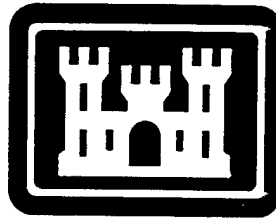


UMCS FEASIBILITY STUDY

ATTACHMENT SECTIONS 8.1 & 8.2 A THRU D

FOR

Fort George G. Meade



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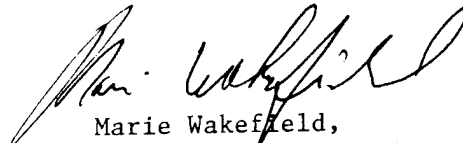


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Acronym Table

| | |
|-------|--------------------------------------------|
| A/C | Air Conditioning |
| AHU | Air Handling Unit |
| BHP | Boiler Horse Power |
| BTU | British Thermal Unit |
| CHW | Chilled Water |
| DHW | Domestic Hot Water |
| DoD | Department of Defense |
| DPW | Department of Public Works |
| DX | Direct Expansion |
| ECIP | Energy Conservation Investment Program |
| ECO | Energy Conservation Opportunity |
| EEAP | Energy Engineering Analysis Program |
| EMCS | Energy Monitoring and Control System |
| EMS | Energy Management System |
| ESA | Energy Savings Analysis |
| gal | Gallon |
| HVAC | Heating, Ventilating, and Air Conditioning |
| HW | Hot Water |
| kW | Kilowatt |
| kWh | Kilowatt Hour |
| LCC | Life Cycle Cost |
| mcf | Thousand Cubic Feet |
| mmBTU | Million BTU |
| OA | Outside Air |
| SIOH | Savings, Inspection and Overhead |
| SIR | Savings to Investment Ratio |
| UMCS | Monitoring and Control System |
| VAV | Variable Air Volume |

ATTACHMENT SECTION 8.1

SCOPE OF SERVICES

CESAM-EN-DM

17 April 1995
rev'd: 12 July 1995

UMCS FEASIBILITY STUDY
FORT MEADE, MARYLAND

GENERAL SCOPE OF WORK
FOR A
LIMITED ENERGY STUDY

Performed as part of the
ENERGY ENGINEERING ANALYSIS PROGRAM (EEAP)

SCOPE OF WORK
FOR A
LIMITED ENERGY STUDY

UMCS FEASIBILITY STUDY, FORT MEADE, MD

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- A - DETAILED SCOPE OF WORK
- B - BUILDINGS INCLUDED IN SURVEY
- C - EXECUTIVE SUMMARY GUIDELINE
- D - REQUIRED DD FORM 1391 DATA

1. BRIEF DESCRIPTION OF WORK: The Architect-Engineer (AE) shall:

1.1 Review for general information the available design, construction, and operation data for the existing Energy Monitoring and Control System (EMCS).

1.2 Perform a limited site survey of selected buildings or facilities to verify construction features, electrical and mechanical equipment, occupancy, and mode of operation for energy analysis.

1.3 Evaluate the technical and economic feasibility of replacing the existing EMCS with a new, distributed-process monitoring and control system (UMCS). The new UMCS would use personal computer (PC) based central operator stations and remote control units as appropriate in the buildings currently served by the existing EMCS.

1.4 Evaluate UMCS application programs (software) for all buildings or facilities using data from similar buildings to determine their energy savings potential and economic feasibility for connection to the new UMCS.

1.5 Provide project documentation for recommended ECOs as detailed herein.

1.6 Prepare a comprehensive report to document all work performed, the results and all recommendations.

2. GENERAL

2.1 The existing Honeywell EMCS was originally installed in 1977. A software upgrade was performed five years ago; field hardware improvements were made in 1982. The existing EMCS is a standalone (monolithic) system. Over the years, mechanical and electrical equipment has become disconnected, losing monitor and control points. Purpose of this study is to evaluate replacement of the existing EMCS with a new, PC-based UMCS, and to evaluate adding new buildings to the UMCS. All buildings shall be prioritized according to simple payback and need.

2.2 The information and analysis outlined herein are considered to be minimum requirements for adequate performance of this study.

2.3 For the purposes of this scope of work, an Energy Conservation Opportunity (ECO) is defined as the application of one or more UMCS energy conservation programs (applications

software) within a particular building or facility. A project is defined as the connection of one or more buildings/facilities to the UMCS or replacement of the existing EMCS.

2.4 The AE shall ensure that all ECO's which shall reduce the energy consumption or cost of operation of the installation have been considered and documented per the detailed scope of work. The ECO's are limited to the standard UEMCS applications listed in TM 5-815-2. A list of UMCS applications programs to be used when evaluating specific buildings or facilities is included in TM 5-815-2, "Energy Monitoring and Control Systems (EMCS)". Some of the applications programs listed in TM 5-815-2 may not be applicable to the specific building or facility being evaluated; in such cases, a statement to that effect is all that is required.

2.5 The study shall include the energy consuming buildings or facilities listed in Annex B. Field work and calculations may be reduced somewhat by building repetition.

2.6 Cost estimates for all UMCS hardware, software, data transmission media (DTM), testing and other required services shall be made using CEHND-SP-90-244-ED-ME, "Energy Monitoring and Control Systems (EMCS), Large and Medium Configurations, Cost Estimating Guidelines", modified to reflect current market conditions. Quotes from the manufacturer of the existing system will be acceptable.

2.7 The "Energy Conservation Investment Program (ECIP) Guidance", described in letter from DAIM-FDF-U, dated 10 Jan 1994 (including current updates) establishes criteria for ECIP projects and shall be used for performing the economic analyses of all ECOs and projects. The program, Life Cycle Cost In Design (LCCID), has been developed for performing life cycle cost calculations in accordance with ECIP guidelines and is referenced in the ECIP Guidance. If any program other than LCCID is proposed for life cycle cost analysis, it must use the mode of calculation specified in the ECIP Guidance. The output must be in the format of the ECIP LCCA summary sheet, and it must be submitted for approval to the Contracting Officer.

2.8 Computer modeling will be used to determine the energy savings of ECOs for typical buildings. The typical buildings are noted in Annex B. The results of these calculations may be applied to buildings which are similar to the typical buildings. This will be done by extrapolating on the basis of floor area. To be considered similar, a building must be essentially identical to the typical building in size, floor plan, mechanical equipment, type of construction, and

occupancy. If a building is identical to a typical building in all respects except the occupancy (e.g. a barracks converted into offices) the building should not be considered similar. In some cases, differences in physical orientation may not allow buildings to be considered similar; it is anticipated that in most cases, physical orientation will not be a significant factor. The requirement to use computer modeling applies only to heated and air-conditioned or air-conditioned-only buildings which exceed 8,000 square feet or heated-only buildings in excess of 20,000 square feet. For buildings that are not covered by this requirement the AE may use spreadsheet or manual calculations based on the standardized energy savings calculations presented in Appendix C (CR82-030) of Naval Facilities Engineering Command document UG-0010, "User's Guide for Single Building Controllers". Modeling will be done using a professionally recognized and proven computer program or programs that integrate architectural features with air-conditioning, heating, lighting and other energy-producing or consuming systems. These programs will be capable of simulating the features, systems, and thermal loads of the building under study. The program will use established weather data files and may perform calculations on a true hour-by-hour basis or may condense the weather files and the number of calculations into several "typical" days per month. The Detailed Scope of Work, Annex A, lists programs that are acceptable to the Contracting Officer. If the AE desires to use a different program, it must be submitted for approval with a sample run, an explanation of all input and output data, and a summary of program methodology and energy evaluation capabilities. The AE shall model 19 different typical occupancy/HVAC combinations for the purpose of developing extrapolation constants. Energy savings will be extrapolated to similar systems using methods developed by the AE which use the equations from CR 82.030 and energy constants from modeling of typical systems. The AE shall calculate building loss coefficients of 60 typical buildings and shall extrapolate the building loss coefficients to the remaining buildings based on occupancy type and floor area.

2.9 Energy conservation opportunities determined to be technically and economically feasible shall be developed into projects acceptable to installation personnel. This may involve combining similar ECOs into larger packages which will qualify for ECIP or FEMP funding, and determining in coordination with installation personnel the appropriate packaging and implementation approach for all feasible ECOs.

2.9.1 Projects which qualify for ECIP funding shall be identified, separately listed, and prioritized by the Savings to Investment Ratio (SIR).

2.9.2 All feasible non-ECIP projects shall be ranked in order of highest to lowest SIR.

2.9.3 At some installations Energy Conservation and Management (ECAM) funding will be used instead of ECIP funding. The criteria for each program is the same. The Director of Public Works will indicate which program is used at this installation. This Scope of Work mentions only ECIP, however, ECAM is also meant.

2.10 Metric Reporting Requirements: In this study, the analyses of the ECOs may be performed using English or Metric units as long as they are consistent throughout the report. The final results of energy savings for individual recommended projects and for the overall study will be reported in units of MegaBTU per year and in MegaWattHours per year. Paragraph 7.6.2 details requirements for the contents of the final submittal.

3. PROJECT MANAGEMENT

3.1 Project Managers. The AE shall designate a project manager to serve as a point of contact and liaison for work required under this contract. Upon award of this contract, the individual shall be immediately designated in writing. The AE's designated project manager shall be approved by the Contracting Officer prior to commencement of work. This designated individual shall be responsible for coordination of work required under this contract. The Contracting Officer will designate a project manager to serve as the Government's point of contact and liaison for all work required under this contract. This individual will be the Government's representative.

3.2 Installation Assistance. The Commanding Officer or authorized representative at the installation will designate an individual to assist the AE in obtaining information and establishing contacts necessary to accomplish the work required under this contract. This individual will be the installation representative.

3.3 Public Disclosures. The AE shall make no public announcements or disclosures relative to information contained or developed in this contract, except as authorized by the Contracting Officer.

3.4 Meetings. Meetings will be scheduled whenever requested by the AE or the Contracting Officer for the resolution of questions or problems encountered in the performance of the work. The AE's project manager and the

Government's representative shall be required to attend and participate in all meetings pertinent to the work required under this contract as directed by the Contracting Officer. These meetings, if necessary, will be in addition to the presentation and review conferences.

3.5 Site Visits, Inspections, and Investigations. The AE shall visit and inspect/investigate the site of the project as necessary and required during the preparation and accomplishment of the work.

3.6 Records

3.6.1 The AE shall provide a record of all significant conferences, meetings, discussions, verbal directions, telephone conversations, etc., with Government representative(s) relative to this contract in which the AE and/or designated representative(s) thereof participated. These records shall be dated and shall identify the contract number, and modification number if applicable, participating personnel, subject discussed and conclusions reached. The AE shall forward to the Contracting Officer within ten calendar days, a reproducible copy of the records.

3.6.2 The AE shall provide a record of requests for and/or receipt of Government-furnished material, data, documents, information, etc., which if not furnished in a timely manner, would significantly impair the normal progression of the work under this contract. The records shall be dated and shall identify the contract number and modification number, if applicable. The AE shall forward to the Contracting Officer within ten calendar days, a reproducible copy of the record of request or receipt of material.

3.7 Interviews. The AE and the Government's representative shall conduct entry and exit interviews with the Director of Public Works before starting work at the installation and after completion of the field work. The Government's representative shall schedule the interviews at least one week in advance.

3.7.1 Entry. The entry interview shall describe the intended procedures for the survey and shall be conducted prior to commencing work at the facility. As a minimum, the interview shall cover the following points:

- a. Schedules.
- b. Names of energy analysts who will be conducting the site survey.

c. Proposed working hours.

d. Support requirements from the Director of Public Works.

3.7.2 Exit. The exit interview shall be held when the field work is essentially complete; it shall briefly describe the items surveyed and probable areas of energy conservation. The interview shall also solicit input and advice from the Director of Public Works.

4. SERVICES AND MATERIALS. All services, materials (except those specifically enumerated to be furnished by the Government), labor, supervision, and travel necessary to perform the work and render the data required under this contract are included in the lump sum price of the contract.

5. PROJECT DOCUMENTATION. All energy conservation opportunities which the AE has considered shall be included in one of the following categories and presented in the report as such:

5.1 ECIP Projects. To qualify as an ECIP project, an ECO, or several ECOs which have been combined, must have a construction cost estimate greater than \$300,000, a Savings to Investment Ratio (SIR) greater than 1.25 and a simple payback period of less than ten years. The overall project and each discrete part of the project shall have an SIR greater than 1.25. All projects meeting the above criteria shall be arranged as specified in paragraph 2.7.1 and shall be provided with programming documentation. Programming documentation shall consist of a DD Form 1391 and life cycle cost analysis (LCCA) summary sheet(s) (with necessary backup data to verify the numbers presented). A life cycle cost analysis summary sheet shall be developed for each ECO and for the overall project when more than one ECO are combined. The energy savings for projects consisting of multiple ECOs must take into account the synergistic effects of the individual ECOs.

5.2 Non-ECIP Projects. Projects which do not meet ECIP criteria with regard to cost estimate, but which have an SIR greater than 1.25 shall be documented. Projects or ECOs in this category shall be arranged as specified in paragraph 2.7.2 and shall be provided with the following documentation: the life cycle cost analysis (LCCA) summary sheet completely filled out, a description of the work to be accomplished, backup data for the LCCA (energy savings calculations and cost estimate), and the simple payback period. The energy savings for projects consisting of multiple ECOs must take into account the synergistic effects of the individual ECOs. In addition these projects shall have the necessary documentation prepared, as required by the Government's representative, for

one of the following categories:

a. Federal Energy Management Program (FEMP) Projects. A FEMP (or O&M Energy) project is one that results in needed maintenance or repair to an existing facility, or replaces a failed or failing existing facility, and also results in energy savings. The criteria are similar to the criteria for ECIP projects, ie, $SIR \geq 1.25$, and simple payback period of less than ten years. Projects with a construction cost estimate up to \$300,000 shall be documented as outlined in par 5.2 above; projects over \$300,000 shall be documented on 1391s. In the FEMP program, a system may be defined as "failed or failing" if it is inefficient or technically obsolete. However, if this strategy is used to justify a proposed project, the equipment to be replaced must have been in use for at least three years.

b. Low Cost/No Cost Projects. These are projects which the Director of Public Works (DPW) can perform using his resources. Documentation shall be as required by the DPW.

5.3 Nonfeasible ECOS. All ECOS which the AE has considered but which are not feasible, shall be documented in the report with reasons and justifications showing why they were rejected.

6. DETAILED SCOPE OF WORK. The Detailed Scope of Work is contained in Annex A.

7. WORK TO BE ACCOMPLISHED.

7.1 Review Data for Existing EMCS. The AE shall review for general information the construction drawings and specifications and the manufacturer's drawings and operations and maintenance manuals for the existing EMCS. This review should acquaint the AE with the details of the hardware and software used in the existing system. Much of the information the AE may need to perform his evaluation will be contained in this data.

7.2 Perform a Limited Site Survey. The AE shall determine, based on the information provided by the installation, which buildings are "typical" and which are "similar" as defined in paragraph 2.8. A limited field survey of all buildings listed in the detailed scope of work shall be conducted to verify and/or adjust the list of "typical" and "similar" buildings. A detailed field investigation will then be made of all "typical" buildings using the outline provided in the detailed scope of work. The AE shall document his site survey on forms developed for the survey and submit these completed forms as part of the report. Testing is not required.

7.3 Evaluate Selected ECOS. The AE shall analyze the ECOS identified in paragraphs 1.3 through 1.4. These ECOS shall be analyzed in detail to determine their feasibility. Savings to Investment Ratios (SIRs) shall be determined using current ECIP guidance. The AE shall provide all data and calculations needed to support the recommended ECO. All assumptions and engineering equations shall be clearly stated. Calculations shall be prepared showing how all numbers in the ECO were figured. Calculations shall be an orderly step-by-step progression from the first assumption to the final number. Descriptions of the products, manufacturers catalog cuts, pertinent drawings and sketches, and input/output summary sheets shall also be included. A life cycle cost analysis summary sheet shall be prepared for each ECO and included as part of the supporting data.

7.4 Combine ECOS Into Recommended Projects. During the Interim Review Conference, as outlined in paragraph 7.6.1, the AE will be advised of the DEH's preferred packaging of recommended ECOS into projects for implementation. Some projects may be a combination of several ECOS, and others may contain only one. These projects will be evaluated and arranged as outlined in paragraphs 5.1, 5.2, and 5.3. Energy savings calculations shall take into account the synergistic effects of multiple ECOS within a project and the effects of one project upon another. The results of this effort will be reported in the Pre-Final Submittal per par 7.6.2.

7.5 Provide Programming or Implementation Documentation. For projects or ECOS developed during this study, complete programming or implementation documentation shall be prepared by the AE.

7.5.1 Programming Documentation. For buildings or projects which meet ECIP criteria and which the installation wants to submit as an ECIP criteria, complete programming documentation shall be prepared. Complete programming documentation consists of the DD Form 1391 with supporting data. These forms shall be separate from the narrative report. They shall be bound similarly to the final report in a manner which will facilitate repeated assembly and disassembly. Forms shall also be provided on floppy disk in ASCII format; blank forms will be provided to the AE by the installation on floppy disk.

7.5.1.1 Military Construction Project Data (DD Form 1391). These documents shall be prepared in accordance with AR 415-15 and the supplemental requirements in Annex B. A complete DD Form 1391 shall be prepared for each project. The form shall include a statement that the project results from an EEAP study. Documents shall be complete as required for submission to higher DA headquarters. These programming

documents will require review and signatures by the proper installation personnel. All documents shall be complete except for required signatures. The installation shall batch the forms into the DD 1391 processor.

7.5.1.2 Implementation Documentation. For feasible projects or ECOs which do not meet ECIP criteria, implementation documentation shall be prepared. Each feasible project or ECO shall be individually packaged, fully documented, and included as a separate section in the volume containing the programming documentation. Each project or ECO shall have a complete description of the work to be done, economic justification, sketches, I/O summary sheets, and other backup data included as a section of the report. The documentation required shall be as determined by the Government's representative. Documentation required will be in the categories listed in paragraph 5.2. For low cost/no cost (operational) projects which the Directorate of Public Works can perform, the following information shall be provided:

- a. Brief description of the project;
- b. Brief description of the reasons for the modification;
- c. Specific instructions for performing the modification;
- d. Estimated dollar and energy savings per year; and
- e. Estimated manhours and labor and material costs. Costs shall be calculated for the current calendar year and so marked. Manhours shall be listed by trade.

Separate sheets for each project showing the above information shall be prepared and included in the report.

7.6 Submittals, Presentations and Reviews. The work accomplished shall be fully documented by a comprehensive report. The report shall have a table of contents and shall be indexed. Tabs and dividers shall clearly and distinctly divide sections, subsections, and appendices. All pages shall be numbered. Names of the persons primarily responsible for the project shall be included. The AE shall give a formal presentation of the interim submittal to installation, command, and other Government personnel. Slides or view graphs showing the results of the study to date shall be used during the presentation. During the presentation, the personnel in attendance shall be given ample opportunity to ask questions and discuss any changes deemed necessary to the study. A review conference will be conducted the same day, following the presentation. Each comment presented at the review

conference will be discussed and resolved or action items assigned. The AE shall provide the comments from all reviewers and written notification of the action taken on each comment to all reviewing agencies within three weeks after the review meeting. It is anticipated that the presentation and review conference will require approximately one working day. The presentation and review conference will be at the installation on the date agreeable to the Director of Public Works, the AE and the Government's representative. The Contracting Officer may require a resubmittal of any document(s), if such document(s) are not approved because they are determined by the Contracting Officer to be inadequate for the intended purpose.

7.6.1 Interim Submittal. An interim report shall be submitted for review after the field survey has been completed and an analysis has been performed on all of the ECOs. The report shall indicate the work which has been accomplished to date, illustrate the methods and justifications of the approaches taken and contain a plan of the work remaining to complete the study. I/O summary sheets and calculations showing energy and dollar dollar savings and SIRs of all ECOs/projects shall be included. A sample implementation document (DD Form 1391, sketches, manufacturer's data, I/O summary sheets, outline specifications, life cycle cost analysis summary sheet and supporting data) for one project will be submitted with this report. The simple payback period of all ECOs/projects shall be calculated and shown in the report. The results of the ECO analyses shall be summarized by lists as follows:

a. All ECOs eliminated from consideration shall be grouped into one listing with reasons for their elimination as discussed in par 5.3.

b. All ECOs which were analyzed shall be grouped into two listings, recommended and non-recommended, each arranged in order of descending SIR. These lists may be subdivided by building or area as appropriate for the study. The AE shall submit the Scope of Work and any modifications to the Scope of Work as an appendix to the report. A narrative summary describing the work and results to date shall be a part of this submittal. At the Interim Submittal and Review Conference, the Government's and AE's representatives shall coordinate with the Director of Public Works to provide the AE with direction for packaging or combining ECOs for programming purposes and also indicate the fiscal year for which the programming or implementation documentation shall be prepared. The survey forms completed during this audit shall be submitted with this report. The survey forms only may be submitted in final form with this submittal. They should be clearly marked at the time of submission that they are to be

retained. They shall be bound in a standard three-ring binder which will allow repeated disassembly and reassembly of the material contained within.

7.6.2 Pre-Final Submittal. The AE shall prepare and submit the Pre-Final report when all sections of the report are complete.

7.6.3 Final Submittal. The AE shall prepare and submit the final report when all sections of the report are 100% complete and all comments from the interim submittal have been resolved. The AE shall submit the Scope of Work for the study and any modifications to the Scope of Work as an appendix to the submittal. The report shall contain a narrative summary of conclusions and recommendations, together with all raw and supporting data, methods used, and sources of information. The report shall integrate all aspects of the study. The recommended projects, as determined in accordance with paragraph 5, shall be presented in order of priority by SIR. The lists of ECOs specified in paragraph 7.6.1 shall also be included for continuity. The final report and all appendices shall be bound in standard three-ring binders which will allow repeated disassembly and reassembly. The final report shall be arranged to include:

a. An Executive Summary to give a brief overview of what was accomplished and the results of this study using graphs, tables and charts as much as possible (See Annex B for minimum requirements).

b. The narrative report describing the problem to be studied, the approach to be used, and the results of this study.

c. Documentation for the recommended projects (includes LCCA Summary Sheets).

d. Appendices to include as a minimum:

- 1) Energy cost development and backup data
- 2) Detailed calculations
- 3) Cost estimates
- 4) Computer printouts (where applicable)
- 5) Scope of Work

ANNEX A

ARCHITECT-ENGINEER SERVICES FOR
ENERGY MONITORING AND CONTROL SYSTEM
AT
FORT MEADE, MARYLAND
DETAILED SCOPE OF WORK

1. GENERAL The AE shall furnish all services, materials, supplies, labor, equipment, investigations, studies, and travel as required in connection with the feasibility study for replacement of an EMCS at Fort Meade, MD. The study generally consists of investigating the economic and technical feasibility of making necessary modifications to connect existing buildings and facilities to a new UMCS, and replacing the existing EMCS with a distributed-process UMCS with sufficient capacity to accommodate future expansion. The buildings and facilities to be included are listed at Annex B of this statement of work.
2. AUTHORIZATION The feasibility study for this project is authorized by memorandum, CEMP-ET, subject: "Energy Engineering Analysis Program (EEAP) - FY95", dated 29 December 1994. The AE shall make reference to this authority in the study.
3. STUDY INSTRUCTIONS If the Design Manuals, Guide Specifications, and/or Project Engineering Instructions do not cover a specific condition in question, the AE shall contact the Contracting Officer before proceeding. If there is a conflict in Engineering Instructions or other reference data, such questions or conflicts should be brought to the attention of the Contracting Officer before proceeding.
4. INSTALLATION REPRESENTATIVE The Installation Representative for this study will be Mr. Richard Styles, Directorate of Public Works, (301) 677-9256.
5. COMPLETION AND PAYMENT SCHEDULE The following schedule shall be used as a guide in approving payments on this contract. The interim report shall be due not later than 180 days after the Authorized Receipt of Order (ARO). The Pre-Final report shall be due not later than 30 days after the interim report review conference. The Final report shall be due not later than 21 days after the Pre-Final review conference.

| <u>MILESTONE</u> | <u>% OF CONTRACT AMOUNT AUTHORIZED FOR PAYMENT</u> |
|---------------------------------------------|--------------------------------------------------------|
| Entry Interview | 10 |
| Completion of Field Work | 25 |
| Receipt of Interim Submittal | 75 |
| Completion of Interim Presentation & Review | 85 |
| Completion of Pre-Final | 95 |

6. METHOD OF PAYMENT

a. Title I. The AE shall prepare and submit to the US Army Engineer District, Baltimore, MD, partial payment estimates on ENG Form 93. All partial payments shall be based on work completed as of the 15th day of the reporting month and shall be submitted to the office of the Contracting Officer by the 18th day of the month. Copy of the ENG Form 93 should be provided to the Project Manager. Payment under this order, for which property or services are provided in a series of partial executions or deliveries, will be made within 30 days after receipt of an invoice which has been properly executed by the AE.

b. Additional Conferences. Payments for furnishing the services of technically qualified representatives to attend additional conferences, when so requested in writing by the Contracting Officer, will be made at a rate per hour for the discipline involved plus travel expenses computed in accordance with the Joint Travel Regulations in effect at the time travel is performed and actual cost of transportation.

7. SIMULATION PROGRAMS Simulation programs acceptable for use in this study are listed below. Any substitute must be submitted and approved as outlined in the basic statement of work.

- a. Building Loads and System Thermodynamics (BLAST)
- b. DOE 2.1D
- c. Carrier Hourly Analysis Program (HAP)
- d. Trane Air-Conditioning Economics (TRACE)

8. COMPUTER PROGRAM A computer program entitled "Life Cycle Costing in Design (LCCID)" is available from the BLAST Support Office in Urbana, Illinois for a nominal fee. This computer program can be used for performing the economic calculations for ECIP and non-ECIP ECOs. The AE is encouraged to obtain and use this computer program. The BLAST Support Office can be contacted at 144 Mechanical Engineering Building, 1206 West Green Street, Urbana, Illinois 61801. The telephone number is

(217) 333-3977 or (800) 842-5278.

9. FACILITY SURVEY

The Architect-Engineer (AE) shall conduct a survey of the buildings and building systems listed by Annex B in accordance with TM 5-815-2 and as described herein. Each building/system shall be observed while in operation. The AE shall coordinate with the DPW POC for entry into the facilities, to include weekends or after regular business hours. The survey shall include and document the following items:

a. Verification of as-builts, occupancy schedules, and equipment listing to the extent applicable for incorporation in the EMCS. Verification shall include recording of equipment data for which documentation was not provided but is appropriate for incorporation in the proposed EMCS.

b. Nameplate information such as manufacturer, horsepower, voltage, current and other required data shall be recorded for each piece of equipment to be included in the system.

c. Obtain information for each existing utility meter to be monitored by the EMCS including manufacturer and model number. The A-E shall determine EMCS interface requirements. Metering for reimbursable customers, as designated by the DPW, shall be included in this scope of work.

d. Preliminary routing and costs for the data transmission media (DTM) between buildings and facilities shall be indicated.

e. The AE shall note any discrepancies for buildings or facilities from the as-built drawings during field investigation. Any suspected asbestos or lead paint locations shall also be noted by the AE. Sampling, testing and abatement are not included in this statement of work.

f. Sketches of the installation of EMCS instrumentation and control devices. Sketches shall include location of the Master Control Room (MCR). Location shall be coordinated with facility operating personnel. Need for intercommunications between the MCR and other offices or installation personnel shall be addressed as part of the electrical cost. Cost for 24-hour environmental conditioning of the MCR shall be included.

10. GOVERNMENT-FURNISHED DATA

a. TM 5-815-2, "Energy Monitoring & Control Systems (EMCS)"

b. AR 415-15, "Army Military Construction Program Development and Execution"

c. AR 415-17, "Cost Estimating for Military Programming"

d. TM 5-785, "Engineering Weather Data"

e. "Architectural and Engineering Instructions (AEI)"

f. "EMCS Guide Specifications

(1) CEGS 13810 - Energy Monitoring and Control System (EMCS) Large Configuration

(2) CEGS 13814 - Building Preparation for Energy Monitoring and Control Systems

(3) CEGS 13945 - Multi-Building Expansion of Energy Monitoring and Control Systems

g. "User Guide for Single Building Controllers", UG-0010

h. "EMCS Cost Estimating Guidelines" CEHND-SP-90-ED-ME (revised)

i. Previous studies, design, construction, and operation data from existing EMCS.

j. Most recent Tri-Service Cost Index.

k. DAIM-FDF-U letter dated 10 January 1994, "Energy Conservation Investment Program (ECIP) Guidance"

l. Building Information Schedule

12. SUBMITTAL DISTRIBUTION

| ORGANIZATION | CORRESPONDENCE | INTERIM & PRE-FINAL | FINAL |
|-----------------------------------------------------------------------------------------------------------------------------------|----------------|------------------------|-------|
| Commander U.S. Army Garrison, Fort Meade ATTN: ANME-PWP (Mr. Styles) Building 219 Fort Meade, MD 20755-5115 | (1) | (3) | (3) |
| Commander U.S. Army Engineer District, Baltimore ATTN: CENAB-EN-MP (Mr. Gross) P.O. Box 1715 Baltimore, MD 21203-1715 | (1) | (3) | (3) |

Commander (1) (1) (1)
U.S. Army Engineer District, Mobile
ATTN: CESAM-EN-DM (Mr. Battaglia)
P.O. Box 2288
Mobile, AL 36628-1000

Commander (1) (3) (1)
U.S. Army Engineer Division, Huntsville
ATTN: HNDED-ME (Mr. Holland)
P.O. Box 1600, West Station
Huntsville, AL 35807

Commander (1) (1)
Fort Lesley J. McNair
ATTN: Mr. Ralph Gibson
Building 42, Code ANEN-IS
Washington, DC 20319-5050
ATTN: Mr. Gibson

Commander (1)*
U.S. Army Corps of Engineers
ATTN: CEMP-ET (Mr. Gentil)
20 Massachusetts Avenue, NW
Washington, D.C. 20314-1000

Commander (1)*
U.S. Army Logistics Evaluation Agency
ATTN: LOEA-PL (Mr. Keath)
New Cumberland Army Depot
New Cumberland, PA 17070-5007

*Copy of the Final executive summary only.

ANNEX B

BUILDINGS INCLUDED IN SURVEY

1. Buildings on Existing EMCS
2. Buildings to Be Added to EMCS

| Col. | Code | Blgd No. | Description | Indiv. Blgd QSF | Envelope | Decks/Roofing | Comments |
|------|-------|----------|------------------------------------------------------------|-----------------|----------|--------------------|-------------------------|
| 1 | 72111 | 3828 | UEPH | 128353 | Block | Metal/Roof | |
| 1 | 81050 | 4550 | Administrative | 123400 | Brick | Concrete/Built Up | |
| 1 | 74021 | 2788 | Commissary | 118000 | Brick | Metal/Membrane | |
| 1 | 72111 | 3801 | UEPH: 3802, 3803, 3804 | 30550 | Block | Concrete/Built Up | Four Similar Buildings |
| 1 | 74053 | 2790 | Main Entrance, Retail | 78343 | Brick | Metal/Built Up | |
| 1 | 72111 | 3827 | UEPH | 88061 | Block | Metal/Built Up | |
| 1 | 81050 | 1978 | Administrative | 43547 | Block | Metal/Built Up | |
| 1 | 74022 | 3330 | Physical Fitness Center | 41900 | Block | Concrete/Built Up | |
| 1 | 72111 | 3478 | UEPH: 3479, 3544, 3545, 3805, 3808, 3807, 3809, 3810, 3811 | 38480 | Block | Concrete/Built Up | Ten Similar Buildings |
| 1 | 73020 | 7100 | Chapel Center Facility | 30503 | Brick | Wood/Shingles/Roof | |
| 1 | 74088 | 3452 | Rec. Center | 27448 | Block | Wood/Built Up | |
| 1 | 81050 | 2234 | Administrative | 25182 | Brick | Wood/Built Up | |
| 1 | 74088 | 909 | Youth Center | 23000 | Brick | Metal/Metal | |
| 1 | 72111 | 2481 | UEPH | 17438 | Block | Concrete/Built Up | |
| 1 | 21920 | 3000 | FE Facility | 10563 | Block | Wood/Built Up | |
| 1 | 73073 | 2789 | Post Office | 8988 | Brick | Metal/Built Up | |
| 1 | 81050 | 378 | Administrative | 8120 | Metal | Metal/Metal | |
| 1 | 82118 | 8481 | Heat Plant | 7718 | Block | Concrete/Built Up | |
| 1 | 82118 | 2251 | Heat Plant | 3534 | Metal | Metal/Metal | |
| 1 | 82118 | 2482 | Heat Plant | 3414 | Block | Metal/Built Up | |
| 2 | 81050 | 1853 | Administrative | 103538 | Brick | Wood/Shingles | |
| 2 | 81050 | 4654 | Administrative | 98730 | Brick | Wood/Shingles | |
| 2 | 81050 | 4215 | Administrative | 74059 | Brick | Wood/Shingles | |
| 2 | 81050 | 4632 | Administrative | 87824 | Brick | Wood/Shingles | |
| 2 | 81050 | 2257 | Administrative | 51712 | Block | Wood/Shingles | |
| 2 | 81050 | 4411 | Administrative | 39379 | Brick | Wood/Shingles | |
| 2 | 81050 | 4216 | Administrative | 37244 | Brick | Wood/Shingles | |
| 2 | 17115 | 4700 | Band Training Facility | 36819 | Wood | Wood/Roof | |
| 2 | 81050 | 4217 | Administrative | 34548 | Brick | Wood/Shingles | |
| 2 | 53020 | 2480 | Laboratory | 34144 | Block | Concrete/Built Up | |
| 2 | 72410 | 4705 | Officers Qtrs, Incl. 4707, 4708 | 24850 | Block | Concrete/Built Up | Three Similar Buildings |
| 2 | 74043 | 5800 | Coen Dining, Officer | 23552 | Brick | Metal/Built Up | |
| 2 | 74088 | 9810 | Rec. Center | 22287 | Block | Metal/Built Up | |
| 2 | 74047 | 370 | Coen Dining, NCO | 19533 | Block | Wood/Built Up | |
| 2 | 81050 | 4432 | Administrative | 18640 | Block | Concrete/Built Up | |
| 2 | 74022 | 5830 | Skill Development Center | 18300 | Block | Metal/Built Up | |
| 2 | 44225 | 2484 | Medical Supply Warehouse | 18185 | Metal | Metal/Metal | |
| 2 | 72210 | 3829 | Enlisted Personnel Dining | 18905 | Block | Metal/Metal | |
| 2 | 72410 | 4703 | Officers Qtrs, Incl. 4704, 4717, 4720, 4721 | 14873 | Brick | Concrete/Built Up | Five Similar Buildings |
| 2 | 81050 | 4651 | Administrative | 13614 | Brick | Wood/Shingles | |
| 2 | 74030 | 5800 | Golf Clubhouse | 12800 | Brick | Wood/Shingles | |
| 2 | 44220 | 1978 | Warehouse | 11724 | Block | Metal/Built Up | |
| 2 | 21210 | 2220 | Guided Missile Maintenance Facility | 11520 | Block | Metal/Built Up | |
| 2 | 74088 | 4537 | Exchange Service Outlet | 11440 | Block | Wood/Shingles | |
| 2 | 81050 | 383 | Administrative | 10368 | Block | Wood/Roof | |
| 2 | 73017 | 4419 | Post Chapel | 10290 | Brick | Wood/Shingles | |
| 2 | 54010 | 8472 | Dental Clinic | 10000 | Block | Wood/Built Up | |
| 2 | 73017 | 3465 | Post Chapel | 9587 | Block | Wood/Built Up | |
| 2 | 74041 | 4418 | Library | 7953 | Block | Gypsum/Shingles | |
| 2 | 74023 | 4471 | ACAP/Credit Union | 7248 | Block | Wood/Shingles | |
| 2 | 74078 | 4431 | Theater w/ Dressing Room | 5812 | Brick | Wood/Shingles | |
| 2 | 21410 | 3486 | ORG Vehicle Maintenance Shop | 4884 | Block | Wood/Roof | |
| 2 | 21410 | 3485 | ORG Vehicle Maintenance Shop | 4864 | Block | Wood/Roof | |
| 2 | 74052 | 4660 | Exchange Service Station | 4174 | Block | Wood/Built Up | |
| 2 | 14123 | 3477 | Battalion Headquarters Building | 3504 | Block | Gypsum/Built Up | |
| 2 | 14133 | 3478 | Battalion Headquarters Building | 3344 | Block | Concrete/Built Up | |
| 2 | 74058 | 4675 | Exchange Service Outlet | 1710 | Metal | Metal/Metal | |

720/84

270/212

305/948

374/247

5304

148 784

| | | | | | | |
|---|-------|------|-----------------------------|-------|----------|-----------------|
| 3 | 74085 | 340 | Marine Support office | 31720 | Wood | Wood/Shingle |
| 3 | 74032 | 2793 | Guest Housing | 28248 | Concrete | Wood/Shingle |
| 3 | 61080 | 2282 | Administrative R&D | 22796 | Wood | Gypsum/Build Up |
| 3 | 17180 | 504 | Training Aide Center | 20580 | Wood | Wood/Shingle |
| 3 | 21420 | 2253 | DS Vehicle Maintenance Shop | 18912 | Block | Wood/Shingle |
| 3 | 61090 | 2501 | Administrative | 14764 | Wood | Wood/Shingles |
| 3 | 61090 | 2212 | Administrative | 9058 | Wood | Wood/Shingles |
| 3 | 61090 | 2812 | Administrative | 4720 | Wood | Wood/Shingle |

55 buildings 148,784

ATTACHMENT SECTION 8.2

BUILDING ENVELOPE,

EQUIPMENT SCHEDULE, PHOTOGRAPHS

AND ESA/EZDOE OUTPUT

ATTACHMENT SECTION 8.2A

BUILDINGS 370 TO 2490

**FT. MEADE, MARYLAND
EQUIPMENT SCHEDULE**

BUILDING NO. 370

Page 1 of 1

| EQUIPMENT | SYSTEM NUMBER | | | | | | | |
|------------------------------|----------------------------------|-------|-------|-------|--------|----------|---|---|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| COOLING: | | | | | | | | |
| Equipment Name | AHU-1 | AHU-2 | AHU-3 | AHU-4 | BOILER | DX COND. | | |
| Type of Cooling | 1 | 1 | 1 | 1 | | 1 | | |
| Air Side | 1 | 1 | 1 | 1 | | | | |
| Location in Building | | | | | | | | |
| Area Sq. Feet | 6,500 | 2,720 | 2,590 | 6,150 | | | | |
| Supply CFM | 8,000 | 3,000 | 2,500 | 8,000 | | | | |
| Supply Fan HP | 5 | 1 | 1 | 5 | | | | |
| O.A. CFM or % | 20% | 20% | 20% | 20% | | | | |
| Return CFM | | | | | | | | |
| Return Fan HP | | | | | | | | |
| Chiller Tonnage | | | | | | | | |
| Tower or Condenser Fan HP | | | | | | 40 | | |
| Condenser Pump HP | | | | | | | | |
| Chilled Water Pump HP | | | | | | | | |
| HEATING: | | | | | | | | |
| Type of Heating | 2 | 2 | 2 | 2 | 2 | | | |
| Source | | | | | 1 | | | |
| MBTUH | | | | | 2520 | | | |
| Hot Water Pump HP | | | | | | | | |
| Condensate Pump HP | | | | | | | | |
| ADDITIONAL: | | | | | | | | |
| Aux. HP Cooling | | | | | | | | |
| Aux. HP Heating | | | | | | | | |
| Operating Schedule Hrs./Week | | | | | | | | |
| Type of Cooling | Type of Heating | | | | | | | |
| (1) Air Cooled DX | (1) Boiler Hot Water | | | | | | | |
| (2) Water Cooled DX | (2) Boiler Steam | | | | | | | |
| (3) Air Cooled Chiller | (3) Steam to Hot Water Converter | | | | | | | |
| Air Side | Heating Source | | | | | | | |
| (1) Single Zone | (1) Natural Gas | | | | | | | |
| (2) Multi-Zone | (2) Central Plant Steam | | | | | | | |
| (3) VAV | (3) Central Plant Hot Water | | | | | | | |
| | (4) Furnace | | | | | | | |
| | (4) Oil | | | | | | | |
| | (5) Electric | | | | | | | |

EMCS Annual Energy Savings Summary Report

```

=====
Base: FTMEADE
Building: 370
Case: 1
Description:
-----
Fuel Type: Natural gas (methane)
Heating Value: 1,031 Btu/cf
=====
    
```

Caution

```

=====
The ESA program makes no attempt to exclude incompatible strategies.
It is the user's responsibility to select all appropriate strategies.
=====
    
```

Annual Energy Savings Table for Single Zone AHU

```

=====
Description: AHU-1
=====
Strategy                MBtu/yr      kWh/yr      kW   mh/yr
=====
Day/Night Setback       119.081      387         0.0   0
Vent/Recirculation      12.697       0           0.0   0
Run Time Recording      0.000       0           0.0   2
Safety Alarm            0.000       0           0.0   2
-----
Subtotals                131.779      387         0.0   4
Heating Value /         1,031 Btu/cf
=====
Totals                  127,816     387         0.0   4
                        cf /yr      kWh/yr      kW   mh/yr
=====
    
```

Annual Energy Savings Table for Single Zone AHU

| Description: AHU-2 | | | | |
|--------------------|--------------|--------|-----|-------|
| Strategy | MBtu/yr | kWh/yr | kW | mh/yr |
| Day/Night Setback | 49.831 | 162 | 0.0 | 0 |
| Vent/Recirculation | 4.761 | 0 | 0.0 | 0 |
| Run Time Recording | 0.000 | 0 | 0.0 | 2 |
| Safety Alarm | 0.000 | 0 | 0.0 | 2 |
| ----- | | | | |
| Subtotals | 54.592 | 162 | 0.0 | 4 |
| Heating Value / | 1,031 Btu/cf | | | |
| ===== | | | | |
| Totals | 52,951 | 162 | 0.0 | 4 |
| | cf /yr | kWh/yr | kW | mh/yr |

Annual Energy Savings Table for Single Zone AHU

| Description: AHU-3 | | | | |
|--------------------|--------------|--------|-----|-------|
| Strategy | MBtu/yr | kWh/yr | kW | mh/yr |
| Day/Night Setback | 47.449 | 154 | 0.0 | 0 |
| Vent/Recirculation | 3.968 | 0 | 0.0 | 0 |
| Run Time Recording | 0.000 | 0 | 0.0 | 2 |
| Safety Alarm | 0.000 | 0 | 0.0 | 2 |
| ----- | | | | |
| Subtotals | 51.417 | 154 | 0.0 | 4 |
| Heating Value / | 1,031 Btu/cf | | | |
| ===== | | | | |
| Totals | 49,871 | 154 | 0.0 | 4 |
| | cf /yr | kWh/yr | kW | mh/yr |

Annual Energy Savings Table for Single Zone AHU

| Description: AHU-4 | | | | |
|--------------------|-------------------|---------------|-----------|------------|
| Strategy | MBtu/yr | kWh/yr | kW | mh/yr |
| Day/Night Setback | 112.669 | 366 | 0.0 | 0 |
| Vent/Recirculation | 12.697 | 0 | 0.0 | 0 |
| Run Time Recording | 0.000 | 0 | 0.0 | 2 |
| Safety Alarm | 0.000 | 0 | 0.0 | 2 |
| Subtotals | 125.366 | 366 | 0.0 | 4 |
| Heating Value / | 1,031 Btu/cf | | | |
| Totals | 121,597 cf /yr | 366 kWh/yr | 0.0 kW | 4 mh/yr |

Annual Energy Savings Table for Air Cooled DX Compressor

| Description: C-1 | | | | |
|----------------------|------------------|-----------------|-----------|------------|
| Strategy | MBtu/yr | kWh/yr | kW | mh/yr |
| Scheduled Start/Stop | 0.000 | 6,279 | 0.0 | 0 |
| Demand Limiting | 0.000 | 0 | 2.4 | 0 |
| Run Time Recording | 0.000 | 0 | 0.0 | 2 |
| Safety Alarm | 0.000 | 0 | 0.0 | 2 |
| Totals | 0.000 MBtu/yr | 6,279 kWh/yr | 2.4 kW | 4 mh/yr |

EMCS Annual Energy Savings for Building 370

| Description | Value | Units |
|-----------------------------|---------|--------|
| Natural gas (methane) | 352,235 | cf /yr |
| Electrical Energy | 7,349 | kWh/yr |
| Electrical Demand Reduction | 2.4 | kW |
| Labor Savings | 20 | mh/yr |

FT. MEADE, MARYLAND

Building: 375

Square feet 8,120

| Exterior Wall | |
|-----------------|-------------|
| Components | R-Value |
| Outside Surface | 0.17 |
| Metal Siding | 0.00 |
| 3" Insulation | 8.00 |
| Gyp Board | 0.56 |
| Inside Surface | 0.68 |
| | |
| | |
| | |
| Total R-Value | 9.41 |
| Total U-Value | 0.11 |

| Exterior Roof | |
|-----------------|--------------|
| Components | R-Value |
| Outside Surface | 0.17 |
| Metal Roof | 0.00 |
| 3" Insulation | 11.00 |
| Air Space | 1.10 |
| Acoustical Tile | 1.89 |
| Inside Surface | 0.61 |
| | |
| | |
| Total R-Value | 14.77 |
| Total U-Value | 0.07 |

| Calculated Total Area | |
|------------------------------|------|
| No. of Floors | 1 |
| Avg. Floor to Floor Height | 16 |
| No. of Basement Levels | |
| Gross Floor Area | 8120 |
| Roof Area | 8120 |
| Estimated Infiltration (cfm) | 1000 |
| Gross Wall Area | 7680 |
| Door Area | 1000 |
| Gross Window Area | 300 |
| Other | |
| Net Wall Area | 6380 |

| Window and Door | |
|-----------------------------|---------|
| | U-Value |
| Window Single Pane W/Storm | |
| Window Single Pane Wo/Storm | 1.00 |
| Window Double Pane | |
| Skylight | |
| Glass Block | |
| Other | |
| Door Type 1 | 1.00 |
| Door Type 2 | |
| Door Type 3 | |

$$U_oA_o = (6380 \times 0.11) + (8120 \times 0.07) + (300 \times 1.0) + (1000 \times 1.0) = 2570.2$$

**FT. MEADE, MARYLAND
EQUIPMENT SCHEDULE**

BUILDING NO. 375

Page 1 of 1

| EQUIPMENT | SYSTEM NUMBER | | | | | | | |
|------------------------------|----------------------------------|-----------|---|---|---|---|---|---|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| Equipment Name | Furnace | A/C Unit | | | | | | |
| COOLING: | | | | | | | | |
| Type of Cooling | | 1 | | | | | | |
| Air Side | | 1 | | | | | | |
| Location in Building | | Mail Room | | | | | | |
| Area Sq. Feet | | 3200 | | | | | | |
| Supply CFM | 5460 | 3200 | | | | | | |
| Supply Fan HP | 5 | 1 1/2 | | | | | | |
| O. A. CFM or % | | 0% | | | | | | |
| Return CFM | | | | | | | | |
| Return Fan HP | | | | | | | | |
| Chiller Tonnage | | 7 1/2 | | | | | | |
| Tower or Condenser Fan HP | | | | | | | | |
| Condenser Pump HP | | | | | | | | |
| Chilled Water Pump HP | | | | | | | | |
| HEATING: | | | | | | | | |
| Type of Heating | 4 | | | | | | | |
| Source | 1 | | | | | | | |
| MBTUH | 375/300 | | | | | | | |
| Hot Water Pump HP | | | | | | | | |
| Condensate Pump HP | | | | | | | | |
| ADDITIONAL: | | | | | | | | |
| Aux. HP Cooling | | | | | | | | |
| Aux. HP Heating | | | | | | | | |
| Operating Schedule Hrs./Week | | | | | | | | |
| Type of Cooling | Type of Heating | | | | | | | |
| (1) Air Cooled DX | (1) Boiler Hot Water | | | | | | | |
| (2) Water Cooled DX | (2) Boiler Steam | | | | | | | |
| (3) Air Cooled Chiller | (3) Steam to Hot Water Converter | | | | | | | |
| Air Side | Heating Source | | | | | | | |
| (1) Single Zone | (1) Natural Gas | | | | | | | |
| (2) Multi-Zone | (2) Central Plant Steam | | | | | | | |
| (3) VAV | (3) Central Plant Hot Water | | | | | | | |
| | (4) Oil | | | | | | | |
| | (5) Electric | | | | | | | |

EMCS Annual Energy Savings Summary Report

```

=====
Base: FTMEADE
Building: 375
Case: 1
Description: MAIL ROOM AND WAREHOUSE
-----
Fuel Type: Natural gas (methane)
Heating Value: 1,031 Btu/cf
=====
    
```

Caution

```

=====
The ESA program makes no attempt to exclude incompatible strategies.
It is the user's responsibility to select all appropriate strategies.
=====
    
```

Annual Energy Savings Table for Single Zone DX-A/C

```

=====
Description: OFFICE A/C UNIT
=====
Strategy                MBtu/yr      kWh/yr      kW   mh/yr
=====
Scheduled Start/Stop    0.000        622         0.0   0
Run Time Recording      0.000         0           0.0   2
Safety Alarm            0.000         0           0.0   2
=====
Totals                  0.000        622         0.0   4
MBtu/yr                kWh/yr      kW   mh/yr
=====
    
```

Annual Energy Savings Table for Direct Fired Furnace

```

=====
Description: BLDG H&V FORCED AIR FURNACE
=====
Strategy                MBtu/yr      kWh/yr      kW   mh/yr
=====
Day/Night Setback      81.600         0           0.0   0
Run Time Recording      0.000         0           0.0   2
Safety Alarm            0.000         0           0.0   2
-----
Subtotals               81.600         0           0.0   4
Heating Value /        1,031 Btu/cf
-----
Totals                 79,146         0           0.0   4
cf /yr                kWh/yr      kW   mh/yr
=====
    
```

Annual Energy Savings Table for Lighting Control

| Description: BLDG LIGHTING | | | | |
|----------------------------|---------|--------|-----|-------|
| Strategy | MBtu/yr | kWh/yr | kW | mh/yr |
| Lighting Control | 0.000 | 6,864 | 0.0 | 0 |
| Totals | 0.000 | 6,864 | 0.0 | 0 |
| | MBtu/yr | kWh/yr | kW | mh/yr |

EMCS Annual Energy Savings for Building 375

| Description | Value | Units |
|-----------------------------|--------|--------|
| Natural gas (methane) | 79,146 | cf /yr |
| Electrical Energy | 7,486 | kWh/yr |
| Electrical Demand Reduction | 0.0 | kW |
| Labor Savings | 8 | mh/yr |

FT. MEADE, MARYLAND

Building: 393

Square feet 10440

| Exterior Wall | |
|-----------------|-------------|
| Components | R-Value |
| Outside Surface | 0.17 |
| 8" CMU | 1.04 |
| 2" Air Space | 0.98 |
| 3/8" Sheetrock | 0.32 |
| 1/4" Wall Board | 0.06 |
| Inside Surface | 0.68 |
| | |
| | |
| Total R-Value | 3.25 |
| Total U-Value | 0.31 |

| Exterior Roof | |
|-------------------------|-------------|
| Components | R-Value |
| Outside Surface | 0.17 |
| Built-up Roofing | 0.33 |
| Wood Deck | 0.93 |
| 12" Air Space | 0.98 |
| Acoustical Tile Ceiling | 1.89 |
| Inside Surface | 0.61 |
| | |
| | |
| Total R-Value | 4.91 |
| Total U-Value | 0.20 |

| Calculated Total Area | |
|------------------------------|-------|
| No. of Floors | 1 |
| Avg. Floor to Floor Height | 11.5 |
| No. of Basement Levels | 0 |
| Gross Floor Area | 10440 |
| Roof Area | 10440 |
| Estimated Infiltration (cfm) | 1400 |
| Gross Wall Area | 5208 |
| Door Area | 126 |
| Gross Window Area | 768 |
| Other | |
| Net Wall Area | 4314 |

| Window and Door | |
|-----------------------------|---------|
| | U-Value |
| Window Single Pane W/Storm | 0.60 |
| Window Single Pane Wo/Storm | |
| Window Double Pane | |
| Skylight | |
| Glass Block | |
| Other | |
| Door Type 1 | 1.00 |
| Door Type 2 | |
| Door Type 3 | |

$$UoAo = (4314 \times 0.31) + (10440 \times 0.2) + (126 \times 1.0) + (768 \times 0.6) = 4012$$

**FT. MEADE, MARYLAND
EQUIPMENT SCHEDULE**

BUILDING NO. 393

Page 1 of 1

| EQUIPMENT | | SYSTEM NUMBER | | | | | | | | | | | | | |
|------------------------------|--|-----------------------------|---------|---|---|---|----------------------------------|---|---|--|------------------------|--|--|--|--|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | | | |
| Equipment Name | | Furnace | DX Cond | | | | | | | | | | | | |
| COOLING: | | | | | | | | | | | | | | | |
| Type of Cooling | | 1 | 1 | | | | | | | | | | | | |
| Air Side | | 1 | | | | | | | | | | | | | |
| Location in Building | | | | | | | | | | | | | | | |
| Area Sq. Feet | | 10440 | | | | | | | | | | | | | |
| Supply CFM | | 12000 | | | | | | | | | | | | | |
| Supply Fan HP | | 5 | | | | | | | | | | | | | |
| O.A. CFM or % | | 4500 | | | | | | | | | | | | | |
| Return CFM | | | | | | | | | | | | | | | |
| Return Fan HP | | | | | | | | | | | | | | | |
| Chiller Tonnage | | | 46 | | | | | | | | | | | | |
| Tower or Condenser Fan HP | | | | | | | | | | | | | | | |
| Condenser Pump HP | | | | | | | | | | | | | | | |
| Chilled Water Pump HP | | | | | | | | | | | | | | | |
| HEATING: | | | | | | | | | | | | | | | |
| Type of Heating | | 4 | | | | | | | | | | | | | |
| Source | | 1 | | | | | | | | | | | | | |
| MBTUH | | | | | | | | | | | | | | | |
| Hot Water Pump HP | | | | | | | | | | | | | | | |
| Condensate Pump HP | | | | | | | | | | | | | | | |
| ADDITIONAL: | | | | | | | | | | | | | | | |
| Aux. HP Cooling | | | | | | | | | | | | | | | |
| Aux. HP Heating | | | | | | | | | | | | | | | |
| Operating Schedule Hrs./Week | | | | | | | | | | | | | | | |
| | | Type of Cooling | | | | | | | | | Type of Heating | | | | |
| (1) Air Cooled DX | | (4) Water Cooled Chiller | | | | | (1) Boiler Hot Water | | | | (4) Furnace | | | | |
| (2) Water Cooled DX | | (5) Central Plant Supplied | | | | | (2) Boiler Steam | | | | (4) Oil | | | | |
| (3) Air Cooled Chiller | | (6) Other | | | | | (3) Steam to Hot Water Converter | | | | (5) Electric | | | | |
| | | Air Side | | | | | | | | | Heating Source | | | | |
| (1) Single Zone | | (4) VAV w/ Reheat | | | | | (1) Natural Gas | | | | | | | | |
| (2) Multi-Zone | | (5) Constant Volume Reheat | | | | | (2) Central Plant Steam | | | | | | | | |
| (3) VAV | | (6) Heating and Ventilating | | | | | (3) Central Plant Hot Water | | | | | | | | |

EMCS Annual Energy Savings Summary Report

```

=====
Base: FTMEADE
Building: 393
Case: 1
Description:
=====

```

```

-----
Fuel Type: Natural gas (methane)
Heating Value: 1,031 Btu/cf
=====

```

Caution

```

=====
The ESA program makes no attempt to exclude incompatible strategies.
It is the user's responsibility to select all appropriate strategies.
=====

```

Annual Energy Savings Table for Single Zone AHU

```

=====
Description: F-1
=====

```

| Strategy | MBtu/yr | kWh/yr | kW | mh/yr |
|--------------------|-------------------|---------------|-----------|------------|
| Day/Night Setback | 282.955 | 919 | 0.0 | 0 |
| Vent/Recirculation | 48.249 | 0 | 0.0 | 0 |
| Run Time Recording | 0.000 | 0 | 0.0 | 2 |
| Safety Alarm | 0.000 | 0 | 0.0 | 2 |
| Subtotals | 331.204 | 919 | 0.0 | 4 |
| Heating Value / | 1,031 Btu/cf | | | |
| Totals | 321,245 cf /yr | 919 kWh/yr | 0.0 kW | 4 mh/yr |

Annual Energy Savings Table for Air Cooled DX Compressor

```

=====
Description: C-1
=====
Strategy                MBtu/yr      kWh/yr      kW   mh/yr
=====
Scheduled Start/Stop    0.000      3,434      0.0   0
Optimum Start/Stop     0.000      0          0.0   0
  Duty Cycling         0.000      2,328      0.0   0
  Demand Limiting     0.000      0          0.7   0
Run Time Recording     0.000      0          0.0   2
  Safety Alarm        0.000      0          0.0   2
=====
Totals                  0.000      5,762      0.7   4
                    MBtu/yr      kWh/yr      kW   mh/yr
=====
    
```

Annual Energy Savings Table for Lighting Control

```

=====
Description: Lighting
=====
Strategy                MBtu/yr      kWh/yr      kW   mh/yr
=====
Lighting Control        0.000      52,416      0.0   0
=====
Totals                  0.000      52,416      0.0   0
                    MBtu/yr      kWh/yr      kW   mh/yr
=====
    
```

EMCS Annual Energy Savings for Building 393

```

=====
Description                Value      Units
=====
Natural gas (methane)     321,245   cf /yr
Electrical Energy         59,097   kWh/yr
Electrical Demand Reduction 0.7      kW
Labor Savings              8        mh/yr
=====
    
```

FT. MEADE, MARYLAND

Building: 504

Square feet 20,580

| Exterior Wall | |
|-----------------|-------------|
| Components | R-Value |
| Outside Surface | 0.17 |
| Vinyl Siding | 0.44 |
| 1" Insulation | 6.00 |
| Wood Siding | 0.93 |
| Air Space | 1.10 |
| Plaster | 0.56 |
| Inside Surface | 0.68 |
| | |
| Total R-Value | 9.88 |
| Total U-Value | 0.10 |

| Exterior Roof | |
|-----------------|--------------|
| Components | R-Value |
| Outside Surface | 0.17 |
| Shingles | 0.44 |
| Wood Deck | 0.93 |
| Air Space | 1.10 |
| Insulation | 11.00 |
| Gyp Board | 0.56 |
| Inside Surface | 0.61 |
| | |
| Total R-Value | 14.81 |
| Total U-Value | 0.07 |

| Calculated Total Area | |
|------------------------------|-------|
| No. of Floors | 1 |
| Avg. Floor to Floor Height | 9 |
| No. of Basement Levels | |
| Gross Floor Area | 20580 |
| Roof Area | 20580 |
| Estimated Infiltration (cfm) | 3100 |
| Gross Wall Area | 15650 |
| Door Area | 126 |
| Gross Window Area | 891 |
| Other | |
| Net Wall Area | 14633 |

| Window and Door | |
|-----------------------------|---------|
| | U-Value |
| Window Single Pane W/Storm | 0.60 |
| Window Single Pane Wo/Storm | |
| Window Double Pane | |
| Skylight | |
| Glass Block | |
| Other | |
| Door Type 1 | 1.00 |
| Door Type 2 | |
| Door Type 3 | |

$$U_oA_o = (14633 \cdot 0.1) + (20580 \cdot 0.07) + (891 \cdot 0.6) + (126 \cdot 1.0) = 3564.5$$

**FT. MEADE, MARYLAND
EQUIPMENT SCHEDULE**

BUILDING NO. 504

Page 1 of 1

| EQUIPMENT | SYSTEM NUMBER | | | | | | | |
|------------------------------|-----------------------------|----------------------------------|---|---|---|---|---|---|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| Equipment Name | Boiler | Unit Htrs | | | | | | |
| COOLING: | | | | | | | | |
| Type of Cooling | | | | | | | | |
| Air Side | | | | | | | | |
| Location in Building | | | | | | | | |
| Area Sq. Feet | | | | | | | | |
| Supply CFM | | | | | | | | |
| Supply Fan HP | | 2 | | | | | | |
| O.A. CFM or % | | | | | | | | |
| Return CFM | | | | | | | | |
| Return Fan HP | | | | | | | | |
| Chiller Tonnage | | | | | | | | |
| Tower or Condenser Fan HP | | | | | | | | |
| Condenser Pump HP | | | | | | | | |
| Chilled Water Pump HP | | | | | | | | |
| HEATING: | | | | | | | | |
| Type of Heating | 2 | | | | | | | |
| Source | 1 | 2 | | | | | | |
| MBTUH | 3197/1965 | | | | | | | |
| Hot Water Pump HP | | | | | | | | |
| Condensate Pump HP | 1/3 | | | | | | | |
| ADDITIONAL: | | | | | | | | |
| Aux. HP Cooling | | | | | | | | |
| Aux. HP Heating | | | | | | | | |
| Operating Schedule Hrs./Week | | | | | | | | |
| Type of Cooling | | Type of Heating | | | | | | |
| (1) Air Cooled DX | (4) Water Cooled Chiller | (1) Boiler Hot Water | | | | | | |
| (2) Water Cooled DX | (5) Central Plant Supplied | (2) Boiler Steam | | | | | | |
| (3) Air Cooled Chiller | (6) Other | (3) Steam to Hot Water Converter | | | | | | |
| Air Side | | Heating Source | | | | | | |
| (1) Single Zone | (4) VAV w/ Reheat | (1) Natural Gas | | | | | | |
| (2) Multi-Zone | (5) Constant Volume Reheat | (2) Central Plant Steam | | | | | | |
| (3) VAV | (6) Heating and Ventilating | (3) Central Plant Hot Water | | | | | | |
| | | (4) Oil | | | | | | |
| | | (5) Electric | | | | | | |

EMCS Annual Energy Savings Summary Report

```

=====
Base: FTMEADE
Building: 504
Case: 1
Description: TRAINING AIDE CENTER
-----
Fuel Type: Natural gas (methane)
Heating Value: 1,031 Btu/cf
=====
    
```

Caution

```

=====
The ESA program makes no attempt to exclude incompatible strategies.
It is the user's responsibility to select all appropriate strategies.
=====
    
```

Annual Energy Savings Table for Steam Unit Heater

```

=====
Description: STEAM UNIT HEATERS
=====
Strategy                MBtu/yr      kWh/yr      kW   mh/yr
=====
Day/Night Setback       134.058      0           0.0   0
Run Time Recording       0.000        0           0.0   2
Safety Alarm             0.000        0           0.0   2
-----
Subtotals                 134.058      0           0.0   4
Heating Value /         1,031 Btu/cf
=====
Totals                    130,027      0           0.0   4
                        cf /yr      kWh/yr      kW   mh/yr
=====
    
```

Annual Energy Savings Table for Steam Radiation

| Description: STEAM RADIATION | | | | |
|------------------------------|------------------|-------------|-----------|------------|
| Strategy | MBtu/yr | kWh/yr | kW | mh/yr |
| Day/Night Setback | 69.102 | 0 | 0.0 | 0 |
| Run Time Recording | 0.000 | 0 | 0.0 | 2 |
| Safety Alarm | 0.000 | 0 | 0.0 | 2 |
| Subtotals | 69.102 | 0 | 0.0 | 4 |
| Heating Value / | 1,031 Btu/cf | | | |
| Totals | 67,024 cf /yr | 0 kWh/yr | 0.0 kW | 4 mh/yr |

Annual Energy Savings Table for Lighting Control

| Description: LIGHTING | | | | |
|-----------------------|------------------|------------------|-----------|------------|
| Strategy | MBtu/yr | kWh/yr | kW | mh/yr |
| Lighting Control | 0.000 | 52,416 | 0.0 | 0 |
| Totals | 0.000 MBtu/yr | 52,416 kWh/yr | 0.0 kW | 0 mh/yr |

EMCS Annual Energy Savings for Building 504

| Description | Value | Units |
|-----------------------------|---------|--------|
| Natural gas (methane) | 197,051 | cf /yr |
| Electrical Energy | 52,416 | kWh/yr |
| Electrical Demand Reduction | 0.0 | kW |
| Labor Savings | 8 | mh/yr |

FT. MEADE, MARYLAND

Building: 909

Square feet 23,000

| Exterior Wall | |
|------------------------|--------------|
| Components | R-Value |
| Outside Surface | 0.17 |
| Brick | 0.44 |
| 1" Insulation Rigid | 6.00 |
| Concrete Block | 1.72 |
| 3 1/2" Batt Insulation | 11.00 |
| Inside Surface | 0.68 |
| | |
| | |
| Total R-Value | 20.01 |
| Total U-Value | 0.05 |

| Exterior Roof | |
|---------------------|--------------|
| Components | R-Value |
| Outside Surface | 0.17 |
| Metal Roof | 0.00 |
| 2" Rigid Insulation | 12.00 |
| Air Space | 1.10 |
| 8" Batt Insulation | 19.00 |
| Inside Surface | 0.61 |
| | |
| | |
| Total R-Value | 32.88 |
| Total U-Value | 0.03 |

| Calculated Total Area | |
|------------------------------|-------|
| No. of Floors | 1 |
| Avg. Floor to Floor Height | 21 |
| No. of Basement Levels | |
| Gross Floor Area | 23000 |
| Roof Area | 23000 |
| Estimated Infiltration (cfm) | |
| Gross Wall Area | 15640 |
| Door Area | 190 |
| Gross Window Area | 910 |
| Other | |
| Net Wall Area | 14540 |

| Window and Door | |
|-----------------------------|---------|
| | U-Value |
| Window Single Pane W/Storm | |
| Window Single Pane Wo/Storm | |
| Window Double Pane | 0.55 |
| Skylight | |
| Glass Block | 0.10 |
| Other | |
| Door Type 1 | 1.00 |
| Door Type 2 | 0.60 |
| Door Type 3 | |



FT. MEADE, MARYLAND
EQUIPMENT SCHEDULE

| EQUIPMENT | SYSTEM NUMBER | | | | | | | |
|------------------------------|-----------------------------|--------------|--------------|--------------|----------------------------------|------------------|---|---|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| EQUIPMENT Name | ACC-1 | ACC-2 | ACC-3 | ACC-4 | Boiler | Converter | | |
| COOLING: | | | | | | | | |
| Type of Cooling | 1 | 1 | 1 | 1 | | | | |
| Air Side | 1 | 1 | 1 | 1 | | | | |
| Location in Building | Gym | Lobby | Games/Office | Classrooms | | | | |
| Area Sq. Feet | 6350 | 4050 | 2500 | 2750 | | | | |
| Supply CFM | 9200 | 8900 | 2790 | 3145 | | | | |
| Supply Fan HP | 7.5 | 7.5 | 3 | 3 | | | | |
| O.A. CFM or % | 3250 | 1000 | 600 | 750 | | | | |
| Return CFM | | | | | | | | |
| Return Fan HP | | | | | | | | |
| Chiller Tonnage | 35 | 25 | 8 | 11 | | | | |
| Tower or Condenser Fan HP | 4 | 2 | 1 | 1.5 | | | | |
| Condenser Pump HP | | | | | | | | |
| Chilled Water Pump HP | | | | | | | | |
| HEATING: | | | | | | | | |
| Type of Heating | | | | | 2 | 3 | | |
| Source | | | | | 1 | 2 | | |
| MBTUH | | | | | 1288791 | 105 | | |
| Hot Water Pump HP | | | | | | 1 | | |
| Condensate Pump HP | | | | | 1/2 | | | |
| ADDITIONAL: | | | | | | | | |
| Aux. HP Cooling | | | | | | | | |
| Aux. HP Heating | | | | | | | | |
| Operating Schedule Hrs./Week | | | | | | | | |
| Type of Cooling | | | | | | | | |
| (1) Air Cooled DX | (4) Water Cooled Chiller | | | | (4) Furnace | | | |
| (2) Water Cooled DX | (5) Central Plant Supplied | | | | (4) Boiler Hot Water | | | |
| (3) Air Cooled Chiller | (6) Other | | | | (2) Boiler Steam | | | |
| Air Side | | | | | (3) Steam to Hot Water Converter | | | |
| (1) Single Zone | (4) VAV w/ Reheat | | | | (1) Natural Gas | | | |
| (2) Multi-Zone | (5) Constant Volume Reheat | | | | (2) Central Plant Steam | | | |
| (3) VAV | (6) Heating and Ventilating | | | | (3) Central Plant Hot Water | | | |

EMCS Annual Energy Savings Summary Report

```

=====
Base: FTMEADE
Building: 909
Case: 1
Description: YOUTH CENTER
=====

```

```

=====
Fuel Type: Natural gas (methane)
Heating Value: 1,031 Btu/cf
=====

```

Caution

```

=====
The ESA program makes no attempt to exclude incompatible strategies.
It is the user's responsibility to select all appropriate strategies.
=====

```

Annual Energy Savings Table for Single Zone DX-A/C

```

=====
Description: ACC-1
=====

```

| Strategy | MBtu/yr | kWh/yr | kW | mh/yr |
|--------------------|---------|--------|-----|-------|
| Demand Limiting | 0.000 | 0 | 1.1 | 0 |
| Run Time Recording | 0.000 | 0 | 0.0 | 2 |
| Safety Alarm | 0.000 | 0 | 0.0 | 2 |
| Totals | 0.000 | 0 | 1.1 | 4 |
| | MBtu/yr | kWh/yr | kW | mh/yr |

Annual Energy Savings Table for Single Zone DX-A/C

```

=====
Description: ACC-2
=====

```

| Strategy | MBtu/yr | kWh/yr | kW | mh/yr |
|--------------------|---------|--------|-----|-------|
| Demand Limiting | 0.000 | 0 | 1.1 | 0 |
| Run Time Recording | 0.000 | 0 | 0.0 | 2 |
| Safety Alarm | 0.000 | 0 | 0.0 | 2 |
| Totals | 0.000 | 0 | 1.1 | 4 |
| | MBtu/yr | kWh/yr | kW | mh/yr |

Annual Energy Savings Table for Single Zone DX-A/C

```

=====
Description: ACC-3
=====
Strategy                MBtu/yr      kWh/yr      kW   mh/yr
=====
      Demand Limiting      0.000         0         0.4    0
      Run Time Recording    0.000         0         0.0    2
      Safety Alarm          0.000         0         0.0    2
=====
              Totals      0.000         0         0.4    4
              MBtu/yr      kWh/yr      kW   mh/yr
=====
    
```

Annual Energy Savings Table for Single Zone DX-A/C

```

=====
Description: ACC-4
=====
Strategy                MBtu/yr      kWh/yr      kW   mh/yr
=====
      Demand Limiting      0.000         0         0.4    0
      Run Time Recording    0.000         0         0.0    2
      Safety Alarm          0.000         0         0.0    2
=====
              Totals      0.000         0         0.4    4
              MBtu/yr      kWh/yr      kW   mh/yr
=====
    
```

Annual Energy Savings Table for Steam/Hot Water Converter

```

=====
Description: CONVERTOR
=====
Strategy                MBtu/yr      kWh/yr      kW   mh/yr
=====
      Hot Water OA Reset    19.385         0         0.0    0
      Run Time Recording    0.000         0         0.0    2
      Safety Alarm          0.000         0         0.0    2
-----
      Subtotals              19.385         0         0.0    4
      Heating Value /      1,031 Btu/cf
=====
              Totals      18,802         0         0.0    4
              cf /yr      kWh/yr      kW   mh/yr
=====
    
```

Annual Energy Savings Table for Lighting Control

```

=====
Description: LIGHTING
=====
Strategy                MBtu/yr      kWh/yr      kW   mh/yr
=====
      Lighting Control      0.000      65,520      0.0   0
=====
              Totals      0.000      65,520      0.0   0
              MBtu/yr      kWh/yr      kW   mh/yr
=====
    
```

EMCS Annual Energy Savings for Building 909

```

=====
Description                Value      Units
=====
      Natural gas (methane)      18,802      cf /yr
      Electrical Energy      65,520      kWh/yr
      Electrical Demand Reduction      3.1      kW
      Labor Savings      20      mh/yr
=====
    
```

**UMCS FEASIBILITY STUDY
FORT MEADE
BUILDING 909 - YOUTH CENTER
DOE ENERGY SAVINGS SUMMARY**

| | Space Heat | | Space Cool | | HVAC Aux | | Lights | | Misc Equip | | TOTAL | | TOTAL | |
|-------------------------------------------|----------------------|----------------------|----------------------|-------|----------------------|-------|----------------------|-------|----------------------|-------|--------------------|--------------------|--------------------|--------------------|
| | Electricity mmBtu | Natural Gas mmBtu | Electricity mmBtu | mmBtu | Electricity mmBtu | mmBtu | Electricity mmBtu | mmBtu | Electricity mmBtu | mmBtu | Electricity Kwh | Natural Gas MCF | Electricity Kwh | Natural Gas MCF |
| Existing | 31.7 | 588.9 | 152.2 | 164.7 | 210.3 | 19.8 | 578.6 | 588.9 | 169,519 | 181.4 | 571.2 | 136,798 | 181.4 | |
| New w/Night Setback | 9.8 | 187.0 | 153.5 | 73.5 | 210.3 | 19.8 | 466.9 | 187.0 | 136,798 | 181.4 | 571.2 | 136,798 | 181.4 | |
| Night Setback Savings | | | | | | | | | | | | | | |
| New w/Night Setback and Vent/Recirc | 9.6 | 182.1 | 130.3 | 73.3 | 210.3 | 19.8 | 443.3 | 182.1 | 129,880 | 176.6 | 4.8 | 6,918 | 4.8 | |
| Vent/Recirc Savings | | | | | | | 23.6 | 4.9 | | | | | | |

| MMDDHH | AHU-1 | AHU-1 | AHU-1 | AHU-1 | AHU-2 | AHU-2 | AHU-2 | AHU-2 |
|-----------------------|---------------------------|-------------------------------|-------------------------------|---------------------------|---------------------------|-------------------------------|-------------------------------|---------------------------|
| | COOLING ELECTRIC KW | TOT HTG COIL PWR BTU/HR | COOLING CAPACITY BTU/HR | HEATING ELECTRIC KW | COOLING ELECTRIC KW | TOT HTG COIL PWR BTU/HR | COOLING CAPACITY BTU/HR | HEATING ELECTRIC KW |
| | ----(47) | ----(5) | ----(70) | ----(46) | ----(47) | ----(5) | ----(70) | ----(46) |
| MONTHLY SUMMARY (JAN) | | | | | | | | |
| MN | 0.000 | -126034. | 190990. | 0.000 | 0.000 | -88330. | 217925. | 0.000 |
| MX | 0.000 | 0. | 246134. | 0.000 | 0.000 | 0. | 280847. | 0.000 |
| SM | 0.000 | -39838104. | 163265104. | 0.000 | 0.000 | -22443394. | 186116960. | 0.000 |
| AV | 0.000 | -53546. | 219442. | 0.000 | 0.000 | -30166. | 250157. | 0.000 |
| MONTHLY SUMMARY (FEB) | | | | | | | | |
| MN | 0.000 | -121962. | 189108. | 0.000 | 0.000 | -86782. | 215778. | 0.000 |
| MX | 0.000 | 0. | 246134. | 0.000 | 0.000 | 0. | 280847. | 0.000 |
| SM | 0.000 | -31235732. | 145702224. | 0.000 | 0.000 | -13484767. | 165186944. | 0.000 |
| AV | 0.000 | -46482. | 216819. | 0.000 | 0.000 | -20067. | 245814. | 0.000 |
| MONTHLY SUMMARY (MAR) | | | | | | | | |
| MN | 0.000 | -88117. | 183550. | 0.000 | 0.000 | -53211. | 202226. | 0.000 |
| MX | 0.000 | 0. | 230167. | 0.000 | 0.000 | 0. | 260628. | 0.000 |
| SM | 0.000 | -21051210. | 155850528. | 0.000 | 0.000 | -3885684. | 176242656. | 0.000 |
| AV | 0.000 | -28295. | 209477. | 0.000 | 0.000 | -5223. | 236885. | 0.000 |
| MONTHLY SUMMARY (APR) | | | | | | | | |
| MN | 0.000 | -72464. | 179393. | 0.000 | 0.000 | -45609. | 203243. | 0.000 |
| MX | 0.000 | 0. | 234863. | 0.000 | 0.000 | 0. | 253318. | 0.000 |
| SM | 0.000 | -10558371. | 146904816. | 0.000 | 0.000 | -809237. | 164953120. | 0.000 |
| AV | 0.000 | -14664. | 204034. | 0.000 | 0.000 | -1124. | 229102. | 0.000 |
| MONTHLY SUMMARY (MAY) | | | | | | | | |
| MN | 0.000 | 0. | 171089. | 0.000 | 0.000 | 0. | 189372. | 0.000 |
| MX | 12.707 | 0. | 225753. | 0.000 | 14.942 | 0. | 244979. | 0.000 |
| SM | 793.138 | 0. | 144117968. | 0.000 | 1433.212 | 0. | 162469888. | 0.000 |
| AV | 1.066 | 0. | 193707. | 0.000 | 1.926 | 0. | 218374. | 0.000 |
| MONTHLY SUMMARY (JUN) | | | | | | | | |
| MN | 0.000 | 0. | 166819. | 0.000 | 0.000 | 0. | 187450. | 0.000 |
| MX | 19.242 | 0. | 234948. | 0.000 | 19.597 | 0. | 241813. | 0.000 |
| SM | 2991.291 | 0. | 138933408. | 0.000 | 4069.744 | 0. | 153714784. | 0.000 |
| AV | 4.155 | 0. | 192963. | 0.000 | 5.652 | 0. | 213493. | 0.000 |
| MONTHLY SUMMARY (JUL) | | | | | | | | |
| MN | 0.000 | 0. | 171242. | 0.000 | 0.000 | 0. | 191556. | 0.000 |
| MX | 18.574 | 0. | 219745. | 0.000 | 18.892 | 0. | 252073. | 0.000 |
| SM | 4197.077 | 0. | 146959888. | 0.000 | 5313.867 | 0. | 160289440. | 0.000 |
| AV | 5.641 | 0. | 197527. | 0.000 | 7.142 | 0. | 215443. | 0.000 |

| | AHU-1 | AHU-1 | AHU-1 | AHU-1 | AHU-2 | AHU-2 | AHU-2 | AHU-2 |
|-----------------------|---------------------------|-------------------------------|-------------------------------|---------------------------|---------------------------|-------------------------------|-------------------------------|---------------------------|
| | COOLING ELECTRIC KW | TOT HTG COIL PWR BTU/HR | COOLING CAPACITY BTU/HR | HEATING ELECTRIC KW | COOLING ELECTRIC KW | TOT HTG COIL PWR BTU/HR | COOLING CAPACITY BTU/HR | HEATING ELECTRIC KW |
| | ----(47) | ----(5) | ----(70) | ----(46) | ----(47) | ----(5) | ----(70) | ----(46) |
| MONTHLY SUMMARY (AUG) | | | | | | | | |
| MN | 0.000 | 0. | 178123. | 0.000 | 0.000 | 0. | 190465. | 0.000 |
| MX | 19.065 | 0. | 227925. | 0.000 | 19.096 | 0. | 247834. | 0.000 |
| SM | 4143.697 | 0. | 147209456. | 0.000 | 4558.182 | 0. | 160962144. | 0.000 |
| AV | 5.569 | 0. | 197862. | 0.000 | 6.127 | 0. | 216347. | 0.000 |
| MONTHLY SUMMARY (SEP) | | | | | | | | |
| MN | 0.000 | 0. | 176342. | 0.000 | 0.000 | 0. | 190391. | 0.000 |
| MX | 18.354 | 0. | 221431. | 0.000 | 18.311 | 0. | 245167. | 0.000 |
| SM | 2129.836 | 0. | 139591360. | 0.000 | 2585.558 | 0. | 155485456. | 0.000 |
| AV | 2.958 | 0. | 193877. | 0.000 | 3.591 | 0. | 215952. | 0.000 |
| MONTHLY SUMMARY (OCT) | | | | | | | | |
| MN | 0.000 | -96586. | 171089. | 0.000 | 0.000 | -37516. | 195218. | 0.000 |
| MX | 11.195 | 0. | 225726. | 0.000 | 11.375 | 0. | 248528. | 0.000 |
| SM | 413.068 | -6738183. | 146104848. | 0.000 | 778.794 | -1852930. | 164955088. | 0.000 |
| AV | 0.555 | -9057. | 196377. | 0.000 | 1.047 | -2490. | 221714. | 0.000 |
| MONTHLY SUMMARY (NOV) | | | | | | | | |
| MN | 0.000 | -75215. | 187241. | 0.000 | 0.000 | -49506. | 213505. | 0.000 |
| MX | 0.000 | 0. | 247626. | 0.000 | 0.000 | 0. | 253318. | 0.000 |
| SM | 0.000 | -18510164. | 150725600. | 0.000 | 0.000 | -6968305. | 169739200. | 0.000 |
| AV | 0.000 | -25709. | 209341. | 0.000 | 0.000 | -9678. | 235749. | 0.000 |
| MONTHLY SUMMARY (DEC) | | | | | | | | |
| MN | 0.000 | -103713. | 192832. | 0.000 | 0.000 | -69276. | 217059. | 0.000 |
| MX | 0.000 | 0. | 236053. | 0.000 | 0.000 | 0. | 269343. | 0.000 |
| SM | 0.000 | -33548890. | 160720416. | 0.000 | 0.000 | -19983432. | 182412048. | 0.000 |
| AV | 0.000 | -45093. | 216022. | 0.000 | 0.000 | -26859. | 245177. | 0.000 |
| YEARLY SUMMARY | | | | | | | | |
| MN | 0.000 | -126034. | 166819. | 0.000 | 0.000 | -88330. | 187450. | 0.000 |
| MX | 19.242 | 0. | 247626. | 0.000 | 19.597 | 0. | 280847. | 0.000 |
| SM | 14668.106 | -161480656. | 1786085632. | 0.000 | 18739.355 | -69427744. | 2002527744. | 0.000 |
| AV | 1.674 | -18434. | 203891. | 0.000 | 2.139 | -7926. | 228599. | 0.000 |

| MMDH | AHU-3 | AHU-3 | AHU-3 | AHU-3 | AHU-4 | AHU-4 | AHU-4 | AHU-4 |
|-----------------------|---------------------------|-------------------------------|-------------------------------|---------------------------|---------------------------|-------------------------------|-------------------------------|---------------------------|
| | COOLING ELECTRIC KW | TOT HTG COIL PWR BTU/HR | COOLING CAPACITY BTU/HR | HEATING ELECTRIC KW | COOLING ELECTRIC KW | TOT HTG COIL PWR BTU/HR | COOLING CAPACITY BTU/HR | HEATING ELECTRIC KW |
| | ----(47) | ----(5) | ----(70) | ----(46) | ----(47) | ----(5) | ----(70) | ----(46) |
| MONTHLY SUMMARY (JAN) | | | | | | | | |
| MN | 0.000 | -45476. | 68645. | 0.000 | 0.000 | -43933. | 68633. | 0.000 |
| MX | 0.000 | 0. | 88465. | 0.000 | 0.000 | 0. | 88449. | 0.000 |
| SM | 0.000 | -13762697. | 58625248. | 0.000 | 0.000 | -12440020. | 58614904. | 0.000 |
| AV | 0.000 | -18498. | 78797. | 0.000 | 0.000 | -16720. | 78783. | 0.000 |
| MONTHLY SUMMARY (FEB) | | | | | | | | |
| MN | 0.000 | -43257. | 67969. | 0.000 | 0.000 | -41173. | 67957. | 0.000 |
| MX | 0.000 | 0. | 88465. | 0.000 | 0.000 | 0. | 88449. | 0.000 |
| SM | 0.000 | -10197001. | 52067336. | 0.000 | 0.000 | -9366234. | 52050960. | 0.000 |
| AV | 0.000 | -15174. | 77481. | 0.000 | 0.000 | -13938. | 77457. | 0.000 |
| MONTHLY SUMMARY (MAR) | | | | | | | | |
| MN | 0.000 | -29919. | 65643. | 0.000 | 0.000 | -29218. | 65445. | 0.000 |
| MX | 0.000 | 0. | 82096. | 0.000 | 0.000 | 0. | 82081. | 0.000 |
| SM | 0.000 | -5931948. | 55512472. | 0.000 | 0.000 | -5422179. | 55493584. | 0.000 |
| AV | 0.000 | -7973. | 74614. | 0.000 | 0.000 | -7288. | 74588. | 0.000 |
| MONTHLY SUMMARY (APR) | | | | | | | | |
| MN | 0.000 | -26037. | 64665. | 0.000 | 0.000 | -24460. | 64654. | 0.000 |
| MX | 0.000 | 0. | 79793. | 0.000 | 0.000 | 0. | 79779. | 0.000 |
| SM | 0.000 | -2405852. | 51817172. | 0.000 | 0.000 | -2294851. | 51774064. | 0.000 |
| AV | 0.000 | -3341. | 71968. | 0.000 | 0.000 | -3187. | 71908. | 0.000 |
| MONTHLY SUMMARY (MAY) | | | | | | | | |
| MN | 0.000 | 0. | 60792. | 0.000 | 0.000 | 0. | 60583. | 0.000 |
| MX | 3.914 | 0. | 77167. | 0.000 | 4.027 | 0. | 77153. | 0.000 |
| SM | 339.358 | 0. | 51267700. | 0.000 | 337.512 | 0. | 51237112. | 0.000 |
| AV | 0.456 | 0. | 68908. | 0.000 | 0.454 | 0. | 68867. | 0.000 |
| MONTHLY SUMMARY (JUN) | | | | | | | | |
| MN | 0.000 | 0. | 59691. | 0.000 | 0.000 | 0. | 59750. | 0.000 |
| MX | 6.458 | 0. | 76170. | 0.000 | 6.495 | 0. | 76156. | 0.000 |
| SM | 1151.516 | 0. | 48902352. | 0.000 | 1128.372 | 0. | 48930968. | 0.000 |
| AV | 1.599 | 0. | 67920. | 0.000 | 1.567 | 0. | 67960. | 0.000 |
| MONTHLY SUMMARY (JUL) | | | | | | | | |
| MN | 0.000 | 0. | 60966. | 0.000 | 0.000 | 0. | 60980. | 0.000 |
| MX | 6.568 | 0. | 78396. | 0.000 | 6.575 | 0. | 78382. | 0.000 |
| SM | 1609.389 | 0. | 51394488. | 0.000 | 1571.088 | 0. | 51535132. | 0.000 |
| AV | 2.163 | 0. | 69079. | 0.000 | 2.112 | 0. | 69268. | 0.000 |

| | AHU-3 | AHU-3 | AHU-3 | AHU-3 | AHU-4 | AHU-4 | AHU-4 | AHU-4 |
|-----------------------|---------------------------|-------------------------------|-------------------------------|---------------------------|---------------------------|-------------------------------|-------------------------------|---------------------------|
| | COOLING ELECTRIC KW | TOT HTG COIL PWR BTU/HR | COOLING CAPACITY BTU/HR | HEATING ELECTRIC KW | COOLING ELECTRIC KW | TOT HTG COIL PWR BTU/HR | COOLING CAPACITY BTU/HR | HEATING ELECTRIC KW |
| | ----(47) | ----(5) | ----(70) | ----(46) | ----(47) | ----(5) | ----(70) | ----(46) |
| MONTHLY SUMMARY (AUG) | | | | | | | | |
| MN | 0.000 | 0. | 61775. | 0.000 | 0.000 | 0. | 61829. | 0.000 |
| MX | 6.430 | 0. | 78066. | 0.000 | 6.443 | 0. | 78052. | 0.000 |
| SM | 1511.641 | 0. | 51505808. | 0.000 | 1509.516 | 0. | 51572372. | 0.000 |
| AV | 2.032 | 0. | 69228. | 0.000 | 2.029 | 0. | 69318. | 0.000 |
| MONTHLY SUMMARY (SEP) | | | | | | | | |
| MN | 0.000 | 0. | 62059. | 0.000 | 0.000 | 0. | 62207. | 0.000 |
| MX | 6.097 | 0. | 77226. | 0.000 | 6.109 | 0. | 77212. | 0.000 |
| SM | 805.310 | 0. | 49356680. | 0.000 | 815.367 | 0. | 49390456. | 0.000 |
| AV | 1.118 | 0. | 68551. | 0.000 | 1.132 | 0. | 68598. | 0.000 |
| MONTHLY SUMMARY (OCT) | | | | | | | | |
| MN | 0.000 | -30731. | 61492. | 0.000 | 0.000 | -29739. | 61481. | 0.000 |
| MX | 3.739 | 0. | 78285. | 0.000 | 3.843 | 0. | 78271. | 0.000 |
| SM | 188.130 | -1852019. | 52041080. | 0.000 | 188.309 | -1748359. | 51997720. | 0.000 |
| AV | 0.253 | -2489. | 69948. | 0.000 | 0.253 | -2350. | 69889. | 0.000 |
| MONTHLY SUMMARY (NOV) | | | | | | | | |
| MN | 0.000 | -26803. | 67297. | 0.000 | 0.000 | -24678. | 67286. | 0.000 |
| MX | 0.000 | 0. | 82323. | 0.000 | 0.000 | 0. | 82157. | 0.000 |
| SM | 0.000 | -5947158. | 53530400. | 0.000 | 0.000 | -5147902. | 53504136. | 0.000 |
| AV | 0.000 | -8260. | 74348. | 0.000 | 0.000 | -7150. | 74311. | 0.000 |
| MONTHLY SUMMARY (DEC) | | | | | | | | |
| MN | 0.000 | -36117. | 69326. | 0.000 | 0.000 | -35422. | 69314. | 0.000 |
| MX | 0.000 | 0. | 84841. | 0.000 | 0.000 | 0. | 84826. | 0.000 |
| SM | 0.000 | -11850593. | 57476164. | 0.000 | 0.000 | -10440188. | 57464316. | 0.000 |
| AV | 0.000 | -15928. | 77253. | 0.000 | 0.000 | -14033. | 77237. | 0.000 |
| YEARLY SUMMARY | | | | | | | | |
| MN | 0.000 | -45476. | 59691. | 0.000 | 0.000 | -43933. | 59750. | 0.000 |
| MX | 6.568 | 0. | 88465. | 0.000 | 6.575 | 0. | 88449. | 0.000 |
| SM | 5605.342 | -51947264. | 633496896. | 0.000 | 5550.165 | -46859732. | 633565760. | 0.000 |
| AV | 0.640 | -5930. | 72317. | 0.000 | 0.634 | -5349. | 72325. | 0.000 |

ENTECH ENGINEERING
READING, PA 19603
REPORT- PV-A EQUIPMENT SIZES

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
UMCS FEASIBILITY STUDY

DOB-2.1D 12/ 1/1995 11:44:53 PDL RUN 1
BUILDING 909 - YOUTH ACTIVITY CENTER
WEATHER FILE- BALTIMORE, MD

| EQUIPMENT | NUMBER | | NUMBER | | NUMBER | | NUMBER | | NUMBER | |
|---------------|----------|-------|----------|-------|----------|-------|----------|-------|----------|-------|
| | SIZE | INSTD | SIZE | INSTD | SIZE | INSTD | SIZE | INSTD | SIZE | INSTD |
| | (MBTU/H) | AVAIL | (MBTU/H) | AVAIL | (MBTU/H) | AVAIL | (MBTU/H) | AVAIL | (MBTU/H) | AVAIL |
| HW-BOILER | 1.100 | 1 1 | | | | | | | | |
| HERM-REC-CHLR | 0.100 | 1 1 | 0.100 | 1 1 | 0.300 | 1 1 | 0.400 | 1 1 | | |

| MONTH | S I T E E N E R G Y | | | | | | | | | | | | SOURCE |
|-------|-----------------------|--------------------------|-------------------------|------------------|-----------------------------|--------------------------|--------------------------|--------------------------|--------------------------|------------------------|------------------------|-------------------------|---------------------------|
| | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | |
| | TOTAL HEAT LOAD | TOTAL COOLING LOAD | TOTAL ELECTR LOAD | RCVRED ENERGY | WASTED RCVRABL ENERGY | FUEL INPUT COOLING | ELEC INPUT COOLING | FUEL INPUT HEATING | ELEC INPUT HEATING | FUEL INPUT ELECT | TOTAL FUEL INPUT | TOTAL SITE ENERGY | TOTAL SOURCE ENERGY |
| JAN | 94.4 | 0.0 | 41.8 12.3E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 154.2 | 9.1 2.7E | 0.0 | 154.2 | 196.0 | 279.8 |
| FEB | 69.3 | 0.0 | 36.4 10.7E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 113.2 | 6.9 2.0E | 0.0 | 113.2 | 149.6 | 222.6 |
| MAR | 40.8 | 0.0 | 39.0 11.4E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 66.7 | 4.5 1.3E | 0.0 | 66.7 | 105.7 | 183.8 |
| APR | 19.5 | 0.0 | 34.8 10.2E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 31.8 | 2.5 0.7E | 0.0 | 31.8 | 66.6 | 136.4 |
| MAY | 0.0 | 0.0 | 42.6 12.5E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 0.0 | 0.0 | 0.0 | 0.0 | 42.6 | 127.9 |
| JUN | 0.0 | 0.0 | 65.1 19.1E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 0.0 | 0.0 | 0.0 | 0.0 | 65.1 | 195.4 |
| JUL | 0.0 | 0.0 | 75.1 22.0E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 0.0 | 0.0 | 0.0 | 0.0 | 75.1 | 225.5 |
| AUG | 0.0 | 0.0 | 74.5 21.8E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 0.0 | 0.0 | 0.0 | 0.0 | 74.5 | 223.8 |
| SEP | 0.0 | 0.0 | 53.9 15.8E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 0.0 | 0.0 | 0.0 | 0.0 | 53.9 | 161.8 |
| OCT | 14.3 | 0.0 | 38.8 11.4E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 23.3 | 1.7 0.5E | 0.0 | 23.3 | 62.1 | 139.9 |
| NOV | 40.8 | 0.0 | 35.8 10.5E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 66.6 | 4.4 1.3E | 0.0 | 66.6 | 102.4 | 174.0 |
| DEC | 81.4 | 0.0 | 40.7 11.9E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 133.1 | 8.0 2.4E | 0.0 | 133.1 | 173.8 | 255.4 |
| | 160.5 | 0.0 | 578.6 169.5E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 588.9 | 37.2 10.9E | 0.0 | 588.9 | 1167.5 | 2326.4 |

NOTE-- ALL ENTRIES ARE IN MBTU EXCEPT
 ENTRIES FOLLOWED BY E ARE IN MWH (THOUSANDS OF KWH)

ENTECH ENGINEERING
 READING, PA 19603
 REPORT- PS-B MONTHLY PEAK AND TOTAL ENERGY USE

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
 UMCS FEASIBILITY STUDY

DOE-2.1D 12/ 1/1995 11:44:53 PDL RUN 1
 BUILDING 909 - YOUTH ACTIVITY CENTER
 WEATHER FILE- BALTIMORE, MD

| MO | UTILITY- | ELECTRICITY | NATURAL-GAS |
|-----|--------------|-------------|-------------|
| | TOTAL (MBTU) | 41.846 | 154.176 |
| JAN | PEAK (KBTU) | 122.297 | 496.465 |
| | DY/HR | 17/ 8 | 31/ 7 |
| | TOTAL (MBTU) | 36.435 | 113.211 |
| FEB | PEAK (KBTU) | 121.450 | 478.292 |
| | DY/HR | 3/ 8 | 3/ 7 |
| | TOTAL (MBTU) | 38.980 | 66.747 |
| MAR | PEAK (KBTU) | 111.927 | 327.222 |
| | DY/HR | 4/ 8 | 5/ 6 |
| | TOTAL (MBTU) | 34.806 | 31.833 |
| APR | PEAK (KBTU) | 110.039 | 288.137 |
| | DY/HR | 8/ 8 | 9/ 7 |
| | TOTAL (MBTU) | 42.598 | 0.000 |
| MAY | PEAK (KBTU) | 214.548 | 0.000 |
| | DY/HR | 6/16 | 31/ 1 |
| | TOTAL (MBTU) | 65.056 | 0.000 |
| JUN | PEAK (KBTU) | 278.001 | 0.000 |
| | DY/HR | 29/16 | 30/ 1 |
| | TOTAL (MBTU) | 75.106 | 0.000 |
| JUL | PEAK (KBTU) | 272.079 | 0.000 |
| | DY/HR | 25/17 | 31/ 1 |
| | TOTAL (MBTU) | 74.539 | 0.000 |
| AUG | PEAK (KBTU) | 275.276 | 0.000 |
| | DY/HR | 18/17 | 31/ 1 |
| | TOTAL (MBTU) | 53.884 | 0.000 |
| SEP | PEAK (KBTU) | 267.650 | 0.000 |
| | DY/HR | 1/17 | 30/ 1 |
| | TOTAL (MBTU) | 38.832 | 23.290 |
| OCT | PEAK (KBTU) | 204.110 | 308.588 |
| | DY/HR | 13/16 | 16/ 2 |
| | TOTAL (MBTU) | 35.768 | 66.596 |
| NOV | PEAK (KBTU) | 111.270 | 298.112 |
| | DY/HR | 23/ 8 | 23/ 7 |
| | TOTAL (MBTU) | 40.730 | 133.061 |
| DEC | PEAK (KBTU) | 117.409 | 411.091 |
| | DY/HR | 21/ 8 | 26/ 7 |
| | ONE YEAR | 578.581 | 588.913 |
| | USE/PEAK | 278.001 | 496.465 |

ENTECH ENGINEERING
READING, PA 19603
REPORT- PS-D PLANT LOADS SATISFIED

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
UMCS FEASIBILITY STUDY

DOB-2.1D 12/ 1/1995 11:44:53 PDL RUN 1
BUILDING 909 - YOUTH ACTIVITY CENTER
WEATHER FILE- BALTIMORE, MD

| HEATING LOADS | MBTU SUPPLIED | PCT OF TOTAL LOAD |
|---------------------|---------------|-------------------|
| ----- | ----- | ----- |
| HW-BOILER | 360.5 | 100.0 |
| | ===== | ===== |
| LOAD SATISFIED | 360.5 | 100.0 |
| TOTAL LOAD ON PLANT | 360.5 | |

| ELECTRICAL LOADS | MBTU SUPPLIED | PCT OF TOTAL LOAD |
|---------------------|---------------|-------------------|
| ----- | ----- | ----- |
| ELECTRICITY | 578.6 | 100.0 |
| | ===== | ===== |
| LOAD SATISFIED | 578.6 | 100.0 |
| TOTAL LOAD ON PLANT | 578.6 | |

ENTECH ENGINEERING
READING, PA 19603
REPORT- PS-D PLANT LOADS SATISFIED

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
UMCS FEASIBILITY STUDY

DOB-2.1D 12/ 1/1995 11:44:53 PDL RUN 1
BUILDING 909 - YOUTH ACTIVITY CENTER
WEATHER FILE- BALTIMORE, MD
----- (CONTINUED) -----

SUMMARY OF LOADS MET

| TYPE OF LOAD | TOTAL LOAD (MBTU) | LOAD SATISFIED (MBTU) | TOTAL OVERLOAD (MBTU) | PEAK OVERLOAD (MBTU) | HOURS OVERLOADED |
|------------------|-------------------------|-----------------------------|-----------------------------|----------------------------|---------------------|
| HEATING LOADS | 360.5 | 360.5 | 0.000 | 0.000 | 0 |
| ELECTRICAL LOADS | 578.6 | 578.6 | 0.000 | 0.000 | 0 |

ENTECH ENGINEERING
 READING, PA 19603
 REPORT- PS-H EQUIPMENT USE STATISTICS

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
 UMCS FEASIBILITY STUDY

DOB-2.LD 12/ 1/1995 11:44:53 PDL RUN 1
 BUILDING 909 - YOUTH ACTIVITY CENTER
 WEATHER FILE- BALTIMORE, MD

| EQUIPMENT | AVG OPER RATIO | MAX LOAD (MBTU) | MON | | ----- | | ----- | | ----- | | ----- | | ----- | |
|---------------|----------------------|-----------------------|-----|----|----------------|-------------|----------------|-------------|----------------|-------------|----------------|-------------|----------------|-------------|
| | | | DAY | HR | SIZE (MBTU) | OPER HRS | SIZE (MBTU) | OPER HRS | SIZE (MBTU) | OPER HRS | SIZE (MBTU) | OPER HRS | SIZE (MBTU) | OPER HRS |
| HW-BOILER | 0.069 | 0.314 | 1 | 31 | 7 | 1.100 | 4728 | | | | | | | |
| HERM-REC-CHLR | 0.000 | 0.000 | 0 | 0 | 0 | 0.100 | 0 | 0.100 | 0 | 0.300 | 0 | 0.400 | 0 | |

ENTECH ENGINEERING
 READING, PA 19603
 REPORT- PS-I EQUIPMENT LIFE CYCLE COSTS

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
 UMCS FEASIBILITY STUDY

DOB-2.1D 12/ 1/1995 11:44:53 PDL RUN 1
 BUILDING 909 - YOUTH ACTIVITY CENTER
 WEATHER FILE- BALTIMORE, MD

E Q U I P M E N T T O T A L S

| | | | | | |
|-----------------------|------|-------|-------|-------|-------|
| HW-BOILER | 43.3 | | | | |
| NOMINAL SIZE (MBTU) | | 1.100 | | | |
| NUMBER INSTALLED | | 1 | | | |
| FIRST COST (K\$) | 37.8 | 37.8 | | | |
| ANNUAL COST (K\$) | 0.9 | 0.9 | | | |
| CYCLICAL COST (K\$) | 4.6 | 4.6 | | | |
| -----TOTAL----- (K\$) | | 43.3 | | | |
| HERM-REC-CHLR | 38.5 | | | | |
| NOMINAL SIZE (MBTU) | | 0.100 | 0.100 | 0.300 | 0.400 |
| NUMBER INSTALLED | | 1 | 1 | 1 | 1 |
| FIRST COST (K\$) | 32.1 | 4.9 | 4.9 | 10.1 | 12.3 |
| ANNUAL COST (K\$) | 6.4 | 1.4 | 1.4 | 1.7 | 1.8 |
| CYCLICAL COST (K\$) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| -----TOTAL----- (K\$) | | 6.2 | 6.2 | 11.9 | 14.1 |
| ----- | | | | | |
| EQUIPMENT TOTAL | 81.8 | | | | |

ENTECH ENGINEERING
READING, PA 19603
REPORT- BEPS ESTIMATED BUILDING ENERGY PERFORMANCE

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
UMCS FEASIBILITY STUDY

DOE-2.1D 12/ 1/1995 11:44:53 PDL RUN 1
BUILDING 909 - YOUTH ACTIVITY CENTER
WEATHER FILE- BALTIMORE, MD

ENERGY TYPE
IN SITE MBTU - ELECTRICITY NATURAL-GAS

CATEGORY OF USE

| | | |
|-------------|--------|--------|
| SPACE HEAT | 31.68 | 588.91 |
| SPACE COOL | 152.15 | 0.00 |
| HVAC AUX | 164.68 | 0.00 |
| DOM HOT WTR | 0.00 | 0.00 |
| AUX SOLAR | 0.00 | 0.00 |
| LIGHTS | 210.31 | 0.00 |
| VERT TRANS | 0.00 | 0.00 |
| MISC EQUIP | 19.75 | 0.00 |
| | ----- | ----- |
| TOTAL | 578.58 | 588.91 |

TOTAL SITE ENERGY 1167.49 MBTU 59.4 KBTU/SQFT-YR GROSS-AREA 59.4 KBTU/SQFT-YR NET-AREA
TOTAL SOURCE ENERGY 2326.39 MBTU 118.3 KBTU/SQFT-YR GROSS-AREA 118.3 KBTU/SQFT-YR NET-AREA

PERCENT OF HOURS ANY SYSTEM ZONE OUTSIDE OF THROTTLING RANGE = 0.1
PERCENT OF HOURS ANY PLANT LOAD NOT SATISFIED = 0.0

NOTE ELECTRICITY AND/OR FUEL USED TO GENERATE ELECTRICITY IS APPORTIONED BASED
ON THE YEARLY DEMAND. ALL OTHER ENERGY TYPES ARE APPORTIONED HOURLY.

| MMDDHH | HW-BOILE R LOAD BTU/HR | HW-BOILE R ELECTRIC USE BTU/HR |
|-----------------------|---------------------------------|--------------------------------------------|
| | ----(1) | ----(3) |
| MONTHLY SUMMARY (JAN) | | |
| MN | 6184. | 544. |
| MX | 314467. | 24200. |
| SM | 94440720. | 8280135. |
| AV | 126936. | 11129. |
| MONTHLY SUMMARY (FEB) | | |
| MN | 4261. | 375. |
| MX | 299204. | 24200. |
| SM | 69308168. | 6089381. |
| AV | 103137. | 9062. |
| MONTHLY SUMMARY (MAR) | | |
| MN | 3328. | 293. |
| MX | 200241. | 17621. |
| SM | 40845148. | 3594373. |
| AV | 54899. | 4831. |
| MONTHLY SUMMARY (APR) | | |
| MN | 2081. | 183. |
| MX | 176323. | 15516. |
| SM | 19479722. | 1714216. |
| AV | 27055. | 2381. |
| MONTHLY SUMMARY (MAY) | | |
| MN | 0. | 0. |
| MX | 0. | 0. |
| SM | 0. | 0. |
| AV | 0. | 0. |
| MONTHLY SUMMARY (JUN) | | |
| MN | 0. | 0. |
| MX | 0. | 0. |
| SM | 0. | 0. |
| AV | 0. | 0. |
| MONTHLY SUMMARY (JUL) | | |
| MN | 0. | 0. |
| MX | 0. | 0. |
| SM | 0. | 0. |
| AV | 0. | 0. |

HW-BOILE HW-BOILE
R R
LOAD ELECTRIC
 USE
BTU/HR BTU/HR

----(1) ----(3)

MONTHLY SUMMARY (AUG)

| | | |
|----|----|----|
| MN | 0. | 0. |
| MX | 0. | 0. |
| SM | 0. | 0. |
| AV | 0. | 0. |

MONTHLY SUMMARY (SEP)

| | | |
|----|----|----|
| MN | 0. | 0. |
| MX | 0. | 0. |
| SM | 0. | 0. |
| AV | 0. | 0. |

MONTHLY SUMMARY (OCT)

| | | |
|----|-----------|----------|
| MN | 0. | 0. |
| MX | 188838. | 15618. |
| SM | 14251854. | 1254163. |
| AV | 19156. | 1686. |

MONTHLY SUMMARY (NOV)

| | | |
|----|-----------|----------|
| MN | 2081. | 183. |
| MX | 182427. | 16054. |
| SM | 40753028. | 3586267. |
| AV | 56601. | 4981. |

MONTHLY SUMMARY (DEC)

| | | |
|----|-----------|----------|
| MN | 5312. | 467. |
| MX | 251564. | 22138. |
| SM | 81425968. | 7165487. |
| AV | 109444. | 9631. |

YEARLY SUMMARY

| | | |
|----|------------|-----------|
| MN | 0. | 0. |
| MX | 314467. | 24200. |
| SM | 360504640. | 31684020. |
| AV | 41153. | 3617. |

BUILDING 909
 W/ NIGHT SCHOOL
 FILE #TMD909A

| MMDH | AHU-1 | AHU-1 | AHU-1 | AHU-1 | AHU-2 | AHU-2 | AHU-2 | AHU-2 |
|-----------------------|---------------------------|-------------------------------|-------------------------------|---------------------------|---------------------------|-------------------------------|-------------------------------|---------------------------|
| | COOLING ELECTRIC KW | TOT HTG COIL PWR BTU/HR | COOLING CAPACITY BTU/HR | HEATING ELECTRIC KW | COOLING ELECTRIC KW | TOT HTG COIL PWR BTU/HR | COOLING CAPACITY BTU/HR | HEATING ELECTRIC KW |
| | ----(47) | ---- (5) | ----(70) | ----(46) | ----(47) | ---- (5) | ----(70) | ----(46) |
| MONTHLY SUMMARY (JAN) | | | | | | | | |
| MN | 0.000 | -222455. | 0. | 0.000 | 0.000 | -160859. | 0. | 0.000 |
| MX | 0.000 | 0. | 246134. | 0.000 | 0.000 | 0. | 280847. | 0.000 |
| SM | 0.000 | -12381361. | 59546524. | 0.000 | 0.000 | -9096970. | 71012856. | 0.000 |
| AV | 0.000 | -16642. | 80036. | 0.000 | 0.000 | -12227. | 95447. | 0.000 |
| MONTHLY SUMMARY (FEB) | | | | | | | | |
| MN | 0.000 | -213635. | 0. | 0.000 | 0.000 | -123313. | 0. | 0.000 |
| MX | 0.000 | 0. | 246134. | 0.000 | 0.000 | 0. | 280847. | 0.000 |
| SM | 0.000 | -6913781. | 49135668. | 0.000 | 0.000 | -3174751. | 55089952. | 0.000 |
| AV | 0.000 | -10286. | 73119. | 0.000 | 0.000 | -4724. | 81979. | 0.000 |
| MONTHLY SUMMARY (MAR) | | | | | | | | |
| MN | 0.000 | -159287. | 0. | 0.000 | 0.000 | -37252. | 0. | 0.000 |
| MX | 0.000 | 0. | 231232. | 0.000 | 0.000 | 0. | 258175. | 0.000 |
| SM | 0.000 | -2684154. | 57961868. | 0.000 | 0.000 | -671707. | 86566192. | 0.000 |
| AV | 0.000 | -3608. | 77906. | 0.000 | 0.000 | -903. | 116352. | 0.000 |
| MONTHLY SUMMARY (APR) | | | | | | | | |
| MN | 0.000 | -88568. | 0. | 0.000 | 0.000 | -11819. | 0. | 0.000 |
| MX | 0.000 | 0. | 236162. | 0.000 | 0.000 | 0. | 255507. | 0.000 |
| SM | 0.000 | -346806. | 53669108. | 0.000 | 0.000 | -1014266. | 119970096. | 0.000 |
| AV | 0.000 | -482. | 74540. | 0.000 | 0.000 | -1409. | 166625. | 0.000 |
| MONTHLY SUMMARY (MAY) | | | | | | | | |
| MN | 0.000 | 0. | 0. | 0.000 | 0.000 | 0. | 0. | 0.000 |
| MX | 13.966 | 0. | 218451. | 0.000 | 16.873 | 0. | 243804. | 0.000 |
| SM | 1570.397 | 0. | 50512644. | 0.000 | 2437.031 | 0. | 77987312. | 0.000 |
| AV | 2.111 | 0. | 67893. | 0.000 | 3.276 | 0. | 104822. | 0.000 |
| MONTHLY SUMMARY (JUN) | | | | | | | | |
| MN | 0.000 | 0. | 0. | 0.000 | 0.000 | 0. | 0. | 0.000 |
| MX | 19.554 | 0. | 215736. | 0.000 | 20.703 | 0. | 242644. | 0.000 |
| SM | 3072.392 | 0. | 52355444. | 0.000 | 4029.208 | 0. | 85475416. | 0.000 |
| AV | 4.267 | 0. | 72716. | 0.000 | 5.596 | 0. | 118716. | 0.000 |
| MONTHLY SUMMARY (JUL) | | | | | | | | |
| MN | 0.000 | 0. | 0. | 0.000 | 0.000 | 0. | 0. | 0.000 |
| MX | 18.650 | 0. | 211886. | 0.000 | 20.901 | 0. | 245730. | 0.000 |
| SM | 3384.639 | 0. | 47801108. | 0.000 | 4311.945 | 0. | 87267064. | 0.000 |
| AV | 4.549 | 0. | 64249. | 0.000 | 5.796 | 0. | 117294. | 0.000 |

| | AHU-1 | AHU-1 | AHU-1 | AHU-1 | AHU-2 | AHU-2 | AHU-2 | AHU-2 |
|-----------------------|---------------------------|-------------------------------|-------------------------------|---------------------------|---------------------------|-------------------------------|-------------------------------|---------------------------|
| | COOLING ELECTRIC KW | TOT HTG COIL PWR BTU/HR | COOLING CAPACITY BTU/HR | HEATING ELECTRIC KW | COOLING ELECTRIC KW | TOT HTG COIL PWR BTU/HR | COOLING CAPACITY BTU/HR | HEATING ELECTRIC KW |
| | ----(47) | ----(5) | ----(70) | ----(46) | ----(47) | ----(5) | ----(70) | ----(46) |
| MONTHLY SUMMARY (AUG) | | | | | | | | |
| MN | 0.000 | 0. | 0. | 0.000 | 0.000 | 0. | 0. | 0.000 |
| MX | 19.249 | 0. | 213780. | 0.000 | 20.469 | 0. | 242976. | 0.000 |
| SM | 3773.703 | 0. | 54739244. | 0.000 | 4133.435 | 0. | 81607904. | 0.000 |
| AV | 5.072 | 0. | 73574. | 0.000 | 5.556 | 0. | 109688. | 0.000 |
| MONTHLY SUMMARY (SEP) | | | | | | | | |
| MN | 0.000 | 0. | 0. | 0.000 | 0.000 | 0. | 0. | 0.000 |
| MX | 18.946 | 0. | 214386. | 0.000 | 19.907 | 0. | 242235. | 0.000 |
| SM | 2481.315 | 0. | 49984988. | 0.000 | 2727.089 | 0. | 68443456. | 0.000 |
| AV | 3.446 | 0. | 69424. | 0.000 | 3.788 | 0. | 95060. | 0.000 |
| MONTHLY SUMMARY (OCT) | | | | | | | | |
| MN | 0.000 | -76051. | 0. | 0.000 | 0.000 | -11389. | 0. | 0.000 |
| MX | 13.021 | 0. | 225475. | 0.000 | 13.139 | 0. | 248528. | 0.000 |
| SM | 1123.711 | -420894. | 48950948. | 0.000 | 1414.495 | -29180. | 58631148. | 0.000 |
| AV | 1.510 | -566. | 65794. | 0.000 | 1.901 | -39. | 78805. | 0.000 |
| MONTHLY SUMMARY (NOV) | | | | | | | | |
| MN | 0.000 | -126632. | 0. | 0.000 | 0.000 | -79011. | 0. | 0.000 |
| MX | 0.000 | 0. | 248522. | 0.000 | 0.000 | 0. | 255203. | 0.000 |
| SM | 0.000 | -1968576. | 51704320. | 0.000 | 0.000 | -1141801. | 60286188. | 0.000 |
| AV | 0.000 | -2734. | 71812. | 0.000 | 0.000 | -1566. | 83731. | 0.000 |
| MONTHLY SUMMARY (DEC) | | | | | | | | |
| MN | 0.000 | -200324. | 0. | 0.000 | 0.000 | -123935. | 0. | 0.000 |
| MX | 0.000 | 0. | 236053. | 0.000 | 0.000 | 0. | 269343. | 0.000 |
| SM | 0.000 | -7592247. | 54401712. | 0.000 | 0.000 | -6922292. | 61832656. | 0.000 |
| AV | 0.000 | -10205. | 73121. | 0.000 | 0.000 | -9304. | 83108. | 0.000 |
| YEARLY SUMMARY | | | | | | | | |
| MN | 0.000 | -222455. | 0. | 0.000 | 0.000 | -160859. | 0. | 0.000 |
| MX | 19.554 | 0. | 248522. | 0.000 | 20.901 | 0. | 280847. | 0.000 |
| SM | 15406.156 | -32307818. | 630763584. | 0.000 | 19053.201 | -22050966. | 914170240. | 0.000 |
| AV | 1.759 | -3688. | 72005. | 0.000 | 2.175 | -2517. | 104357. | 0.000 |

| MMDDHH | AHU-3 | AHU-3 | AHU-3 | AHU-3 | AHU-4 | AHU-4 | AHU-4 | AHU-4 |
|-----------------------|---------------------------|-------------------------------|-------------------------------|---------------------------|---------------------------|-------------------------------|-------------------------------|---------------------------|
| | COOLING ELECTRIC KW | TOT HTG COIL PWR BTU/HR | COOLING CAPACITY BTU/HR | HEATING ELECTRIC KW | COOLING ELECTRIC KW | TOT HTG COIL PWR BTU/HR | COOLING CAPACITY BTU/HR | HEATING ELECTRIC KW |
| | ----(47) | ----(5) | ----(70) | ----(46) | ----(47) | ----(5) | ----(70) | ----(46) |
| MONTHLY SUMMARY (JAN) | | | | | | | | |
| MN | 0.000 | -87581. | 0. | 0.000 | 0.000 | -86329. | 0. | 0.000 |
| MX | 0.000 | 0. | 88465. | 0.000 | 0.000 | 0. | 88449. | 0.000 |
| SM | 0.000 | -6110297. | 23423982. | 0.000 | 0.000 | -4482363. | 22103326. | 0.000 |
| AV | 0.000 | -8213. | 31484. | 0.000 | 0.000 | -6025. | 29709. | 0.000 |
| MONTHLY SUMMARY (FEB) | | | | | | | | |
| MN | 0.000 | -80753. | 0. | 0.000 | 0.000 | -77589. | 0. | 0.000 |
| MX | 0.000 | 0. | 88465. | 0.000 | 0.000 | 0. | 88449. | 0.000 |
| SM | 0.000 | -3240249. | 18013876. | 0.000 | 0.000 | -2192984. | 17361518. | 0.000 |
| AV | 0.000 | -4822. | 26806. | 0.000 | 0.000 | -3263. | 25836. | 0.000 |
| MONTHLY SUMMARY (MAR) | | | | | | | | |
| MN | 0.000 | -59288. | 0. | 0.000 | 0.000 | -55204. | 0. | 0.000 |
| MX | 0.000 | 0. | 81323. | 0.000 | 0.000 | 0. | 81309. | 0.000 |
| SM | 0.000 | -1027462. | 20302114. | 0.000 | 0.000 | -554547. | 20296050. | 0.000 |
| AV | 0.000 | -1381. | 27288. | 0.000 | 0.000 | -745. | 27280. | 0.000 |
| MONTHLY SUMMARY (APR) | | | | | | | | |
| MN | 0.000 | -26243. | 0. | 0.000 | 0.000 | -22289. | 0. | 0.000 |
| MX | 0.000 | 0. | 79793. | 0.000 | 0.000 | 0. | 79779. | 0.000 |
| SM | 0.000 | -138999. | 18465844. | 0.000 | 0.000 | -45719. | 18655486. | 0.000 |
| AV | 0.000 | -193. | 25647. | 0.000 | 0.000 | -63. | 25910. | 0.000 |
| MONTHLY SUMMARY (MAY) | | | | | | | | |
| MN | 0.000 | 0. | 0. | 0.000 | 0.000 | 0. | 0. | 0.000 |
| MX | 4.329 | 0. | 76797. | 0.000 | 4.436 | 0. | 76783. | 0.000 |
| SM | 538.409 | 0. | 17257426. | 0.000 | 554.148 | 0. | 17244286. | 0.000 |
| AV | 0.724 | 0. | 23195. | 0.000 | 0.745 | 0. | 23178. | 0.000 |
| MONTHLY SUMMARY (JUN) | | | | | | | | |
| MN | 0.000 | 0. | 0. | 0.000 | 0.000 | 0. | 0. | 0.000 |
| MX | 6.739 | 0. | 71415. | 0.000 | 6.752 | 0. | 71038. | 0.000 |
| SM | 1066.938 | 0. | 17992704. | 0.000 | 1056.341 | 0. | 17596722. | 0.000 |
| AV | 1.482 | 0. | 24990. | 0.000 | 1.467 | 0. | 24440. | 0.000 |
| MONTHLY SUMMARY (JUL) | | | | | | | | |
| MN | 0.000 | 0. | 0. | 0.000 | 0.000 | 0. | 0. | 0.000 |
| MX | 6.792 | 0. | 73197. | 0.000 | 6.770 | 0. | 71128. | 0.000 |
| SM | 1160.955 | 0. | 16662658. | 0.000 | 1150.761 | 0. | 16053807. | 0.000 |
| AV | 1.560 | 0. | 22396. | 0.000 | 1.547 | 0. | 21578. | 0.000 |

| | AHU-3 | AHU-3 | AHU-3 | AHU-3 | AHU-4 | AHU-4 | AHU-4 | AHU-4 |
|-----------------------|---------------------------|-------------------------------|-------------------------------|---------------------------|---------------------------|-------------------------------|-------------------------------|---------------------------|
| | COOLING ELECTRIC KW | TOT HTG COIL PWR BTU/HR | COOLING CAPACITY BTU/HR | HEATING ELECTRIC KW | COOLING ELECTRIC KW | TOT HTG COIL PWR BTU/HR | COOLING CAPACITY BTU/HR | HEATING ELECTRIC KW |
| | ----(47) | ----(5) | ----(70) | ----(46) | ----(47) | ----(5) | ----(70) | ----(46) |
| MONTHLY SUMMARY (AUG) | | | | | | | | |
| MN | 0.000 | 0. | 0. | 0.000 | 0.000 | 0. | 0. | 0.000 |
| MX | 6.660 | 0. | 70987. | 0.000 | 6.675 | 0. | 70928. | 0.000 |
| SM | 1278.037 | 0. | 18331272. | 0.000 | 1287.088 | 0. | 18356098. | 0.000 |
| AV | 1.718 | 0. | 24639. | 0.000 | 1.730 | 0. | 24672. | 0.000 |
| MONTHLY SUMMARY (SEP) | | | | | | | | |
| MN | 0.000 | 0. | 0. | 0.000 | 0.000 | 0. | 0. | 0.000 |
| MX | 6.482 | 0. | 73168. | 0.000 | 6.491 | 0. | 73155. | 0.000 |
| SM | 816.561 | 0. | 16837770. | 0.000 | 839.907 | 0. | 16836158. | 0.000 |
| AV | 1.134 | 0. | 23386. | 0.000 | 1.167 | 0. | 23384. | 0.000 |
| MONTHLY SUMMARY (OCT) | | | | | | | | |
| MN | 0.000 | -30843. | 0. | 0.000 | 0.000 | -26626. | 0. | 0.000 |
| MX | 4.244 | 0. | 78285. | 0.000 | 4.382 | 0. | 78271. | 0.000 |
| SM | 356.798 | -197396. | 16594709. | 0.000 | 394.689 | -110509. | 16565257. | 0.000 |
| AV | 0.480 | -265. | 22305. | 0.000 | 0.530 | -149. | 22265. | 0.000 |
| MONTHLY SUMMARY (NOV) | | | | | | | | |
| MN | 0.000 | -59226. | 0. | 0.000 | 0.000 | -51979. | 0. | 0.000 |
| MX | 0.000 | 0. | 82680. | 0.000 | 0.000 | 0. | 82559. | 0.000 |
| SM | 0.000 | -1267402. | 17898272. | 0.000 | 0.000 | -511912. | 17966804. | 0.000 |
| AV | 0.000 | -1760. | 24859. | 0.000 | 0.000 | -850. | 24957. | 0.000 |
| MONTHLY SUMMARY (DEC) | | | | | | | | |
| MN | 0.000 | -74020. | 0. | 0.000 | 0.000 | -76503. | 0. | 0.000 |
| MX | 0.000 | 0. | 84841. | 0.000 | 0.000 | 0. | 84826. | 0.000 |
| SM | 0.000 | -4243262. | 20222048. | 0.000 | 0.000 | -2694300. | 19258718. | 0.000 |
| AV | 0.000 | -5703. | 27180. | 0.000 | 0.000 | -3621. | 25885. | 0.000 |
| YEARLY SUMMARY | | | | | | | | |
| MN | 0.000 | -87581. | 0. | 0.000 | 0.000 | -86329. | 0. | 0.000 |
| MX | 6.792 | 0. | 88465. | 0.000 | 6.770 | 0. | 88449. | 0.000 |
| SM | 5217.697 | -16225066. | 222002656. | 0.000 | 5282.935 | -10692332. | 218296240. | 0.000 |
| AV | 0.596 | -1852. | 25343. | 0.000 | 0.603 | -1222. | 24920. | 0.000 |

ENTECH ENGINEERING
READING, PA 19603
REPORT- PV-A EQUIPMENT SIZES

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
UMCS FEASIBILITY STUDY

DOE-2.1D 6/28/1996 9:34:25 PDL RUN 1
BUILDING 909 - YOUTH ACTIVITY CENTER
WEATHER FILE- BALTIMORE, MD

| EQUIPMENT | NUMBER | | NUMBER | | NUMBER | | NUMBER | | NUMBER | | | |
|---------------|----------|-------|----------|-------|----------|-------|----------|-------|----------|-------|---|---|
| | SIZE | INSTD | SIZE | INSTD | SIZE | INSTD | SIZE | INSTD | SIZE | INSTD | | |
| | (MBTU/H) | AVAIL | (MBTU/H) | AVAIL | (MBTU/H) | AVAIL | (MBTU/H) | AVAIL | (MBTU/H) | AVAIL | | |
| HW-BOILER | 1.100 | 1 | 1 | | | | | | | | | |
| HERM-REC-CHLR | 0.100 | 1 | 1 | 0.100 | 1 | 1 | 0.300 | 1 | 1 | 0.400 | 1 | 1 |

| S I T E E N E R G Y | | | | | | | | | | | | | * SOURCE |
|---------------------|-----------------|--------------------|-------------------|---------------|-----------------------|--------------------|--------------------|--------------------|--------------------|------------------|------------------|-------------------|---------------------|
| | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| MONTH | TOTAL HEAT LOAD | TOTAL COOLING LOAD | TOTAL ELECTR LOAD | RCVRED ENERGY | WASTED RCVRABL ENERGY | FUEL INPUT COOLING | ELEC INPUT COOLING | FUEL INPUT HEATING | ELEC INPUT HEATING | FUEL INPUT ELECT | TOTAL FUEL INPUT | TOTAL SITE ENERGY | TOTAL SOURCE ENERGY |
| JAN | 38.4 | 0.0 | 29.1 8.5E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 61.7 | 4.8 1.4E | 0.0 | 61.7 | 90.8 | 149.1 |
| FEB | 20.9 | 0.0 | 24.7 7.2E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 33.9 | 3.2 0.9E | 0.0 | 33.9 | 58.6 | 108.1 |
| MAR | 10.2 | 0.0 | 29.2 8.6E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 16.7 | 2.5 0.7E | 0.0 | 16.7 | 45.9 | 104.5 |
| APR | 5.8 | 0.0 | 27.9 8.2E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 9.4 | 2.0 0.6E | 0.0 | 9.4 | 37.3 | 93.2 |
| MAY | 0.0 | 0.0 | 42.0 12.3E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 0.0 | 0.0 0.0E | 0.0 | 0.0 | 42.0 | 126.2 |
| JUN | 0.0 | 0.0 | 57.5 16.8E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 0.0 | 0.0 0.0E | 0.0 | 0.0 | 57.5 | 172.6 |
| JUL | 0.0 | 0.0 | 58.1 17.0E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 0.0 | 0.0 0.0E | 0.0 | 0.0 | 58.1 | 174.5 |
| AUG | 0.0 | 0.0 | 62.6 18.3E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 0.0 | 0.0 0.0E | 0.0 | 0.0 | 62.6 | 188.1 |
| SEP | 0.0 | 0.0 | 47.8 14.0E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 0.0 | 0.0 0.0E | 0.0 | 0.0 | 47.8 | 143.4 |
| OCT | 3.1 | 0.0 | 35.2 10.3E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 5.1 | 1.1 0.3E | 0.0 | 5.1 | 40.3 | 110.8 |
| NOV | 9.7 | 0.0 | 25.1 7.4E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 15.8 | 2.4 0.7E | 0.0 | 15.8 | 40.9 | 91.2 |
| DEC | 27.4 | 0.0 | 27.7 8.1E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 44.3 | 3.9 1.1E | 0.0 | 44.3 | 72.0 | 127.4 |
| ===== | 115.5 | 0.0 | 466.9 136.7E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 187.0 | 19.3 5.3E | 0.0 | 187.0 | 653.9 | 1589.1 |

NOTE-- ALL ENTRIES ARE IN MBTU EXCEPT
 ENTRIES FOLLOWED BY E ARE IN MWH (THOUSANDS OF KWH)

ENTECH ENGINEERING
 READING, PA 19603
 REPORT- PS-B MONTHLY PEAK AND TOTAL ENERGY USE

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
 UMCS FEASIBILITY STUDY

DOE-2.1D 6/28/1996 9:34:25 PDL RUN 1
 BUILDING 909 - YOUTH ACTIVITY CENTER
 WEATHER FILE- BALTIMORE, MD

| MO | UTILITY- | ELECTRICITY | NATURAL-GAS |
|-----|--------------|-------------|-------------|
| | TOTAL (MBTU) | 29.080 | 61.740 |
| JAN | PEAK (KBTU) | 127.499 | 794.618 |
| | DY/HR | 31/11 | 31/ 7 |
| | TOTAL (MBTU) | 24.718 | 33.911 |
| FEB | PEAK (KBTU) | 127.499 | 671.590 |
| | DY/HR | 14/ 8 | 14/ 7 |
| | TOTAL (MBTU) | 29.235 | 16.696 |
| MAR | PEAK (KBTU) | 120.073 | 463.274 |
| | DY/HR | 7/ 8 | 7/ 7 |
| | TOTAL (MBTU) | 27.897 | 9.442 |
| APR | PEAK (KBTU) | 110.569 | 259.750 |
| | DY/HR | 11/ 8 | 11/ 7 |
| | TOTAL (MBTU) | 42.019 | 0.000 |
| MAY | PEAK (KBTU) | 230.505 | 0.000 |
| | DY/HR | 6/16 | 31/ 1 |
| | TOTAL (MBTU) | 57.479 | 0.000 |
| JUN | PEAK (KBTU) | 284.196 | 0.000 |
| | DY/HR | 29/16 | 30/ 1 |
| | TOTAL (MBTU) | 58.106 | 0.000 |
| JUL | PEAK (KBTU) | 282.502 | 0.000 |
| | DY/HR | 25/14 | 31/ 1 |
| | TOTAL (MBTU) | 62.624 | 0.000 |
| AUG | PEAK (KBTU) | 282.305 | 0.000 |
| | DY/HR | 18/16 | 31/ 1 |
| | TOTAL (MBTU) | 47.752 | 0.000 |
| SEP | PEAK (KBTU) | 278.115 | 0.000 |
| | DY/HR | 1/16 | 30/ 1 |
| | TOTAL (MBTU) | 35.176 | 5.140 |
| OCT | PEAK (KBTU) | 218.390 | 241.586 |
| | DY/HR | 13/16 | 24/ 7 |
| | TOTAL (MBTU) | 25.117 | 15.818 |
| NOV | PEAK (KBTU) | 123.764 | 514.509 |
| | DY/HR | 28/ 8 | 28/ 7 |
| | TOTAL (MBTU) | 27.698 | 44.267 |
| DEC | PEAK (KBTU) | 127.499 | 663.883 |
| | DY/HR | 27/ 9 | 27/ 7 |
| | ONE YEAR | 466.900 | 187.014 |
| | USE/PEAK | 284.196 | 794.618 |

ENTECH ENGINEERING
READING, PA 19603
REPORT- PS-D PLANT LOADS SATISFIED

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
UMCS FEASIBILITY STUDY

DOE-2.1D 6/28/1996 9:34:25 PDL RUN 1
BUILDING 909 - YOUTH ACTIVITY CENTER
WEATHER FILE- BALTIMORE, MD
----- (CONTINUED) -----

SUMMARY OF LOADS MET

| TYPE OF LOAD | TOTAL LOAD (MBTU) | LOAD SATISFIED (MBTU) | TOTAL OVERLOAD (MBTU) | PEAK OVERLOAD (MBTU) | HOURS OVERLOADED |
|------------------|-------------------------|-----------------------------|-----------------------------|----------------------------|---------------------|
| HEATING LOADS | 115.5 | 115.5 | 0.000 | 0.000 | 0 |
| ELECTRICAL LOADS | 466.9 | 466.9 | 0.000 | 0.000 | 0 |

ENTECH ENGINEERING
 READING, PA 19603
 REPORT- PS-H EQUIPMENT USE STATISTICS

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
 UMCS FEASIBILITY STUDY

DOE-2.1D 6/28/1996 9:34:25 PDL RUN 1
 BUILDING 909 - YOUTH ACTIVITY CENTER
 WEATHER FILE- BALTIMORE, MD

| EQUIPMENT | AVG OPER RATIO | MAX LOAD (MBTU) | MON | | SIZE OPER | | SIZE OPER | | SIZE OPER | | SIZE OPER | | |
|---------------|----------------------|-----------------------|-----|----|-----------|-------|-----------|-------|-----------|-------|-----------|-------|---|
| | | | DAY | HR | (MBTU) | HRS | (MBTU) | HRS | (MBTU) | HRS | (MBTU) | HRS | |
| HW-BOILER | 0.022 | 0.570 | 1 | 31 | 7 | 1.100 | 4728 | | | | | | |
| HERM-REC-CHLR | 0.000 | 0.000 | 0 | 0 | 0 | 0.100 | 0 | 0.100 | 0 | 0.300 | 0 | 0.400 | 0 |

ENTECH ENGINEERING
 READING, PA 19603
 REPORT- PS-I EQUIPMENT LIFE CYCLE COSTS

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
 UMCS FEASIBILITY STUDY

DOE-2.1D 6/28/1996 9:34:25 PDL RUN 1
 BUILDING 909 - YOUTH ACTIVITY CENTER
 WEATHER FILE- BALTIMORE, MD

EQUIPMENT TOTALS

| | | | | | |
|-----------------------|------|-------|-------|-------|-------|
| HW-BOILER | 43.3 | | | | |
| NOMINAL SIZE (MBTU) | | 1.100 | | | |
| NUMBER INSTALLED | | 1 | | | |
| FIRST COST (K\$) | 37.8 | 37.8 | | | |
| ANNUAL COST (K\$) | 0.9 | 0.9 | | | |
| CYCLICAL COST (K\$) | 4.6 | 4.6 | | | |
| -----TOTAL----- (K\$) | | 43.3 | | | |
| HERM-REC-CHLR | 38.5 | | | | |
| NOMINAL SIZE (MBTU) | | 0.100 | 0.100 | 0.300 | 0.400 |
| NUMBER INSTALLED | | 1 | 1 | 1 | 1 |
| FIRST COST (K\$) | 32.1 | 4.9 | 4.9 | 10.1 | 12.3 |
| ANNUAL COST (K\$) | 6.4 | 1.4 | 1.4 | 1.7 | 1.8 |
| CYCLICAL COST (K\$) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| -----TOTAL----- (K\$) | | 6.2 | 6.2 | 11.9 | 14.1 |
| EQUIPMENT TOTAL | 81.8 | | | | |

| ENERGY TYPE | ELECTRICITY | NATURAL-GAS |
|-----------------|-------------|-------------|
| IN SITE MBTU - | | |
| CATEGORY OF USE | | |
| SPACE HEAT | 9.83 | 187.01 |
| SPACE COOL | 153.51 | 0.00 |
| HVAC AUX | 73.49 | 0.00 |
| DOM HOT WTR | 0.00 | 0.00 |
| AUX SOLAR | 0.00 | 0.00 |
| LIGHTS | 210.32 | 0.00 |
| VERT TRANS | 0.00 | 0.00 |
| MISC EQUIP | 19.75 | 0.00 |
| | ----- | ----- |
| TOTAL | 466.90 | 187.01 |

TOTAL SITE ENERGY 653.91 MBTU 33.3 KBTU/SQFT-YR GROSS-AREA 33.3 KBTU/SQFT-YR NET-AREA
 TOTAL SOURCE ENERGY 1589.12 MBTU 80.8 KBTU/SQFT-YR GROSS-AREA 30.3 KBTU/SQFT-YR NET-AREA

PERCENT OF HOURS ANY SYSTEM ZONE OUTSIDE OF THROTTLING RANGE = 10.3
 PERCENT OF HOURS ANY PLANT LOAD NOT SATISFIED = 0.0

NOTE ELECTRICITY AND/OR FUEL USED TO GENERATE ELECTRICITY IS APPORTIONED BASED
 ON THE YEARLY DEMAND. ALL OTHER ENERGY TYPES ARE APPORTIONED HOURLY.

MMDHHR HW-BOILE HW-BOILE
R R
LOAD ELECTRIC
BTU/HR USE
BTU/HR

---- (1) ---- (3)

MONTHLY SUMMARY (JAN)

| | | |
|----|-----------|----------|
| MN | 3773. | 332. |
| MX | 570134. | 24200. |
| SM | 38375348. | 3188496. |
| AV | 51580. | 4286. |

MONTHLY SUMMARY (FEB)

| | | |
|----|-----------|----------|
| MN | 3773. | 332. |
| MX | 463408. | 24200. |
| SM | 20920230. | 1786917. |
| AV | 31131. | 2659. |

MONTHLY SUMMARY (MAR)

| | | |
|----|-----------|---------|
| MN | 3773. | 332. |
| MX | 286617. | 24200. |
| SM | 10220167. | 898352. |
| AV | 13737. | 1207. |

MONTHLY SUMMARY (APR)

| | | |
|----|----------|---------|
| MN | 3773. | 332. |
| MX | 158952. | 13988. |
| SM | 5778080. | 508471. |
| AV | 8025. | 706. |

MONTHLY SUMMARY (MAY)

| | | |
|----|----|----|
| MN | 0. | 0. |
| MX | 0. | 0. |
| SM | 0. | 0. |
| AV | 0. | 0. |

MONTHLY SUMMARY (JUN)

| | | |
|----|----|----|
| MN | 0. | 0. |
| MX | 0. | 0. |
| SM | 0. | 0. |
| AV | 0. | 0. |

MONTHLY SUMMARY (JUL)

| | | |
|----|----|----|
| MN | 0. | 0. |
| MX | 0. | 0. |
| SM | 0. | 0. |
| AV | 0. | 0. |

| | HW-BOILE R LOAD BTU/HR | HW-BOILE R ELECTRIC USE BTU/HR |
|-----------------------|---------------------------------|--------------------------------------------|
| | ---- (1) | ---- (3) |
| MONTHLY SUMMARY (AUG) | | |
| MN | 0. | 0. |
| MX | 0. | 0. |
| SM | 0. | 0. |
| AV | 0. | 0. |
| MONTHLY SUMMARY (SEP) | | |
| MN | 0. | 0. |
| MX | 0. | 0. |
| SM | 0. | 0. |
| AV | 0. | 0. |
| MONTHLY SUMMARY (OCT) | | |
| MN | 0. | 0. |
| MX | 147837. | 13010. |
| SM | 3145479. | 276802. |
| AV | 4228. | 372. |
| MONTHLY SUMMARY (NOV) | | |
| MN | 3773. | 332. |
| MX | 329657. | 24200. |
| SM | 9694687. | 848323. |
| AV | 13465. | 1178. |
| MONTHLY SUMMARY (DEC) | | |
| MN | 3773. | 332. |
| MX | 456781. | 24200. |
| SM | 27368952. | 2318654. |
| AV | 36786. | 3116. |
| YEARLY SUMMARY | | |
| MN | 0. | 0. |
| MX | 570134. | 24200. |
| SM | 115502944. | 9826015. |
| AV | 13185. | 1122. |

MMDH H HERM-CEN HERM-CEN
T-CHLR T-CHLR
LOAD ELECTRIC
USE
BTU/HR BTU/HR

---- (1) ---- (3)

MONTHLY SUMMARY (JAN)

MN 0. 0.
MX 0. 0.
SM 0. 0.
AV 0. 0.

MONTHLY SUMMARY (FEB)

MN 0. 0.
MX 0. 0.
SM 0. 0.
AV 0. 0.

MONTHLY SUMMARY (MAR)

MN 0. 0.
MX 0. 0.
SM 0. 0.
AV 0. 0.

MONTHLY SUMMARY (APR)

MN 0. 0.
MX 0. 0.
SM 0. 0.
AV 0. 0.

MONTHLY SUMMARY (MAY)

MN 0. 0.
MX 0. 0.
SM 0. 0.
AV 0. 0.

MONTHLY SUMMARY (JUN)

MN 0. 0.
MX 0. 0.
SM 0. 0.
AV 0. 0.

MONTHLY SUMMARY (JUL)

MN 0. 0.
MX 0. 0.
SM 0. 0.
AV 0. 0.

| | HERM-CEN T-CHLR LOAD BTU/HR | HERM-CEN T-CHLR ELECTRIC USE BTU/HR |
|-----------------------|------------------------------------------|-----------------------------------------------------|
| | ----(1) | ----(3) |
| MONTHLY SUMMARY (AUG) | | |
| MN | 0. | 0. |
| MX | 0. | 0. |
| SM | 0. | 0. |
| AV | 0. | 0. |
| MONTHLY SUMMARY (SEP) | | |
| MN | 0. | 0. |
| MX | 0. | 0. |
| SM | 0. | 0. |
| AV | 0. | 0. |
| MONTHLY SUMMARY (OCT) | | |
| MN | 0. | 0. |
| MX | 0. | 0. |
| SM | 0. | 0. |
| AV | 0. | 0. |
| MONTHLY SUMMARY (NOV) | | |
| MN | 0. | 0. |
| MX | 0. | 0. |
| SM | 0. | 0. |
| AV | 0. | 0. |
| MONTHLY SUMMARY (DEC) | | |
| MN | 0. | 0. |
| MX | 0. | 0. |
| SM | 0. | 0. |
| AV | 0. | 0. |
| YEARLY SUMMARY | | |
| MN | 0. | 0. |
| MX | 0. | 0. |
| SM | 0. | 0. |
| AV | 0. | 0. |

MMDDHH HERM-CEN HERM-CEN
T-CHLR T-CHLR
LOAD ELECTRIC
USE
BTU/HR BTU/HR

---- (1) ---- (3)

MONTHLY SUMMARY (JAN)

MN 0. 0.
MX 0. 0.
SM 0. 0.
AV 0. 0.

MONTHLY SUMMARY (FEB)

MN 0. 0.
MX 0. 0.
SM 0. 0.
AV 0. 0.

MONTHLY SUMMARY (MAR)

MN 0. 0.
MX 0. 0.
SM 0. 0.
AV 0. 0.

MONTHLY SUMMARY (APR)

MN 0. 0.
MX 0. 0.
SM 0. 0.
AV 0. 0.

MONTHLY SUMMARY (MAY)

MN 0. 0.
MX 0. 0.
SM 0. 0.
AV 0. 0.

MONTHLY SUMMARY (JUN)

MN 0. 0.
MX 0. 0.
SM 0. 0.
AV 0. 0.

MONTHLY SUMMARY (JUL)

MN 0. 0.
MX 0. 0.
SM 0. 0.
AV 0. 0.

HERM-CEN HERM-CEN
T-CHLR T-CHLR
LOAD ELECTRIC
 USE
BTU/HR BTU/HR

----(1) ----(3)

MONTHLY SUMMARY (AUG)

| | | |
|----|----|----|
| MN | 0. | 0. |
| MX | 0. | 0. |
| SM | 0. | 0. |
| AV | 0. | 0. |

MONTHLY SUMMARY (SEP)

| | | |
|----|----|----|
| MN | 0. | 0. |
| MX | 0. | 0. |
| SM | 0. | 0. |
| AV | 0. | 0. |

MONTHLY SUMMARY (OCT)

| | | |
|----|----|----|
| MN | 0. | 0. |
| MX | 0. | 0. |
| SM | 0. | 0. |
| AV | 0. | 0. |

MONTHLY SUMMARY (NOV)

| | | |
|----|----|----|
| MN | 0. | 0. |
| MX | 0. | 0. |
| SM | 0. | 0. |
| AV | 0. | 0. |

MONTHLY SUMMARY (DEC)

| | | |
|----|----|----|
| MN | 0. | 0. |
| MX | 0. | 0. |
| SM | 0. | 0. |
| AV | 0. | 0. |

YEARLY SUMMARY

| | | |
|----|----|----|
| MN | 0. | 0. |
| MX | 0. | 0. |
| SM | 0. | 0. |
| AV | 0. | 0. |

MMDDHH HERM-CEN HERM-CEN
T-CHLR T-CHLR
LOAD ELECTRIC
USE
BTU/HR BTU/HR

----(1) ----(3)

MONTHLY SUMMARY (JAN)

| | | |
|----|----|----|
| MN | 0. | 0. |
| MX | 0. | 0. |
| SM | 0. | 0. |
| AV | 0. | 0. |

MONTHLY SUMMARY (FEB)

| | | |
|----|----|----|
| MN | 0. | 0. |
| MX | 0. | 0. |
| SM | 0. | 0. |
| AV | 0. | 0. |

MONTHLY SUMMARY (MAR)

| | | |
|----|----|----|
| MN | 0. | 0. |
| MX | 0. | 0. |
| SM | 0. | 0. |
| AV | 0. | 0. |

MONTHLY SUMMARY (APR)

| | | |
|----|----|----|
| MN | 0. | 0. |
| MX | 0. | 0. |
| SM | 0. | 0. |
| AV | 0. | 0. |

MONTHLY SUMMARY (MAY)

| | | |
|----|----|----|
| MN | 0. | 0. |
| MX | 0. | 0. |
| SM | 0. | 0. |
| AV | 0. | 0. |

MONTHLY SUMMARY (JUN)

| | | |
|----|----|----|
| MN | 0. | 0. |
| MX | 0. | 0. |
| SM | 0. | 0. |
| AV | 0. | 0. |

MONTHLY SUMMARY (JUL)

| | | |
|----|----|----|
| MN | 0. | 0. |
| MX | 0. | 0. |
| SM | 0. | 0. |
| AV | 0. | 0. |

| | HERM-CEN | HERM-CEN |
|-----------------------|------------|------------|
| | T-CHLR | T-CHLR |
| | LOAD | ELECTRIC |
| | | USE |
| | BTU/HR | BTU/HR |
| | ---- (1) | ---- (3) |
| MONTHLY SUMMARY (AUG) | | |
| MN | 0. | 0. |
| MX | 0. | 0. |
| SM | 0. | 0. |
| AV | 0. | 0. |
| MONTHLY SUMMARY (SEP) | | |
| MN | 0. | 0. |
| MX | 0. | 0. |
| SM | 0. | 0. |
| AV | 0. | 0. |
| MONTHLY SUMMARY (OCT) | | |
| MN | 0. | 0. |
| MX | 0. | 0. |
| SM | 0. | 0. |
| AV | 0. | 0. |
| MONTHLY SUMMARY (NOV) | | |
| MN | 0. | 0. |
| MX | 0. | 0. |
| SM | 0. | 0. |
| AV | 0. | 0. |
| MONTHLY SUMMARY (DEC) | | |
| MN | 0. | 0. |
| MX | 0. | 0. |
| SM | 0. | 0. |
| AV | 0. | 0. |
| YEARLY SUMMARY | | |
| MN | 0. | 0. |
| MX | 0. | 0. |
| SM | 0. | 0. |
| AV | 0. | 0. |

MMDDHH HERM-CEN HERM-CEN
T-CHLR T-CHLR
LOAD ELECTRIC
USE
BTU/HR BTU/HR
----(1) ----(3)

MONTHLY SUMMARY (JAN)

| | | |
|----|----|----|
| MN | 0. | 0. |
| MX | 0. | 0. |
| SM | 0. | 0. |
| AV | 0. | 0. |

MONTHLY SUMMARY (FEB)

| | | |
|----|----|----|
| MN | 0. | 0. |
| MX | 0. | 0. |
| SM | 0. | 0. |
| AV | 0. | 0. |

MONTHLY SUMMARY (MAR)

| | | |
|----|----|----|
| MN | 0. | 0. |
| MX | 0. | 0. |
| SM | 0. | 0. |
| AV | 0. | 0. |

MONTHLY SUMMARY (APR)

| | | |
|----|----|----|
| MN | 0. | 0. |
| MX | 0. | 0. |
| SM | 0. | 0. |
| AV | 0. | 0. |

MONTHLY SUMMARY (MAY)

| | | |
|----|----|----|
| MN | 0. | 0. |
| MX | 0. | 0. |
| SM | 0. | 0. |
| AV | 0. | 0. |

MONTHLY SUMMARY (JUN)

| | | |
|----|----|----|
| MN | 0. | 0. |
| MX | 0. | 0. |
| SM | 0. | 0. |
| AV | 0. | 0. |

MONTHLY SUMMARY (JUL)

| | | |
|----|----|----|
| MN | 0. | 0. |
| MX | 0. | 0. |
| SM | 0. | 0. |
| AV | 0. | 0. |

| | HERM-CEN T-CHLR LOAD BTU/HR | HERM-CEN T-CHLR ELECTRIC USE BTU/HR |
|-----------------------|------------------------------------------|-------------------------------------------------|
| | ---- (1) | ---- (3) |
| MONTHLY SUMMARY (AUG) | | |
| MN | 0. | 0. |
| MX | 0. | 0. |
| SM | 0. | 0. |
| AV | 0. | 0. |
| MONTHLY SUMMARY (SEP) | | |
| MN | 0. | 0. |
| MX | 0. | 0. |
| SM | 0. | 0. |
| AV | 0. | 0. |
| MONTHLY SUMMARY (OCT) | | |
| MN | 0. | 0. |
| MX | 0. | 0. |
| SM | 0. | 0. |
| AV | 0. | 0. |
| MONTHLY SUMMARY (NOV) | | |
| MN | 0. | 0. |
| MX | 0. | 0. |
| SM | 0. | 0. |
| AV | 0. | 0. |
| MONTHLY SUMMARY (DEC) | | |
| MN | 0. | 0. |
| MX | 0. | 0. |
| SM | 0. | 0. |
| AV | 0. | 0. |
| YEARLY SUMMARY | | |
| MN | 0. | 0. |
| MX | 0. | 0. |
| SM | 0. | 0. |
| AV | 0. | 0. |

W/NIGHT SETBACK
AND VENTILATION CONTROL

ENTECH ENGINEERING
READING, PA 19603
SYS = HOURLY-REPORT

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
UMCS FEASIBILITY STUDY

DOE-2.1D 12/ 1/1995 13:54: 6 SDL RUN 1
BUILDING 909 - YOUTH ACTIVITY CENTER

PAGE 1- 1

| MMDDHH | AHU-1 | AHU-1 | AHU-1 | AHU-1 | AHU-2 | AHU-2 | AHU-2 | AHU-2 |
|-----------------------|---------------------------|-------------------------------|-------------------------------|---------------------------|---------------------------|-------------------------------|-------------------------------|---------------------------|
| | COOLING ELECTRIC KW | TOT HTG COIL PWR BTU/HR | COOLING CAPACITY BTU/HR | HEATING ELECTRIC KW | COOLING ELECTRIC KW | TOT HTG COIL PWR BTU/HR | COOLING CAPACITY BTU/HR | HEATING ELECTRIC KW |
| | ----(47) | ----(5) | ----(70) | ----(46) | ----(47) | ----(5) | ----(70) | ----(46) |
| MONTHLY SUMMARY (JAN) | | | | | | | | |
| MN | 0.000 | -227084. | 0. | 0.000 | 0.000 | -161178. | 0. | 0.000 |
| MX | 0.000 | 0. | 246134. | 0.000 | 0.000 | 0. | 280847. | 0.000 |
| SM | 0.000 | -11481602. | 59332576. | 0.000 | 0.000 | -8998053. | 71282408. | 0.000 |
| AV | 0.000 | -15432. | 79748. | 0.000 | 0.000 | -12094. | 95810. | 0.000 |
| MONTHLY SUMMARY (FEB) | | | | | | | | |
| MN | 0.000 | -213632. | 0. | 0.000 | 0.000 | -122970. | 0. | 0.000 |
| MX | 0.000 | 0. | 246134. | 0.000 | 0.000 | 0. | 280847. | 0.000 |
| SM | 0.000 | -6911490. | 49130548. | 0.000 | 0.000 | -3166562. | 55089592. | 0.000 |
| AV | 0.000 | -10285. | 73111. | 0.000 | 0.000 | -4712. | 81979. | 0.000 |
| MONTHLY SUMMARY (MAR) | | | | | | | | |
| MN | 0.000 | -159288. | 0. | 0.000 | 0.000 | -43306. | 0. | 0.000 |
| MX | 0.000 | 0. | 231138. | 0.000 | 0.000 | 0. | 258175. | 0.000 |
| SM | 0.000 | -2684224. | 57947084. | 0.000 | 0.000 | -379920. | 82549184. | 0.000 |
| AV | 0.000 | -3608. | 77886. | 0.000 | 0.000 | -511. | 110953. | 0.000 |
| MONTHLY SUMMARY (APR) | | | | | | | | |
| MN | 0.000 | -88569. | 0. | 0.000 | 0.000 | -25063. | 0. | 0.000 |
| MX | 0.000 | 0. | 236038. | 0.000 | 0.000 | 0. | 253318. | 0.000 |
| SM | 0.000 | -346767. | 53515928. | 0.000 | 0.000 | -636903. | 116044760. | 0.000 |
| AV | 0.000 | -482. | 74328. | 0.000 | 0.000 | -885. | 161173. | 0.000 |
| MONTHLY SUMMARY (MAY) | | | | | | | | |
| MN | 0.000 | 0. | 0. | 0.000 | 0.000 | 0. | 0. | 0.000 |
| MX | 13.910 | 0. | 218431. | 0.000 | 16.849 | 0. | 245167. | 0.000 |
| SM | 927.929 | 0. | 48570480. | 0.000 | 1485.626 | 0. | 78405720. | 0.000 |
| AV | 1.247 | 0. | 65283. | 0.000 | 1.997 | 0. | 105384. | 0.000 |
| MONTHLY SUMMARY (JUN) | | | | | | | | |
| MN | 0.000 | 0. | 0. | 0.000 | 0.000 | 0. | 0. | 0.000 |
| MX | 19.554 | 0. | 211444. | 0.000 | 20.709 | 0. | 243451. | 0.000 |
| SM | 2611.822 | 0. | 50911996. | 0.000 | 3565.896 | 0. | 85732040. | 0.000 |
| AV | 3.628 | 0. | 70711. | 0.000 | 4.953 | 0. | 119072. | 0.000 |
| MONTHLY SUMMARY (JUL) | | | | | | | | |
| MN | 0.000 | 0. | 0. | 0.000 | 0.000 | 0. | 0. | 0.000 |
| MX | 18.651 | 0. | 217705. | 0.000 | 20.894 | 0. | 258375. | 0.000 |
| SM | 3228.892 | 0. | 47531500. | 0.000 | 4222.454 | 0. | 88710744. | 0.000 |
| AV | 4.340 | 0. | 63886. | 0.000 | 5.675 | 0. | 119235. | 0.000 |

| | AHU-1 | AHU-1 | AHU-1 | AHU-1 | AHU-2 | AHU-2 | AHU-2 | AHU-2 |
|-----------------------|---------------------------|-------------------------------|-------------------------------|---------------------------|---------------------------|-------------------------------|-------------------------------|---------------------------|
| | COOLING ELECTRIC KW | TOT HTG COIL PWR BTU/HR | COOLING CAPACITY BTU/HR | HEATING ELECTRIC KW | COOLING ELECTRIC KW | TOT HTG COIL PWR BTU/HR | COOLING CAPACITY BTU/HR | HEATING ELECTRIC KW |
| | ----(47) | ----(5) | ---(70) | ----(46) | ----(47) | ----(5) | ----(70) | ----(46) |
| MONTHLY SUMMARY (AUG) | | | | | | | | |
| MN | 0.000 | 0. | 0. | 0.000 | 0.000 | 0. | 0. | 0.000 |
| MX | 19.249 | 0. | 214373. | 0.000 | 20.469 | 0. | 244606. | 0.000 |
| SM | 3552.984 | 0. | 54211560. | 0.000 | 3948.743 | 0. | 81860256. | 0.000 |
| AV | 4.776 | 0. | 72865. | 0.000 | 5.307 | 0. | 110027. | 0.000 |
| MONTHLY SUMMARY (SEP) | | | | | | | | |
| MN | 0.000 | 0. | 0. | 0.000 | 0.000 | 0. | 0. | 0.000 |
| MX | 18.946 | 0. | 210126. | 0.000 | 19.914 | 0. | 244837. | 0.000 |
| SM | 1959.712 | 0. | 48168944. | 0.000 | 2218.226 | 0. | 68964800. | 0.000 |
| AV | 2.722 | 0. | 66901. | 0.000 | 3.081 | 0. | 95784. | 0.000 |
| MONTHLY SUMMARY (OCT) | | | | | | | | |
| MN | 0.000 | -76721. | 0. | 0.000 | 0.000 | -14422. | 0. | 0.000 |
| MX | 12.967 | 0. | 226044. | 0.000 | 13.118 | 0. | 248528. | 0.000 |
| SM | 528.445 | -429958. | 46590704. | 0.000 | 784.856 | -44662. | 58474132. | 0.000 |
| AV | 0.710 | -578. | 62622. | 0.000 | 1.055 | -60. | 78594. | 0.000 |
| MONTHLY SUMMARY (NOV) | | | | | | | | |
| MN | 0.000 | -126632. | 0. | 0.000 | 0.000 | -77689. | 0. | 0.000 |
| MX | 0.000 | 0. | 248502. | 0.000 | 0.000 | 0. | 255080. | 0.000 |
| SM | 0.000 | -1971097. | 51665132. | 0.000 | 0.000 | -1128064. | 59867528. | 0.000 |
| AV | 0.000 | -2738. | 71757. | 0.000 | 0.000 | -1567. | 83149. | 0.000 |
| MONTHLY SUMMARY (DEC) | | | | | | | | |
| MN | 0.000 | -200320. | 0. | 0.000 | 0.000 | -124368. | 0. | 0.000 |
| MX | 0.000 | 0. | 236053. | 0.000 | 0.000 | 0. | 269343. | 0.000 |
| SM | 0.000 | -7592266. | 54394200. | 0.000 | 0.000 | -6844629. | 61832320. | 0.000 |
| AV | 0.000 | -10205. | 73110. | 0.000 | 0.000 | -9200. | 83108. | 0.000 |
| YEARLY SUMMARY | | | | | | | | |
| MN | 0.000 | -227084. | 0. | 0.000 | 0.000 | -161178. | 0. | 0.000 |
| MX | 19.554 | 0. | 248502. | 0.000 | 20.894 | 0. | 280847. | 0.000 |
| SM | 12809.783 | -31417404. | 621970688. | 0.000 | 16225.801 | -21198792. | 908813504. | 0.000 |
| AV | 1.462 | -3586. | 71001. | 0.000 | 1.852 | -2420. | 103746. | 0.000 |

| MMDH | AHU-3 | AHU-3 | AHU-3 | AHU-3 | AHU-4 | AHU-4 | AHU-4 | AHU-4 |
|-----------------------|---------------------------|-------------------------------|-------------------------------|---------------------------|---------------------------|-------------------------------|-------------------------------|---------------------------|
| | COOLING ELECTRIC KW | TOT HTG COIL PWR BTU/HR | COOLING CAPACITY BTU/HR | HEATING ELECTRIC KW | COOLING ELECTRIC KW | TOT HTG COIL PWR BTU/HR | COOLING CAPACITY BTU/HR | HEATING ELECTRIC KW |
| | ----(47) | ----(5) | ----(70) | ----(46) | ----(47) | ----(5) | ----(70) | ----(46) |
| MONTHLY SUMMARY (JAN) | | | | | | | | |
| MN | 0.000 | -86663. | 0. | 0.000 | 0.000 | -86826. | 0. | 0.000 |
| MX | 0.000 | 0. | 88465. | 0.000 | 0.000 | 0. | 88449. | 0.000 |
| SM | 0.000 | -5423304. | 23271946. | 0.000 | 0.000 | -4029553. | 22024676. | 0.000 |
| AV | 0.000 | -7289. | 31279. | 0.000 | 0.000 | -5416. | 29603. | 0.000 |
| MONTHLY SUMMARY (FEB) | | | | | | | | |
| MN | 0.000 | -81145. | 0. | 0.000 | 0.000 | -77591. | 0. | 0.000 |
| MX | 0.000 | 0. | 88465. | 0.000 | 0.000 | 0. | 88449. | 0.000 |
| SM | 0.000 | -3119560. | 18013432. | 0.000 | 0.000 | -2190061. | 17360596. | 0.000 |
| AV | 0.000 | -4642. | 26806. | 0.000 | 0.000 | -3259. | 25834. | 0.000 |
| MONTHLY SUMMARY (MAR) | | | | | | | | |
| MN | 0.000 | -59292. | 0. | 0.000 | 0.000 | -55098. | 0. | 0.000 |
| MX | 0.000 | 0. | 81323. | 0.000 | 0.000 | 0. | 81309. | 0.000 |
| SM | 0.000 | -1026427. | 20300152. | 0.000 | 0.000 | -554386. | 20294518. | 0.000 |
| AV | 0.000 | -1380. | 27285. | 0.000 | 0.000 | -745. | 27278. | 0.000 |
| MONTHLY SUMMARY (APR) | | | | | | | | |
| MN | 0.000 | -26062. | 0. | 0.000 | 0.000 | -22275. | 0. | 0.000 |
| MX | 0.000 | 0. | 79793. | 0.000 | 0.000 | 0. | 79779. | 0.000 |
| SM | 0.000 | -134350. | 18251786. | 0.000 | 0.000 | -35835. | 18290916. | 0.000 |
| AV | 0.000 | -187. | 25350. | 0.000 | 0.000 | -50. | 25404. | 0.000 |
| MONTHLY SUMMARY (MAY) | | | | | | | | |
| MN | 0.000 | 0. | 0. | 0.000 | 0.000 | 0. | 0. | 0.000 |
| MX | 4.304 | 0. | 76797. | 0.000 | 4.429 | 0. | 76783. | 0.000 |
| SM | 337.560 | 0. | 17240518. | 0.000 | 356.339 | 0. | 17234478. | 0.000 |
| AV | 0.454 | 0. | 23173. | 0.000 | 0.479 | 0. | 23165. | 0.000 |
| MONTHLY SUMMARY (JUN) | | | | | | | | |
| MN | 0.000 | 0. | 0. | 0.000 | 0.000 | 0. | 0. | 0.000 |
| MX | 6.741 | 0. | 75996. | 0.000 | 6.754 | 0. | 75983. | 0.000 |
| SM | 931.616 | 0. | 17960150. | 0.000 | 932.638 | 0. | 17589728. | 0.000 |
| AV | 1.294 | 0. | 24945. | 0.000 | 1.295 | 0. | 24430. | 0.000 |
| MONTHLY SUMMARY (JUL) | | | | | | | | |
| MN | 0.000 | 0. | 0. | 0.000 | 0.000 | 0. | 0. | 0.000 |
| MX | 6.792 | 0. | 78247. | 0.000 | 6.770 | 0. | 78233. | 0.000 |
| SM | 1147.005 | 0. | 16857612. | 0.000 | 1142.369 | 0. | 16286578. | 0.000 |
| AV | 1.542 | 0. | 22658. | 0.000 | 1.535 | 0. | 21891. | 0.000 |

| | AHU-3 | AHU-3 | AHU-3 | AHU-3 | AHU-4 | AHU-4 | AHU-4 | AHU-4 |
|-----------------------|---------------------------|-------------------------------|-------------------------------|---------------------------|---------------------------|-------------------------------|-------------------------------|---------------------------|
| | COOLING ELECTRIC KW | TOT HTG COIL PWR BTU/HR | COOLING CAPACITY BTU/HR | HEATING ELECTRIC KW | COOLING ELECTRIC KW | TOT HTG COIL PWR BTU/HR | COOLING CAPACITY BTU/HR | HEATING ELECTRIC KW |
| | ----(47) | ----(5) | ----(70) | ----(46) | ----(47) | ----(5) | ----(70) | ----(46) |
| MONTHLY SUMMARY (AUG) | | | | | | | | |
| MN | 0.000 | 0. | 0. | 0.000 | 0.000 | 0. | 0. | 0.000 |
| MX | 6.661 | 0. | 77049. | 0.000 | 6.675 | 0. | 77036. | 0.000 |
| SM | 1243.194 | 0. | 18499094. | 0.000 | 1254.314 | 0. | 18518326. | 0.000 |
| AV | 1.671 | 0. | 24864. | 0.000 | 1.686 | 0. | 24890. | 0.000 |
| MONTHLY SUMMARY (SEP) | | | | | | | | |
| MN | 0.000 | 0. | 0. | 0.000 | 0.000 | 0. | 0. | 0.000 |
| MX | 6.488 | 0. | 75523. | 0.000 | 6.498 | 0. | 75509. | 0.000 |
| SM | 681.458 | 0. | 16825792. | 0.000 | 705.135 | 0. | 16832894. | 0.000 |
| AV | 0.946 | 0. | 23369. | 0.000 | 0.979 | 0. | 23379. | 0.000 |
| MONTHLY SUMMARY (OCT) | | | | | | | | |
| MN | 0.000 | -30630. | 0. | 0.000 | 0.000 | -26719. | 0. | 0.000 |
| MX | 4.228 | 0. | 78285. | 0.000 | 4.362 | 0. | 78271. | 0.000 |
| SM | 194.945 | -199803. | 16447790. | 0.000 | 210.003 | -116466. | 16437300. | 0.000 |
| AV | 0.262 | -269. | 22107. | 0.000 | 0.282 | -157. | 22093. | 0.000 |
| MONTHLY SUMMARY (NOV) | | | | | | | | |
| MN | 0.000 | -58884. | 0. | 0.000 | 0.000 | -51841. | 0. | 0.000 |
| MX | 0.000 | 0. | 82675. | 0.000 | 0.000 | 0. | 82552. | 0.000 |
| SM | 0.000 | -1266579. | 17893458. | 0.000 | 0.000 | -613145. | 17937486. | 0.000 |
| AV | 0.000 | -1759. | 24852. | 0.000 | 0.000 | -852. | 24913. | 0.000 |
| MONTHLY SUMMARY (DEC) | | | | | | | | |
| MN | 0.000 | -74367. | 0. | 0.000 | 0.000 | -76502. | 0. | 0.000 |
| MX | 0.000 | 0. | 84841. | 0.000 | 0.000 | 0. | 84826. | 0.000 |
| SM | 0.000 | -4081100. | 20220812. | 0.000 | 0.000 | -2693709. | 19258016. | 0.000 |
| AV | 0.000 | -5485. | 27179. | 0.000 | 0.000 | -3621. | 25884. | 0.000 |
| YEARLY SUMMARY | | | | | | | | |
| MN | 0.000 | -86663. | 0. | 0.000 | 0.000 | -86826. | 0. | 0.000 |
| MX | 6.792 | 0. | 88465. | 0.000 | 6.770 | 0. | 88449. | 0.000 |
| SM | 4535.778 | -15251123. | 221782544. | 0.000 | 4600.798 | -10233154. | 218065504. | 0.000 |
| AV | 0.518 | -1741. | 25318. | 0.000 | 0.525 | -1168. | 24893. | 0.000 |

ENTECH ENGINEERING
 READING, PA 19603
 REPORT- FV-A EQUIPMENT SIZES

EZDOR - ELITE SOFTWARE DEVELOPMENT INC
 UMCS FEASIBILITY STUDY

DOB-2.1D 12/ 1/1995 13:54: 6 PDL RUN 1
 BUILDING 909 - YOUTH ACTIVITY CENTER
 WEATHER FILE- BALTIMORE, MD

| EQUIPMENT | NUMBER | | NUMBER | | NUMBER | | NUMBER | | NUMBER | | NUMBER | |
|---------------|---------------|-------------|---------------|-------------|---------------|-------------|---------------|-------------|---------------|-------------|---------------|-------------|
| | SIZE (MBTU/H) | INSTD AVAIL | SIZE (MBTU/H) | INSTD AVAIL | SIZE (MBTU/H) | INSTD AVAIL | SIZE (MBTU/H) | INSTD AVAIL | SIZE (MBTU/H) | INSTD AVAIL | SIZE (MBTU/H) | INSTD AVAIL |
| HW-BOILER | 1.100 | 1 1 | | | | | | | | | | |
| HERM-REC-CHLR | 0.100 | 1 1 | 0.100 | 1 1 | 0.300 | 1 1 | 0.400 | 1 1 | | | | |

| S I T E E N E R G Y | | | | | | | | | | | | | |
|---------------------|-----------------------|--------------------------|-------------------------|------------------|-----------------------------|--------------------------|--------------------------|--------------------------|--------------------------|------------------------|------------------------|-------------------------|---------------------------|
| MONTH | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| | TOTAL HEAT LOAD | TOTAL COOLING LOAD | TOTAL ELECTR LOAD | RCVRED ENERGY | WASTED RCVRABL ENERGY | FUEL INPUT COOLING | ELEC INPUT COOLING | FUEL INPUT HEATING | ELEC INPUT HEATING | FUEL INPUT ELECT | TOTAL FUEL INPUT | TOTAL SITE ENERGY | TOTAL SOURCE ENERGY |
| JAN | 36.3 | 0.0 | 28.9 8.5E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 58.3 | 4.6 1.3E | 0.0 | 58.3 | 87.2 | 145.1 |
| FEB | 20.8 | 0.0 | 24.7 7.2E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 33.7 | 3.2 0.9E | 0.0 | 33.7 | 58.5 | 108.0 |
| MAR | 9.9 | 0.0 | 29.1 8.5E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 16.3 | 2.4 0.7E | 0.0 | 16.3 | 45.3 | 103.6 |
| APR | 5.4 | 0.0 | 27.8 8.1E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 8.8 | 2.0 0.6E | 0.0 | 8.8 | 36.6 | 92.2 |
| MAY | 0.0 | 0.0 | 35.2 10.3E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 0.0 | 0.0 0.0E | 0.0 | 0.0 | 35.2 | 105.8 |
| JUN | 0.0 | 0.0 | 53.4 15.7E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 0.0 | 0.0 0.0E | 0.0 | 0.0 | 53.4 | 160.5 |
| JUL | 0.0 | 0.0 | 57.2 16.8E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 0.0 | 0.0 0.0E | 0.0 | 0.0 | 57.2 | 171.8 |
| AUG | 0.0 | 0.0 | 61.0 17.9E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 0.0 | 0.0 0.0E | 0.0 | 0.0 | 61.0 | 183.2 |
| SEP | 0.0 | 0.0 | 43.3 12.7E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 0.0 | 0.0 0.0E | 0.0 | 0.0 | 43.3 | 130.1 |
| OCT | 3.2 | 0.0 | 29.8 8.7E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 5.2 | 1.1 0.3E | 0.0 | 5.2 | 35.0 | 94.7 |
| NOV | 9.7 | 0.0 | 25.1 7.4E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 15.8 | 2.4 0.7E | 0.0 | 15.8 | 41.0 | 91.3 |
| DEC | 27.2 | 0.0 | 27.7 8.1E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 43.9 | 3.9 1.1E | 0.0 | 43.9 | 71.6 | 127.1 |
| | 112.5 | 0.0 | 443.3 129.8E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 182.1 | 19.6 5.7E | 0.0 | 182.1 | 625.4 | 1513.3 |

NOTE-- ALL ENTRIES ARE IN MBTU EXCEPT
 ENTRIES FOLLOWED BY E ARE IN MWH (THOUSANDS OF KWH)

ENTTECH ENGINEERING
 READING, PA 19603
 REPORT- PS-B MONTHLY PEAK AND TOTAL ENERGY USE

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
 UMCS FEASIBILITY STUDY

DOE-2.1D 12/ 1/1995 13:54: 6 PDL RUN 1
 BUILDING 909 - YOUTH ACTIVITY CENTER
 WEATHER FILE- BALTIMORE, MD

| MO | UTILITY- | ELECTRICITY | NATURAL-GAS |
|-----|--------------|-------------|-------------|
| | TOTAL (MBTU) | 28.908 | 58.316 |
| JAN | PEAK (KBTU) | 127.515 | 799.826 |
| | DY/HR | 31/11 | 31/ 7 |
| | TOTAL (MBTU) | 24.721 | 33.729 |
| FEB | PEAK (KBTU) | 127.515 | 670.692 |
| | DY/HR | 14/ 8 | 14/ 7 |
| | TOTAL (MBTU) | 29.089 | 16.254 |
| MAR | PEAK (KBTU) | 120.094 | 463.190 |
| | DY/HR | 7/ 8 | 7/ 7 |
| | TOTAL (MBTU) | 27.758 | 8.837 |
| APR | PEAK (KBTU) | 110.591 | 253.927 |
| | DY/HR | 11/ 8 | 11/ 7 |
| | TOTAL (MBTU) | 35.215 | 0.000 |
| MAY | PEAK (KBTU) | 230.088 | 0.000 |
| | DY/HR | 6/16 | 31/ 1 |
| | TOTAL (MBTU) | 53.440 | 0.000 |
| JUN | PEAK (KBTU) | 284.216 | 0.000 |
| | DY/HR | 29/16 | 30/ 1 |
| | TOTAL (MBTU) | 57.216 | 0.000 |
| JUL | PEAK (KBTU) | 282.475 | 0.000 |
| | DY/HR | 25/14 | 31/ 1 |
| | TOTAL (MBTU) | 61.009 | 0.000 |
| AUG | PEAK (KBTU) | 282.311 | 0.000 |
| | DY/HR | 18/16 | 31/ 1 |
| | TOTAL (MBTU) | 43.320 | 0.000 |
| SEP | PEAK (KBTU) | 278.182 | 0.000 |
| | DY/HR | 1/16 | 30/ 1 |
| | TOTAL (MBTU) | 29.813 | 5.214 |
| OCT | PEAK (KBTU) | 218.029 | 242.130 |
| | DY/HR | 13/16 | 24/ 7 |
| | TOTAL (MBTU) | 25.114 | 15.837 |
| NOV | PEAK (KBTU) | 123.800 | 512.407 |
| | DY/HR | 28/ 8 | 28/ 7 |
| | TOTAL (MBTU) | 27.693 | 43.916 |
| DEC | PEAK (KBTU) | 127.515 | 663.028 |
| | DY/HR | 27/ 9 | 27/ 7 |
| | ONE YEAR | 443.295 | 182.104 |
| | USE/PEAK | 284.216 | 799.826 |

ENTTECH ENGINEERING
READING, PA 19603
REPORT- PS-D PLANT LOADS SATISFIED

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
UMCS FEASIBILITY STUDY

DOB-2.1D 12/ 1/1995 13:54: 6 PDL RUN 1
BUILDING 909 - YOUTH ACTIVITY CENTER
WEATHER FILE- BALTIMORE, MD

| HEATING LOADS | MBTU SUPPLIED | PCT OF TOTAL LOAD |
|---------------------|---------------|-------------------|
| ----- | ----- | ----- |
| HW-BOILER | 112.5 | 100.0 |
| | ----- | ----- |
| LOAD SATISFIED | 112.5 | 100.0 |
| TOTAL LOAD ON PLANT | 112.5 | |

| ELECTRICAL LOADS | MBTU SUPPLIED | PCT OF TOTAL LOAD |
|---------------------|---------------|-------------------|
| ----- | ----- | ----- |
| ELECTRICITY | 443.3 | 100.0 |
| | ----- | ----- |
| LOAD SATISFIED | 443.3 | 100.0 |
| TOTAL LOAD ON PLANT | 443.3 | |

ENTECH ENGINEERING
READING, PA 19603
REPORT- PS-D PLANT LOADS SATISFIED

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
UMCS FEASIBILITY STUDY

DOB-2.1D 12/ 1/1995 13:54: 6 PDL RUN 1
BUILDING 909 - YOUTH ACTIVITY CENTER
WEATHER FILE- BALTIMORE, MD
----- (CONTINUED) -----

SUMMARY OF LOADS MET

| TYPE OF LOAD | TOTAL LOAD (MBTU) | LOAD SATISFIED (MBTU) | TOTAL OVERLOAD (MBTU) | PEAK OVERLOAD (MBTU) | HOURS OVERLOADED |
|------------------|-------------------------|-----------------------------|-----------------------------|----------------------------|---------------------|
| HEATING LOADS | 112.5 | 112.5 | 0.000 | 0.000 | 0 |
| ELECTRICAL LOADS | 443.3 | 443.3 | 0.000 | 0.000 | 0 |

ENTECH ENGINEERING
 READING, PA 19603
 REPORT- PS-H EQUIPMENT USE STATISTICS

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
 UMCS FEASIBILITY STUDY

DOE-2.1D 12/ 1/1995 13:54: 6 PDL RUN 1
 BUILDING 909 - YOUTH ACTIVITY CENTER
 WEATHER FILE- BALTIMORE, MD

| EQUIPMENT | AVG | MAX | MON | | SIZE OPER | | SIZE OPER | | SIZE OPER | | SIZE OPER | | |
|---------------|------------|-------------|-----|----|-----------|-------|-----------|-------|-----------|-------|-----------|-------|---|
| | OPER RATIO | LOAD (MBTU) | DAY | HR | (MBTU) | HRS | (MBTU) | HRS | (MBTU) | HRS | (MBTU) | HRS | |
| HW-BOILER | 0.022 | 0.575 | 1 | 31 | 7 | 1.100 | 4728 | | | | | | |
| HERM-REC-CHLR | 0.000 | 0.000 | 0 | 0 | 0 | 0.100 | 0 | 0.100 | 0 | 0.300 | 0 | 0.400 | 0 |

E Q U I P M E N T T O T A L S

| | | | | | |
|-----------------------|------|-------|-------|-------|-------|
| HW-BOILER | 43.3 | | | | |
| NOMINAL SIZE (MBTU) | | 1.100 | | | |
| NUMBER INSTALLED | | 1 | | | |
| FIRST COST (K\$) | 37.8 | 37.8 | | | |
| ANNUAL COST (K\$) | 0.9 | 0.9 | | | |
| CYCLICAL COST (K\$) | 4.6 | 4.6 | | | |
| -----TOTAL----- (K\$) | | 43.3 | | | |
| HERM-REC-CHLR | 38.5 | | | | |
| NOMINAL SIZE (MBTU) | | 0.100 | 0.100 | 0.300 | 0.400 |
| NUMBER INSTALLED | | 1 | 1 | 1 | 1 |
| FIRST COST (K\$) | 32.1 | 4.9 | 4.9 | 10.1 | 12.3 |
| ANNUAL COST (K\$) | 6.4 | 1.4 | 1.4 | 1.7 | 1.8 |
| CYCLICAL COST (K\$) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| -----TOTAL----- (K\$) | | 6.2 | 6.2 | 11.9 | 14.1 |
| EQUIPMENT TOTAL | 81.8 | | | | |

| ENERGY TYPE IN SITE MBTU - | ELECTRICITY | NATURAL-GAS |
|-------------------------------|-------------|-------------|
| CATEGORY OF USE | | |
| SPACE HEAT | 9.57 | 182.10 |
| SPACE COOL | 130.33 | 0.00 |
| HVAC AUX | 73.32 | 0.00 |
| DOM HOT WTR | 0.00 | 0.00 |
| AUX SOLAR | 0.00 | 0.00 |
| LIGHTS | 210.31 | 0.00 |
| VERT TRANS | 0.00 | 0.00 |
| MISC EQUIP | 19.75 | 0.00 |
| TOTAL | 443.29 | 182.10 |

TOTAL SITE ENERGY 625.40 MBTU 31.8 KBTU/SQFT-YR GROSS-AREA 31.8 KBTU/SQFT-YR NET-AREA
TOTAL SOURCE ENERGY 1513.32 MBTU 77.0 KBTU/SQFT-YR GROSS-AREA 77.0 KBTU/SQFT-YR NET-AREA

PERCENT OF HOURS ANY SYSTEM ZONE OUTSIDE OF THROTTLING RANGE = 10.5
PERCENT OF HOURS ANY PLANT LOAD NOT SATISFIED = 0.0

NOTE ELECTRICITY AND/OR FUEL USED TO GENERATE ELECTRICITY IS APPORTIONED BASED
ON THE YEARLY DEMAND. ALL OTHER ENERGY TYPES ARE APPORTIONED HOURLY.

MMDHHR HW-BOILE HW-BOILE
 R R
 LOAD ELECTRIC
 USE
 BTU/HR BTU/HR

---- (1) ---- (3)

MONTHLY SUMMARY (JAN)

| | | |
|----|-----------|----------|
| MN | 3803. | 335. |
| MX | 574691. | 24200. |
| SM | 36259208. | 3009031. |
| AV | 48735. | 4044. |

MONTHLY SUMMARY (FEB)

| | | |
|----|-----------|----------|
| MN | 3803. | 335. |
| MX | 462636. | 24200. |
| SM | 20806412. | 1777791. |
| AV | 30962. | 2646. |

MONTHLY SUMMARY (MAR)

| | | |
|----|----------|---------|
| MN | 3803. | 335. |
| MX | 286547. | 24200. |
| SM | 9949702. | 874558. |
| AV | 13373. | 1175. |

MONTHLY SUMMARY (APR)

| | | |
|----|----------|---------|
| MN | 3803. | 335. |
| MX | 155389. | 13674. |
| SM | 5407864. | 475892. |
| AV | 7511. | 661. |

MONTHLY SUMMARY (MAY)

| | | |
|----|----|----|
| MN | 0. | 0. |
| MX | 0. | 0. |
| SM | 0. | 0. |
| AV | 0. | 0. |

MONTHLY SUMMARY (JUN)

| | | |
|----|----|----|
| MN | 0. | 0. |
| MX | 0. | 0. |
| SM | 0. | 0. |
| AV | 0. | 0. |

MONTHLY SUMMARY (JUL)

| | | |
|----|----|----|
| MN | 0. | 0. |
| MX | 0. | 0. |
| SM | 0. | 0. |
| AV | 0. | 0. |

| | HW-BOILE R LOAD BTU/HR ---- (1) | HW-BOILE R ELECTRIC USE BTU/HR ---- (3) |
|-----------------------|-----------------------------------------------|----------------------------------------------------------|
| MONTHLY SUMMARY (AUG) | | |
| MN | 0. | 0. |
| MX | 0. | 0. |
| SM | 0. | 0. |
| AV | 0. | 0. |
| MONTHLY SUMMARY (SEP) | | |
| MN | 0. | 0. |
| MX | 0. | 0. |
| SM | 0. | 0. |
| AV | 0. | 0. |
| MONTHLY SUMMARY (OCT) | | |
| MN | 0. | 0. |
| MX | 148170. | 13039. |
| SM | 3190613. | 280774. |
| AV | 4288. | 377. |
| MONTHLY SUMMARY (NOV) | | |
| MN | 3803. | 335. |
| MX | 327886. | 24200. |
| SM | 9705691. | 849447. |
| AV | 13480. | 1180. |
| MONTHLY SUMMARY (DEC) | | |
| MN | 3803. | 335. |
| MX | 456047. | 24200. |
| SM | 27151000. | 2300532. |
| AV | 36493. | 3092. |
| YEARLY SUMMARY | | |
| MN | 0. | 0. |
| MX | 574691. | 24200. |
| SM | 112470488. | 9568024. |
| AV | 12839. | 1092. |

EMCS Annual Energy Savings Summary Report

```

=====
Base: FTMEADE
Building: 940
Case: 1
Description: MORALE SUPPORT OFFICES
-----
Fuel Type: Fuel oil, distillate #2
Heating Value: 138,700 Btu/gal
=====
    
```

Caution

```

=====
The ESA program makes no attempt to exclude incompatible strategies.
It is the user's responsibility to select all appropriate strategies.
=====
    
```

Annual Energy Savings Table for Single Zone DX-A/C

```

=====
Description: AHU-1
=====
Strategy                MBtu/yr      kWh/yr      kW   mh/yr
=====
Scheduled Start/Stop    122.338      4,472       0.0   0
  Duty Cycling          0.000        1,047       0.0   0
  Demand Limiting       0.000         0           0.3   0
  Run Time Recording    0.000         0           0.0   2
  Safety Alarm          0.000         0           0.0   2
-----
Subtotals                122.338      5,519       0.3   4
Heating Value /        138,700 Btu/gal
=====
Totals                   882          5,519       0.3   4
                        gal/yr      kWh/yr      kW   mh/yr
=====
    
```


Annual Energy Savings Table for Steam Unit Heater

```

=====
Description: STEAM UNIT HEATERS
=====
Strategy                MBtu/yr          kWh/yr          kW   mh/yr
=====
    Day/Night Setback    347.411          0                0.0   0
    Run Time Recording    0.000            0                0.0   2
    Safety Alarm          0.000            0                0.0   2
-----
    Subtotals             347.411          0                0.0   4
    Heating Value /      138,700 Btu/gal
=====
    Totals                2,505            0                0.0   4
                        gal/yr          kWh/yr          kW   mh/yr
=====
    
```

EMCS Annual Energy Savings for Building 940

```

=====
Description                Value          Units
=====
    Fuel oil, distillate #2    3,387          gal/yr
    Electrical Energy          5,519          kWh/yr
    Electrical Demand Reduction 0.3            kW
    Labor Savings              8              mh/yr
=====
    
```

FT. MEADE, MARYLAND

Building: 1978 1976 Square feet 43,547 11,724

| Exterior Wall | |
|-----------------|-------------|
| Components | R-Value |
| Outside Surface | 0.17 |
| Concrete Block | 1.72 |
| Air Space | 1.10 |
| Plaster | 0.56 |
| Inside Surface | 0.68 |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| Total R-Value | 4.23 |
| Total U-Value | 0.24 |

| Exterior Roof | |
|-------------------|--------------|
| Components | R-Value |
| Outside Surface | 0.17 |
| Built-up Roof | 0.33 |
| 1 1/2" Insulation | 9.00 |
| Metal Deck | 0.00 |
| Air Space | 1.10 |
| Acoustical Tile | 1.89 |
| Inside Surface | 0.61 |
| | |
| | |
| | |
| | |
| | |
| | |
| Total R-Value | 13.10 |
| Total U-Value | 0.08 |

| Calculated Total Area | |
|------------------------------|-------|
| No. of Floors | 1 |
| Avg. Floor to Floor Height | 16 |
| No. of Basement Levels | |
| Gross Floor Area | 55271 |
| Roof Area | 55271 |
| Estimated Infiltration (cfm) | 5000 |
| Gross Wall Area | 19780 |
| Door Area | 702 |
| Gross Window Area | 334 |
| Other | |
| Net Wall Area | 18744 |

| Window and Door | |
|-----------------------------|---------|
| | U-Value |
| Window Single Pane W/Storm | |
| Window Single Pane Wo/Storm | |
| Window Double Pane | 0.55 |
| Skylight | |
| Glass Block | |
| Other | |
| Door Type 1 | 1.00 |
| Door Type 2 | |
| Door Type 3 | |

$$UoAo = (18744 * 0.24) + (55271 * 0.08) + (702 * 1.0) + (334 * 0.55) = 9806$$

**FT. MEADE, MARYLAND
EQUIPMENT SCHEDULE**

BUILDING NO. 1978, 1976

Page 1 of 1

| EQUIPMENT | SYSTEM NUMBER | | | | | | | |
|------------------------------|----------------------------------|---------------|-------------|-------------|----------|-------------|---|---|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| Equipment Name | AHU-1 | AHU-2 | AHU-3 | Boiler | S-W Conv | Boiler | | |
| COOLING: | | | | | | | | |
| Type of Cooling | 1 | 1 | | | | | | |
| Air Side | 3 | 3 | 5 | | | | | |
| Location in Building | 1/2 Bldg 1978 | 1/2 Bldg 1978 | Info Center | 1978 & 1976 | | Info Center | | |
| Area Sq. Feet | 10000 | 17500 | | | | | | |
| Supply CFM | 7800 | 11000 | | | | | | |
| Supply Fan HP | 10 | 10 | 10 | | | | | |
| O.A. CFM or % | 20% | 12% | | | | | | |
| Return CFM | | | | | | | | |
| Return Fan HP | 5 | 5 | | | | | | |
| Chiller Tonnage | 20 | 20 | | | | | | |
| Tower or Condenser Fan HP | | | | | | | | |
| Condenser Pump HP | | | | | | | | |
| Chilled Water Pump HP | | | | | | | | |
| HEATING: | | | | | | | | |
| Type of Heating | | | | (2) | | | | |
| Source | | | | 2 | 3 | 1 | | |
| MBTUH | | | | 1 | 2 | 1 | | |
| Hot Water Pump HP | | | | 940765 | | 945 | | |
| Condensate Pump HP | | | | 1/2 | 1 | 1 | | |
| ADDITIONAL: | | | | | | | | |
| Aux. HP Cooling | | | | | | | | |
| Aux. HP Heating | | | | | | | | |
| Operating Schedule Hrs./Week | | | | | | | | |
| Type of Cooling | Type of Heating | | | | | | | |
| (1) Air Cooled DX | (1) Boiler Hot Water | | | | | | | |
| (2) Water Cooled DX | (2) Boiler Steam | | | | | | | |
| (3) Air Cooled Chiller | (3) Steam to Hot Water Converter | | | | | | | |
| Air Side | Heating Source | | | | | | | |
| (1) Single Zone | (1) Natural Gas | | | | | | | |
| (2) Multi-Zone | (2) Central Plant Steam | | | | | | | |
| (3) VAV | (3) Central Plant Hot Water | | | | | | | |
| | (4) Furnace | | | | | | | |
| | (4) Oil | | | | | | | |
| | (5) Electric | | | | | | | |

EMCS Annual Energy Savings Summary Report

```

=====
Base: FTMEADE
Building: 1978
Case: 1
Description:
=====

```

```

=====
Fuel Type: Natural gas (methane)
Heating Value: 1,031 Btu/cf
=====

```

Caution

```

=====
The ESA program makes no attempt to exclude incompatible strategies.
It is the user's responsibility to select all appropriate strategies.
=====

```

Annual Energy Savings Table for Terminal Reheat AHU

```

=====
Description: AHU-3
=====

```

| Strategy | MBtu/yr | kWh/yr | kW | mh/yr |
|--------------------|-------------------|-------------|-----------|------------|
| Demand Limiting | 0.000 | 0 | 1.5 | 0 |
| Day/Night Setback | 105.222 | 0 | 0.0 | 0 |
| Run Time Recording | 0.000 | 0 | 0.0 | 2 |
| Safety Alarm | 0.000 | 0 | 0.0 | 2 |
| Subtotals | 105.222 | 0 | 1.5 | 4 |
| Heating Value / | 1,031 Btu/cf | | | |
| Totals | 102,059 cf /yr | 0 kWh/yr | 1.5 kW | 4 mh/yr |

```

=====

```

Annual Energy Savings Table for Variable Air Volume AHU

| Description: AHU-1 | | | | |
|--------------------|------------------|---------------|-----------|------------|
| Strategy | MBtu/yr | kWh/yr | kW | mh/yr |
| Demand Limiting | 0.000 | 0 | 1.5 | 0 |
| Day/Night Setback | 65.764 | 305 | 0.0 | 0 |
| Vent/Recirculation | 26.960 | 0 | 0.0 | 0 |
| Run Time Recording | 0.000 | 0 | 0.0 | 2 |
| Safety Alarm | 0.000 | 0 | 0.0 | 2 |
| Subtotals | 92.724 | 305 | 1.5 | 4 |
| Heating Value / | 1,031 Btu/cf | | | |
| Totals | 89,936 cf /yr | 305 kWh/yr | 1.5 kW | 4 mh/yr |

Annual Energy Savings Table for Variable Air Volume AHU

| Description: AHU-2 | | | | |
|--------------------|-------------------|---------------|-----------|------------|
| Strategy | MBtu/yr | kWh/yr | kW | mh/yr |
| Demand Limiting | 0.000 | 0 | 1.5 | 0 |
| Day/Night Setback | 115.087 | 534 | 0.0 | 0 |
| Vent/Recirculation | 22.812 | 0 | 0.0 | 0 |
| Run Time Recording | 0.000 | 0 | 0.0 | 2 |
| Safety Alarm | 0.000 | 0 | 0.0 | 2 |
| Subtotals | 137.899 | 534 | 1.5 | 4 |
| Heating Value / | 1,031 Btu/cf | | | |
| Totals | 133,753 cf /yr | 534 kWh/yr | 1.5 kW | 4 mh/yr |

Annual Energy Savings Table for Steam Unit Heater

```

=====
Description: 1976 STEAM UNIT HEATERS
=====
Strategy                MBtu/yr      kWh/yr      kW   mh/yr
=====
    Day/Night Setback    144.566      0           0.0   0
    Run Time Recording    0.000        0           0.0   2
    Safety Alarm          0.000        0           0.0   2
-----
    Subtotals             144.566      0           0.0   4
    Heating Value /      1,031 Btu/cf
=====
    Totals                140,219      0           0.0   4
                        cf /yr      kWh/yr      kW   mh/yr
=====
    
```

Annual Energy Savings Table for Steam Boiler

```

=====
Description:
=====
Strategy                MBtu/yr      kWh/yr      kW   mh/yr
=====
-----
    Totals                0.000        0           0.0   0
                        MBtu/yr      kWh/yr      kW   mh/yr
=====
    
```

Annual Energy Savings Table for Hot Water Boiler

```

=====
Description: BOILER-1
=====
Strategy                MBtu/yr      kWh/yr      kW   mh/yr
=====
    Hot Water OA Reset    75.600      0           0.0   0
    Run Time Recording    0.000        0           0.0   2
    Safety Alarm          0.000        0           0.0   2
-----
    Subtotals             75.600      0           0.0   4
    Heating Value /      1,031 Btu/cf
=====
    Totals                73,327      0           0.0   4
                        cf /yr      kWh/yr      kW   mh/yr
=====
    
```

Annual Energy Savings Table for Steam/Hot Water Converter

| Description: CONVERTOR | | | | |
|------------------------|-------------------|-------------|-----------|------------|
| Strategy | MBtu/yr | kWh/yr | kW | mh/yr |
| Day/Night Setback | 180.851 | 0 | 0.0 | 0 |
| Hot Water OA Reset | 150.400 | 0 | 0.0 | 0 |
| Run Time Recording | 0.000 | 0 | 0.0 | 2 |
| Safety Alarm | 0.000 | 0 | 0.0 | 2 |
| Subtotals | 331.251 | 0 | 0.0 | 4 |
| Heating Value / | 1,031 Btu/cf | | | |
| Totals | 321,291 cf /yr | 0 kWh/yr | 0.0 kW | 4 mh/yr |

Annual Energy Savings Table for Air Cooled DX Compressor

| Description: DX CONDENSING UNIT | | | | |
|---------------------------------|------------------|-----------------|-----------|------------|
| Strategy | MBtu/yr | kWh/yr | kW | mh/yr |
| Scheduled Start/Stop | 0.000 | 3,925 | 0.0 | 0 |
| Duty Cycling | 0.000 | 4,655 | 0.0 | 0 |
| Demand Limiting | 0.000 | 0 | 1.5 | 0 |
| Run Time Recording | 0.000 | 0 | 0.0 | 2 |
| Safety Alarm | 0.000 | 0 | 0.0 | 2 |
| Totals | 0.000 MBtu/yr | 8,580 kWh/yr | 1.5 kW | 4 mh/yr |

Annual Energy Savings Table for Lighting Control

| Description: LIGHTING | | | | |
|-----------------------|------------------|-------------------|-----------|------------|
| Strategy | MBtu/yr | kWh/yr | kW | mh/yr |
| Lighting Control | 0.000 | 199,680 | 0.0 | 0 |
| Totals | 0.000 MBtu/yr | 199,680 kWh/yr | 0.0 kW | 0 mh/yr |

EMCS Annual Energy Savings for Building 1978

| Description | Value | Units |
|-----------------------------|---------|--------|
| Natural gas (methane) | 860,585 | cf /yr |
| Electrical Energy | 209,099 | kWh/yr |
| Electrical Demand Reduction | 6.0 | kW |
| Labor Savings | 28 | mh/yr |

FT. MEADE, MARYLAND

Building: 2212

Square feet 9,056

| Exterior Wall | |
|-----------------|-------------|
| Components | R-Value |
| Outside Surface | 0.17 |
| Vinyl Siding | 0.61 |
| Wood Siding | 0.93 |
| Air Space | 1.10 |
| Plaster | 0.56 |
| Inside Surface | 0.68 |
| | |
| Total R-Value | 4.05 |
| Total U-Value | 0.25 |

| Exterior Roof | |
|-----------------|-------------|
| Components | R-Value |
| Outside Surface | 0.17 |
| Shingles | 0.44 |
| Insulation | 6.00 |
| Wood Deck | 0.93 |
| Plaster | 0.56 |
| Inside Surface | 0.61 |
| | |
| Total R-Value | 8.71 |
| Total U-Value | 0.11 |

| Calculated Total Area | |
|------------------------------|------|
| No. of Floors | 1 |
| Avg. Floor to Floor Height | 10 |
| No. of Basement Levels | |
| Gross Floor Area | 9056 |
| Roof Area | 9100 |
| Estimated Infiltration (cfm) | 1200 |
| Gross Wall Area | 9400 |
| Door Area | 130 |
| Gross Window Area | 450 |
| Other | |
| Net Wall Area | 8820 |

| Window and Door | |
|-----------------------------|---------|
| | U-Value |
| Window Single Pane W/Storm | 0.60 |
| Window Single Pane Wo/Storm | |
| Window Double Pane | |
| Skylight | |
| Glass Block | |
| Other | |
| Door Type 1 | 0.50 |
| Door Type 2 | |
| Door Type 3 | |

$$UoAo = (8820 \cdot 0.25) + (9100 \cdot 0.11) + (450 \cdot 0.6) + (130 \cdot 0.5) = 3541$$

**FT. MEADE, MARYLAND
EQUIPMENT SCHEDULE**

BUILDING NO. 2212

Page 1 of 1

| EQUIPMENT | SYSTEM NUMBER | | | | | | | |
|------------------------------|----------------------------------|----------|----------|---|---|---|---|---|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| Equipment Name | AHU-1 | AHU-2 | HP-1 | | | | | |
| COOLING: | | | | | | | | |
| Type of Cooling | 1 | 1 | 1 | | | | | |
| Air Side | 1 | 1 | 1 | | | | | |
| Location in Building | 1/2 Bldg | 1/2 Bldg | Exec Off | | | | | |
| Area Sq. Feet | 3900 | 3800 | 600 | | | | | |
| Supply CFM | 5000 | 4200 | 600 | | | | | |
| Supply Fan HP | 1 1/2 | 1 1/2 | 3/4 | | | | | |
| O.A. CFM or % | 0% | 0% | 0% | | | | | |
| Return CFM | | | | | | | | |
| Return Fan HP | | | | | | | | |
| Chiller Tonnage | | | | | | | | |
| Tower or Condenser Fan HP | | | | | | | | |
| Condenser Pump HP | | | | | | | | |
| Chilled Water Pump HP | | | | | | | | |
| HEATING: | | | | | | | | |
| Type of Heating | | | | | | | | |
| Source | 5 | 5 | 5 | | | | | |
| MBTUH | | | | | | | | |
| Hot Water Pump HP | | | | | | | | |
| Condensate Pump HP | | | | | | | | |
| ADDITIONAL: | | | | | | | | |
| Aux. HP Cooling | | | | | | | | |
| Aux. HP Heating | | | | | | | | |
| Operating Schedule Hrs./Week | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| Type of Cooling | Type of Heating | | | | | | | |
| (1) Air Cooled DX | (1) Boiler Hot Water | | | | | | | |
| (2) Water Cooled DX | (2) Boiler Steam | | | | | | | |
| (3) Air Cooled Chiller | (3) Steam to Hot Water Converter | | | | | | | |
| (4) Water Cooled Chiller | (4) Furnace | | | | | | | |
| (5) Constant Volume Reheat | (5) Electric | | | | | | | |
| (6) Heating and Ventilating | (6) Heating Source | | | | | | | |
| | | | | | | | | |
| Air Side | Heating Source | | | | | | | |
| (1) Single Zone | (1) Natural Gas | | | | | | | |
| (2) Multi-Zone | (2) Central Plant Steam | | | | | | | |
| (3) VAV | (3) Central Plant Hot Water | | | | | | | |
| | | | | | | | | |

EMCS Annual Energy Savings Summary Report

```

=====
Base: FTMEADE
Building: 2212
Case: 1
Description: ADMINISTRATIVE
-----
Fuel Type: Electricity
Heating Value: 3,413      Btu/kWh
=====
    
```

Caution

```

=====
The ESA program makes no attempt to exclude incompatible strategies.
It is the user's responsibility to select all appropriate strategies.
=====
    
```

Annual Energy Savings Table for Single Zone DX-A/C

```

=====
Description: AHU-1
=====
Strategy                MBtu/yr      kWh/yr      kW   mh/yr
=====
Scheduled Start/Stop      0.000        377         0.0   0
Run Time Recording        0.000         0           0.0   2
Safety Alarm              0.000         0           0.0   2
-----
Totals                    0.000        377         0.0   4
                          MBtu/yr      kWh/yr      kW   mh/yr
=====
    
```

Annual Energy Savings Table for Single Zone DX-A/C

```

=====
Description: HP-1 HEAT PUMP
=====
Strategy                MBtu/yr      kWh/yr      kW   mh/yr
=====
Scheduled Start/Stop      6.857        895         0.0   0
Run Time Recording        0.000         0           0.0   2
Safety Alarm              0.000         0           0.0   2
-----
Subtotals                  6.857        895         0.0   4
Heating Value /          3,413 Btu/kWh
-----
Totals                    2,009        895         0.0   4
                          kWh/yr      kWh/yr      kW   mh/yr
=====
    
```

Annual Energy Savings Table for Single Zone DX-A/C

| Description: AHU-2 | | | | |
|----------------------|---------|--------|-----|-------|
| Strategy | MBtu/yr | kWh/yr | kW | mh/yr |
| Scheduled Start/Stop | 0.000 | 377 | 0.0 | 0 |
| Run Time Recording | 0.000 | 0 | 0.0 | 2 |
| Safety Alarm | 0.000 | 0 | 0.0 | 2 |
| Totals | 0.000 | 377 | 0.0 | 4 |
| | MBtu/yr | kWh/yr | kW | mh/yr |

Annual Energy Savings Table for Electric Radiation

| Description: ELECTRIC FIN TUBE | | | | |
|--------------------------------|---------|--------|-----|-------|
| Strategy | MBtu/yr | kWh/yr | kW | mh/yr |
| Day/Night Setback | 0.000 | 25,408 | 0.0 | 0 |
| Run Time Recording | 0.000 | 0 | 0.0 | 2 |
| Safety Alarm | 0.000 | 0 | 0.0 | 2 |
| Totals | 0.000 | 25,408 | 0.0 | 4 |
| | MBtu/yr | kWh/yr | kW | mh/yr |

Annual Energy Savings Table for Lighting Control

| Description: lighting | | | | |
|-----------------------|---------|--------|-----|-------|
| Strategy | MBtu/yr | kWh/yr | kW | mh/yr |
| Lighting Control | 0.000 | 22,464 | 0.0 | 0 |
| Totals | 0.000 | 22,464 | 0.0 | 0 |
| | MBtu/yr | kWh/yr | kW | mh/yr |

EMCS Annual Energy Savings for Building 2212

| Description | Value | Units |
|-----------------------------|--------|--------|
| Electrical Energy | 51,531 | kWh/yr |
| Electrical Demand Reduction | 0.0 | kW |
| Labor Savings | 16 | mh/yr |

FT. MEADE, MARYLAND

Building: 2220

Square feet 11,520

| Exterior Wall | |
|-----------------|-------------|
| Components | R-Value |
| Outside Surface | 0.17 |
| Concrete Block | 1.72 |
| Inside Surface | 0.68 |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| Total R-Value | 2.57 |
| Total U-Value | 0.39 |

| Exterior Roof | |
|------------------------|--------------|
| Components | R-Value |
| Outside Surface | 0.17 |
| Built-up Roof | 0.44 |
| Wood Deck | 0.93 |
| 3 1/2" Batt Insulation | 11.00 |
| Air Space | 1.10 |
| Gyp Board | 0.56 |
| Inside Surface | 0.61 |
| | |
| | |
| Total R-Value | 14.81 |
| Total U-Value | 0.07 |

| Calculated Total Area | |
|------------------------------|-------|
| No. of Floors | 1 |
| Avg. Floor to Floor Height | 16 |
| No. of Basement Levels | |
| Gross Floor Area | 11520 |
| Roof Area | 14400 |
| Estimated Infiltration (cfm) | 2300 |
| Gross Wall Area | 7520 |
| Door Area | 300 |
| Gross Window Area | 1500 |
| Other | |
| Net Wall Area | 5720 |

| Window and Door | |
|-----------------------------|---------|
| | U-Value |
| Window Single Pane W/Storm | |
| Window Single Pane Wo/Storm | 1.00 |
| Window Double Pane | |
| Skylight | |
| Glass Block | |
| Other | |
| Door Type 1 | 1.00 |
| Door Type 2 | |
| Door Type 3 | |

$U_oA_o = (5720 \cdot 0.39) + (14400 \cdot 0.07) + (300 \cdot 1.0) + (1500 \cdot 1.0) = 5038.8$

**FT. MEADE, MARYLAND
EQUIPMENT SCHEDULE**

BUILDING NO. 2220

| EQUIPMENT | SYSTEM NUMBER | | | | | | | |
|------------------------------|-----------------------------|--------|-------|----------------------------------|---|---|---|-----------------------------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| Equipment Name | Unit Htrs | A/C-1 | HV-1 | Boiler | | | | |
| COOLING: | | | | | | | | |
| Type of Cooling | 1 | | | | | | | |
| Air Side | | | | | | | | |
| Location in Building | Shop | Office | Shop | | | | | |
| Area Sq. Feet | 5220 | 2300 | 4000 | | | | | |
| Supply CFM | | 1200 | 2000 | | | | | |
| Supply Fan HP | 1 | 1 | 1 1/2 | | | | | |
| O.A. CFM or % | | 10% | 20% | | | | | |
| Return CFM | | | | | | | | |
| Return Fan HP | | | | | | | | |
| Chiller Tonnage | | | | | | | | |
| Tower or Condenser Fan HP | | | | | | | | |
| Condenser Pump HP | | | | | | | | |
| Chilled Water Pump HP | | | | | | | | |
| HEATING: | | | | | | | | |
| Type of Heating | 2 | | | 2 | | | | |
| Source | 2 | | | 1 | | | | |
| MBTUH | | | | 1960/1155 | | | | |
| Hot Water Pump HP | | | | | | | | |
| Condensate Pump HP | | | | 1/3 | | | | |
| ADDITIONAL: | | | | | | | | |
| Aux. HP Cooling | | | | | | | | |
| Aux. HP Heating | | | | | | | | |
| Operating Schedule Hrs./Week | | | | | | | | |
| Type of Cooling | | | | | | | | |
| (1) Air Cooled DX | (4) Water Cooled Chiller | | | (1) Boiler Hot Water | | | | (4) Furnace |
| (2) Water Cooled DX | (5) Central Plant Supplied | | | (2) Boiler Steam | | | | (5) Electric |
| (3) Air Cooled Chiller | (6) Other | | | (3) Steam to Hot Water Converter | | | | (6) Heating and Ventilating |
| Air Side | | | | | | | | |
| (1) Single Zone | (4) VAV w/ Reheat | | | (1) Natural Gas | | | | (4) Oil |
| (2) Multi-Zone | (5) Constant Volume Reheat | | | (2) Central Plant Steam | | | | (5) Electric |
| (3) VAV | (6) Heating and Ventilating | | | (3) Central Plant Hot Water | | | | (6) Heating and Ventilating |
| Type of Heating | | | | | | | | |
| Heating Source | | | | | | | | |

EMCS Annual Energy Savings Summary Report

```

=====
Base: FTMEADE
Building: 2220
Case: 1
Description: REPAIR SHOP AND OFFICE
-----
Fuel Type: Fuel oil, distillate #2
Heating Value: 138,700 Btu/gal
=====
    
```

Caution

```

=====
The ESA program makes no attempt to exclude incompatible strategies.
It is the user's responsibility to select all appropriate strategies.
=====
    
```

Annual Energy Savings Table for Single Zone DX-A/C

```

=====
Description: OFFICE A/C UNIT
=====
Strategy                MBtu/yr      kWh/yr      kW  mh/yr
=====
Scheduled Start/Stop    0.000        1,032        0.0   0
Run Time Recording      0.000         0            0.0   2
Safety Alarm            0.000         0            0.0   2
=====
Totals                  0.000        1,032        0.0   4
                        MBtu/yr      kWh/yr      kW  mh/yr
=====
    
```


Annual Energy Savings Table for Heating/Ventilating Unit

| Description: SHOP WORK OFFICES HV UNIT | | | | |
|----------------------------------------|-----------------|-------------|-----------|------------|
| Strategy | MBtu/yr | kWh/yr | kW | mh/yr |
| Day/Night Setback | 78.049 | 0 | 0.0 | 0 |
| Vent/Recirculation | 7.961 | 0 | 0.0 | 0 |
| Run Time Recording | 0.000 | 0 | 0.0 | 2 |
| Safety Alarm | 0.000 | 0 | 0.0 | 2 |
| Subtotals | 86.010 | 0 | 0.0 | 4 |
| Heating Value / | 138,700 Btu/gal | | | |
| Totals | 620 gal/yr | 0 kWh/yr | 0.0 kW | 4 mh/yr |

Annual Energy Savings Table for Steam Unit Heater

| Description: SHOP STEAM UNIT HEATERS | | | | |
|--------------------------------------|-----------------|-------------|-----------|------------|
| Strategy | MBtu/yr | kWh/yr | kW | mh/yr |
| Day/Night Setback | 203.708 | 0 | 0.0 | 0 |
| Subtotals | 203.708 | 0 | 0.0 | 0 |
| Heating Value / | 138,700 Btu/gal | | | |
| Totals | 1,469 gal/yr | 0 kWh/yr | 0.0 kW | 0 mh/yr |

Annual Energy Savings Table for Lighting Control

| Description: BLDG LIGHTING | | | | |
|----------------------------|------------------|------------------|-----------|------------|
| Strategy | MBtu/yr | kWh/yr | kW | mh/yr |
| Lighting Control | 0.000 | 57,408 | 0.0 | 0 |
| Run Time Recording | 0.000 | 0 | 0.0 | 2 |
| Safety Alarm | 0.000 | 0 | 0.0 | 2 |
| Totals | 0.000 MBtu/yr | 57,408 kWh/yr | 0.0 kW | 4 mh/yr |

EMCS Annual Energy Savings for Building 2220

| Description | Value | Units |
|-----------------------------|--------|--------|
| Fuel oil, distillate #2 | 2,089 | gal/yr |
| Electrical Energy | 58,440 | kWh/yr |
| Electrical Demand Reduction | 0.0 | kW |
| Labor Savings | 12 | mh/yr |

FT. MEADE, MARYLAND

Building: 2234

Square feet 25,162

| Exterior Wall | |
|-----------------|-------------|
| Components | R-Value |
| Outside Surface | 0.17 |
| Brick | 0.44 |
| Concrete Block | 1.72 |
| Air Space | 1.10 |
| Plaster | 0.56 |
| Inside Surface | 0.68 |
| | |
| | |
| Total R-Value | 4.67 |
| Total U-Value | 0.21 |

| Exterior Roof | |
|-------------------|--------------|
| Components | R-Value |
| Outside Surface | 0.17 |
| Shingles | 0.33 |
| Wood Deck | 0.93 |
| 3 1/2" Insulation | 11.00 |
| Air Space | 1.10 |
| Plaster | 0.56 |
| Inside Surface | 0.61 |
| | |
| | |
| Total R-Value | 14.70 |
| Total U-Value | 0.07 |

| Calculated Total Area | |
|------------------------------|-------|
| No. of Floors | 2 |
| Avg. Floor to Floor Height | 14 |
| No. of Basement Levels | 1 |
| Gross Floor Area | 25162 |
| Roof Area | 8400 |
| Estimated Infiltration (cfm) | 3350 |
| Gross Wall Area | 14824 |
| Door Area | 252 |
| Gross Window Area | 1416 |
| Other | |
| Net Wall Area | 13156 |

| Window and Door | |
|-----------------------------|---------|
| | U-Value |
| Window Single Pane W/Storm | |
| Window Single Pane Wo/Storm | 0.60 |
| Window Double Pane | |
| Skylight | |
| Glass Block | |
| Other | |
| Door Type 1 | 0.50 |
| Door Type 2 | |
| Door Type 3 | |

$$U_oA_o = (10822 \times 0.21) + (8400 \times 0.07) + (210 \times 0.5) + (1176 \times 0.6) = 3671.2$$



**FT. MEADE, MARYLAND
EQUIPMENT SCHEDULE**

BUILDING NO. 2234

Page 1 of 1

| EQUIPMENT | SYSTEM NUMBER | | | | | | | |
|------------------------------|----------------------------------|---------|---------|-----------|---|---|---|---|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| Equipment Name | Boiler | Boiler | Chiller | Fan Coils | | | | |
| COOLING: | | | 3 | | | | | |
| Type of Cooling | | | | | | | | |
| Air Side | | Standby | | | | | | |
| Location in Building | | | | | | | | |
| Area Sq. Feet | | | | | | | | |
| Supply CFM | | | | | | | | |
| Supply Fan HP | | | | 30 | | | | |
| O.A. CFM or % | | | | | | | | |
| Return CFM | | | | | | | | |
| Return Fan HP | | | | | | | | |
| Chiller Tonnage | | | 95 | | | | | |
| Tower or Condenser Fan HP | | | | | | | | |
| Condenser Pump HP | | | | | | | | |
| Chilled Water Pump HP | | | 7 1/2 | | | | | |
| HEATING: | | | | | | | | |
| Type of Heating | 1 | 1 | | | | | | |
| Source | 1 | 1 | | | | | | |
| MBTUH | 2049 | 650 | | | | | | |
| Hot Water Pump HP | (3) @ 3/4 | | | | | | | |
| Condensate Pump HP | | | | | | | | |
| ADDITIONAL: | | | | | | | | |
| Aux. HP Cooling | | | | | | | | |
| Aux. HP Heating | | | | | | | | |
| Operating Schedule Hrs./Week | | | | | | | | |
| Type of Cooling | Type of Heating | | | | | | | |
| (1) Air Cooled DX | (1) Boiler Hot Water | | | | | | | |
| (2) Water Cooled DX | (2) Boiler Steam | | | | | | | |
| (3) Air Cooled Chiller | (3) Steam to Hot Water Converter | | | | | | | |
| Air Side | Heating Source | | | | | | | |
| (1) Single Zone | (1) Natural Gas | | | | | | | |
| (2) Multi-Zone | (2) Central Plant Steam | | | | | | | |
| (3) VAV | (3) Central Plant Hot Water | | | | | | | |
| | (4) Furnace | | | | | | | |
| | (4) Oil | | | | | | | |
| | (5) Electric | | | | | | | |

EMCS Annual Energy Savings Summary Report

```

=====
Base: FTMEADE
Building: 2234
Case: 1
Description:
=====

```

```

-----
Fuel Type: Natural gas (methane)
Heating Value: 1,031 Btu/cf
=====

```

Caution

```

=====
The ESA program makes no attempt to exclude incompatible strategies.
It is the user's responsibility to select all appropriate strategies.
=====

```

Annual Energy Savings Table for Two Pipe Fan Coil Unit

```

=====
Description: FAN COILS
=====

```

| Strategy | MBtu/yr | kWh/yr | kW | mh/yr |
|--------------------|-------------------|-----------------|-----------|------------|
| Day/Night Setback | 174.241 | 1,052 | 0.0 | 0 |
| Run Time Recording | 0.000 | 0 | 0.0 | 2 |
| Safety Alarm | 0.000 | 0 | 0.0 | 2 |
| Subtotals | 174.241 | 1,052 | 0.0 | 4 |
| Heating Value / | 1,031 Btu/cf | | | |
| Totals | 169,002 cf /yr | 1,052 kWh/yr | 0.0 kW | 4 mh/yr |

Annual Energy Savings Table for Hot Water Boiler

```

=====
Description: B-1
=====
Strategy                MBtu/yr      kWh/yr      kW   mh/yr
=====
Hot Water OA Reset      163.920      0            0.0   0
Run Time Recording      0.000        0            0.0   2
Safety Alarm            0.000        0            0.0   2
-----
Subtotals                163.920      0            0.0   4
Heating Value /         1,031 Btu/cf
=====
Totals                  158,991      0            0.0   4
                        cf /yr      kWh/yr      kW   mh/yr
=====
    
```

Annual Energy Savings Table for Air Cooled Chiller

```

=====
Description: C-1
=====
Strategy                MBtu/yr      kWh/yr      kW   mh/yr
=====
Scheduled Start/Stop    0.000        3,925       0.0   0
Chiller Water Reset     0.000        5,157       0.0   0
Run Time Recording      0.000        0            0.0   2
Safety Alarm            0.000        0            0.0   2
-----
Totals                  0.000        9,082       0.0   4
                        MBtu/yr      kWh/yr      kW   mh/yr
=====
    
```

Annual Energy Savings Table for Lighting Control

```

=====
Description: Lighting
=====
Strategy                MBtu/yr      kWh/yr      kW   mh/yr
=====
Lighting Control        0.000        124,800     0.0   0
-----
Totals                  0.000        124,800     0.0   0
                        MBtu/yr      kWh/yr      kW   mh/yr
=====
    
```

EMCS Annual Energy Savings for Building 2234

| Description | Value | Units |
|-----------------------------|---------|--------|
| Natural gas (methane) | 327,993 | cf /yr |
| Electrical Energy | 134,933 | kWh/yr |
| Electrical Demand Reduction | 0.0 | kW |
| Labor Savings | 12 | mh/yr |

FT. MEADE, MARYLAND

Building: 2253

Square feet 18,912

| Exterior Wall | |
|-----------------|--------------|
| Components | R-Value |
| Outside Surface | 0.17 |
| Vinyl Siding | 0.61 |
| 2" Insulation | 9.00 |
| Air Space | 1.10 |
| Gyp Board | 0.56 |
| Inside Surface | 0.68 |
| | |
| | |
| Total R-Value | 12.12 |
| Total U-Value | 0.08 |

| Exterior Roof | |
|------------------------|--------------|
| Components | R-Value |
| Outside Surface | 0.17 |
| Shingles | 0.44 |
| Wood deck | 0.93 |
| 3 1/2" Batt Insulation | 12.00 |
| Inside Surface | 0.61 |
| | |
| | |
| Total R-Value | 14.15 |
| Total U-Value | 0.07 |

| Calculated Total Area | |
|------------------------------|-------|
| No. of Floors | 1 |
| Avg. Floor to Floor Height | 15 |
| No. of Basement Levels | |
| Gross Floor Area | 18912 |
| Roof Area | 18912 |
| Estimated Infiltration (cfm) | 4700 |
| Gross Wall Area | 10650 |
| Door Area | 500 |
| Gross Window Area | 600 |
| Other | |
| Net Wall Area | 9550 |

| Window and Door | |
|-----------------------------|---------|
| | U-Value |
| Window Single Pane W/Storm | |
| Window Single Pane Wo/Storm | 1.00 |
| Window Double Pane | |
| Skylight | |
| Glass Block | |
| Other | |
| Door Type 1 | 1.00 |
| Door Type 2 | |
| Door Type 3 | |

$$AoUo = (9550 \times 0.08) + (18912 \times 0.07) + (500 \times 1.0) + (600 \times 1.0) = 3187$$

**FT. MEADE, MARYLAND
EQUIPMENT SCHEDULE**

BUILDING NO. 2253

Page 1 of 1

| EQUIPMENT | SYSTEM NUMBER | | | | | | | |
|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|---|---|---|---|---|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| Equipment Name | Furnace | | | | | | | |
| COOLING: | | | | | | | | |
| Type of Cooling | | | | | | | | |
| Air Side | | | | | | | | |
| Location in Building | | | | | | | | |
| Area Sq. Feet | | | | | | | | |
| Supply CFM | 18200 | | | | | | | |
| Supply Fan HP | 5 | | | | | | | |
| O.A. CFM or % | 0% | | | | | | | |
| Return CFM | | | | | | | | |
| Return Fan HP | | | | | | | | |
| Chiller Tonnage | | | | | | | | |
| Tower or Condenser Fan HP | | | | | | | | |
| Condenser Pump HP | | | | | | | | |
| Chilled Water Pump HP | | | | | | | | |
| HEATING: | | | | | | | | |
| Type of Heating | 4 | | | | | | | |
| Source | 1 | | | | | | | |
| MBTUH | 1250/1000 | | | | | | | |
| Hot Water Pump HP | | | | | | | | |
| Condensate Pump HP | | | | | | | | |
| ADDITIONAL: | | | | | | | | |
| Aux. HP Cooling | | | | | | | | |
| Aux. HP Heating | | | | | | | | |
| Operating Schedule Hrs./Week | | | | | | | | |
| Type of Cooling | (4) Water Cooled Chiller (5) Central Plant Supplied (6) Other | | | | | | | |
| Type of Heating | (1) Boiler Hot Water (2) Boiler Steam (3) Steam to Hot Water Converter (1) Natural Gas (2) Central Plant Steam (3) Central Plant Hot Water | | | | | | | |
| Air Side | (4) VAV w/ Reheat (5) Constant Volume Reheat (6) Heating and Ventilating | | | | | | | |
| (1) Single Zone | | | | | | | | |
| (2) Multi-Zone | | | | | | | | |
| (3) VAV | | | | | | | | |

EMCS Annual Energy Savings Summary Report

```

=====
Base: FTMEADE
Building: 2253
Case: 1
Description: VEHICLE MAINTENANCE SHOP
=====

```

```

=====
Fuel Type: Natural gas (methane)
Heating Value: 1,031 Btu/cf
=====

```

Caution

```

=====
The ESA program makes no attempt to exclude incompatible strategies.
It is the user's responsibility to select all appropriate strategies.
=====

```

Annual Energy Savings Table for Direct Fired Furnace

```

=====
Description: GAS FURNACE
=====

```

| Strategy | MBtu/yr | kWh/yr | kW | mh/yr |
|--------------------|-------------------|-------------|-----------|------------|
| Day/Night Setback | 185.241 | 0 | 0.0 | 0 |
| Run Time Recording | 0.000 | 0 | 0.0 | 2 |
| Safety Alarm | 0.000 | 0 | 0.0 | 2 |
| ----- | | | | |
| Subtotals | 185.241 | 0 | 0.0 | 4 |
| Heating Value / | 1,031 Btu/cf | | | |
| ----- | | | | |
| Totals | 179,671 cf /yr | 0 kWh/yr | 0.0 kW | 4 mh/yr |

Annual Energy Savings Table for Lighting Control

```

=====
Description: LIGHTING
=====

```

| Strategy | MBtu/yr | kWh/yr | kW | mh/yr |
|------------------|------------------|------------------|-----------|------------|
| Lighting Control | 0.000 | 34,944 | 0.0 | 0 |
| ----- | | | | |
| Totals | 0.000 MBtu/yr | 34,944 kWh/yr | 0.0 kW | 0 mh/yr |

EMCS Annual Energy Savings for Building 2253

| Description | Value | Units |
|-----------------------------|---------|--------|
| Natural gas (methane) | 179,671 | cf /yr |
| Electrical Energy | 34,944 | kWh/yr |
| Electrical Demand Reduction | 0.0 | kW |
| Labor Savings | 4 | mh/yr |

FT. MEADE, MARYLAND

Building: 2257

Square feet 51,712

| Exterior Wall | |
|-----------------|---------|
| Components | R-Value |
| Outside Surface | 0.17 |
| Brick | 0.44 |
| Concrete Block | 1.72 |
| Air Space | 1.10 |
| Plaster | 0.56 |
| Inside Surface | 0.68 |
| | |
| Total R-Value | 4.67 |
| Total U-Value | 0.21 |

| Exterior Roof | |
|---------------------|---------|
| Components | R-Value |
| Outside Surface | 0.17 |
| Shingles | 0.44 |
| Wood Deck | 0.93 |
| Air Space | 1.10 |
| Insulation 1" Rigid | 6.00 |
| Plaster | 0.56 |
| Inside Surface | 0.68 |
| | |
| Total R-Value | 9.88 |
| Total U-Value | 0.10 |

| Calculated Total Area | |
|------------------------------|-------|
| No. of Floors | 3 |
| Avg. Floor to Floor Height | 12 |
| No. of Basement Levels | 1 |
| Gross Floor Area | 51712 |
| Roof Area | 13000 |
| Estimated Infiltration (cfm) | 4655 |
| Gross Wall Area | 27770 |
| Door Area | 380 |
| Gross Window Area | 3400 |
| Other | |
| Net Wall Area | 23990 |

| Window and Door | |
|-----------------------------|---------|
| | U-Value |
| Window Single Pane W/Storm | 0.60 |
| Window Single Pane Wo/Storm | |
| Window Double Pane | |
| Skylight | |
| Glass Block | |
| Other | |
| Door Type 1 | 0.50 |
| Door Type 2 | |
| Door Type 3 | |

$$U_oA_o = (23990 \times 0.21) + (13000 \times 0.1) + (380 \times 0.5) + (3400 \times 0.6) = 8567.9$$

**FT. MEADE, MARYLAND
EQUIPMENT SCHEDULE**

BUILDING NO. 2257

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| EQUIPMENT | SYSTEM NUMBER | | | | | | | |
|------------------------------|----------------------------------|-----------------|--------------|--------------|----------------|------------------|---|---|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| Equipment Name | Boiler#1 | Boiler#2 | AHU-1 | AHU-2 | Chiller | Fan Coils | | |
| COOLING: | | | | | | | | |
| Type of Cooling | 1 | | 3 | 1 | 3 | | | |
| Air Side | | | 1 | 1 | | | | |
| Location in Building | | | Bsmt | Court Rm | | | | |
| Area Sq. Feet | | | 38790 | 2700 | | | | |
| Supply CFM | | | 15000 | 3000 | | 42 | | |
| Supply Fan HP | | | 10 | 1 | | | | |
| O.A. CFM or % | | | 100% | 20% | | | | |
| Return CFM | | | | | | | | |
| Return Fan HP | | | | | | | | |
| Chiller Tonnage | | | | 1.5 | 80 | | | |
| Tower or Condenser Fan HP | | | | | | | | |
| Condenser Pump HP | | | | | | | | |
| Chilled Water Pump HP | | | | | 7.5 | | | |
| HEATING: | | | | | | | | |
| Type of Heating | 1 | 1 | | | | | | |
| Source | 1 | 1 | | | | | | |
| MBTUH | 1750 | 1750 | | | | | | |
| Hot Water Pump HP | 7.5 | | | | | | | |
| Condensate Pump HP | | | | | | | | |
| ADDITIONAL: | | | | | | | | |
| Aux. HP Cooling | | | | | | | | |
| Aux. HP Heating | | | | | | | | |
| Operating Schedule Hrs./Week | | | | | | | | |
| Type of Cooling | Type of Heating | | | | | | | |
| (1) Air Cooled DX | (1) Boiler Hot Water | | | | | | | |
| (2) Water Cooled DX | (2) Boiler Steam | | | | | | | |
| (3) Air Cooled Chiller | (3) Steam to Hot Water Converter | | | | | | | |
| (4) Water Cooled Chiller | (4) Furnace | | | | | | | |
| (5) Central Plant Supplied | | | | | | | | |
| (6) Other | | | | | | | | |
| Air Side | Heating Source | | | | | | | |
| (1) Single Zone | (1) Natural Gas | | | | | | | |
| (2) Multi-Zone | (2) Central Plant Steam | | | | | | | |
| (3) VAV | (3) Central Plant Hot Water | | | | | | | |
| (4) VAV w/ Reheat | (4) Oil | | | | | | | |
| (5) Constant Volume Reheat | (5) Electric | | | | | | | |
| (6) Heating and Ventilating | | | | | | | | |

EMCS Annual Energy Savings Summary Report

```

=====
Base: FTMEADE
Building: 2257
Case: 1
Description: ADMINISTRATIVE
-----
Fuel Type: Natural gas (methane)
Heating Value: 1,031 Btu/cf
=====
    
```

Caution

```

=====
The ESA program makes no attempt to exclude incompatible strategies.
It is the user's responsibility to select all appropriate strategies.
=====
    
```

Annual Energy Savings Table for Single Zone AHU

```

=====
Description: AHU-1 100% OUTDOOR AIR UNIT
=====
Strategy                MBtu/yr      kWh/yr      kW   mh/yr
=====
Scheduled Start/Stop    978.820     22,029      0.0   0
Run Time Recording      0.000        0           0.0   2
Safety Alarm            0.000        0           0.0   2
-----
Subtotals                978.820     22,029      0.0   4
Heating Value /         1,031 Btu/cf
=====
Totals                  949,389     22,029      0.0   4
                        cf /yr      kWh/yr      kW   mh/yr
=====
    
```

Annual Energy Savings Table for Single Zone DX-A/C

| Description: AHU-2 BSMNT COURT ROOM | | | | |
|-------------------------------------|--------------|--------|-----|-------|
| Strategy | MBtu/yr | kWh/yr | kW | mh/yr |
| Scheduled Start/Stop | 68.826 | 2,365 | 0.0 | 0 |
| Vent/Recirculation | 7.777 | 0 | 0.0 | 0 |
| Run Time Recording | 0.000 | 0 | 0.0 | 2 |
| Safety Alarm | 0.000 | 0 | 0.0 | 2 |
| Subtotals | 76.603 | 2,365 | 0.0 | 4 |
| Heating Value / | 1,031 Btu/cf | | | |
| Totals | 74,300 | 2,365 | 0.0 | 4 |
| | cf /yr | kWh/yr | kW | mh/yr |

Annual Energy Savings Table for Two Pipe Fan Coil Unit

| Description: FAN COILS | | | | |
|------------------------|--------------|--------|-----|-------|
| Strategy | MBtu/yr | kWh/yr | kW | mh/yr |
| Day/Night Setback | 307.939 | 1,858 | 0.0 | 0 |
| Run Time Recording | 0.000 | 0 | 0.0 | 2 |
| Safety Alarm | 0.000 | 0 | 0.0 | 2 |
| Subtotals | 307.939 | 1,858 | 0.0 | 4 |
| Heating Value / | 1,031 Btu/cf | | | |
| Totals | 298,680 | 1,858 | 0.0 | 4 |
| | cf /yr | kWh/yr | kW | mh/yr |

Annual Energy Savings Table for Hot Water Boiler

| Description: BOILER | | | | |
|---------------------|-------------------|-------------|-----------|------------|
| Strategy | MBtu/yr | kWh/yr | kW | mh/yr |
| Hot Water OA Reset | 140.000 | 0 | 0.0 | 0 |
| Run Time Recording | 0.000 | 0 | 0.0 | 2 |
| Safety Alarm | 0.000 | 0 | 0.0 | 2 |
| Subtotals | 140.000 | 0 | 0.0 | 4 |
| Heating Value / | 1,031 Btu/cf | | | |
| Totals | 135,790 cf /yr | 0 kWh/yr | 0.0 kW | 4 mh/yr |

Annual Energy Savings Table for Air Cooled Chiller

| Description: AIR COOLED CHILLER | | | | |
|---------------------------------|------------------|-----------------|-----------|------------|
| Strategy | MBtu/yr | kWh/yr | kW | mh/yr |
| Scheduled Start/Stop | 0.000 | 1,472 | 0.0 | 0 |
| Chiller Water Reset | 0.000 | 4,343 | 0.0 | 0 |
| Run Time Recording | 0.000 | 0 | 0.0 | 2 |
| Safety Alarm | 0.000 | 0 | 0.0 | 2 |
| Totals | 0.000 MBtu/yr | 5,815 kWh/yr | 0.0 kW | 4 mh/yr |

Annual Energy Savings Table for Lighting Control

| Description: LIGHTING | | | | |
|-----------------------|------------------|-------------------|-----------|------------|
| Strategy | MBtu/yr | kWh/yr | kW | mh/yr |
| Lighting Control | 0.000 | 124,800 | 0.0 | 0 |
| Totals | 0.000 MBtu/yr | 124,800 kWh/yr | 0.0 kW | 0 mh/yr |

EMCS Annual Energy Savings for Building 2257

| Description | Value | Units |
|-----------------------------|-----------|--------|
| Natural gas (methane) | 1,458,158 | cf /yr |
| Electrical Energy | 156,867 | kWh/yr |
| Electrical Demand Reduction | 0.0 | kW |
| Labor Savings | 20 | mh/yr |

FT. MEADE, MARYLAND

Building: 2282

Square feet 22,796

| Exterior Wall | |
|-----------------|-------------|
| Components | R-Value |
| Outside Surface | 0.17 |
| Concrete Block | 1.72 |
| Inside Surface | 0.68 |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| Total R-Value | 2.57 |
| Total U-Value | 0.39 |

| Exterior Roof | |
|---------------------|--------------|
| Components | R-Value |
| Outside Surface | 0.17 |
| Built-up Roof | 0.33 |
| 1 1/2" Insulation | 6.00 |
| Metal Deck | 0.00 |
| Air Space | 1.10 |
| Acoustical Tile Clg | 1.89 |
| Inside Surface | 0.61 |
| | |
| Total R-Value | 10.10 |
| Total U-Value | 0.10 |

| Calculated Total Area | |
|------------------------------|-------|
| No. of Floors | 1 |
| Avg. Floor to Floor Height | 12 |
| No. of Basement Levels | 1 |
| Gross Floor Area | 22796 |
| Roof Area | 15970 |
| Estimated Infiltration (cfm) | 1500 |
| Gross Wall Area | 11064 |
| Door Area | 374 |
| Gross Window Area | 377 |
| Other | |
| Net Wall Area | 10313 |

| Window and Door | |
|-----------------------------|---------|
| | U-Value |
| Window Single Pane W/Storm | 0.60 |
| Window Single Pane Wo/Storm | |
| Window Double Pane | |
| Skylight | |
| Glass Block | |
| Other | |
| Door Type 1 | 1.00 |
| Door Type 2 | |
| Door Type 3 | |

$$UoAo = (10313 \times 0.39) + (15970 \times 0.1) + (374 \times 1.0) + (377 \times 0.6) = 6219.3$$

**FT. MEADE, MARYLAND
EQUIPMENT SCHEDULE**

BUILDING NO. 2282

Page 1 of 1

| EQUIPMENT | SYSTEM NUMBER | | | | | | | | |
|------------------------------|-----------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | |
| Equipment Name | Fan Coils | Boiler | Chiller | Chiller | | | | | |
| COOLING: | | | | | | | | | |
| Type of Cooling | | | 3 | 3 | | | | | |
| Air Side | | | | | | | | | |
| Location in Building | | | | | | | | | |
| Area Sq. Feet | | | | | | | | | |
| Supply CFM | | | | | | | | | |
| Supply Fan HP | 7 1/2 | | | | | | | | |
| O.A. CFM or % | | | | | | | | | |
| Return CFM | | | | | | | | | |
| Return Fan HP | | | | | | | | | |
| Chiller Tonnage | | | 21 | 21 | | | | | |
| Tower or Condenser Fan HP | | | | | | | | | |
| Condenser Pump HP | | | | | | | | | |
| Chilled Water Pump HP | | | | | | | | | |
| HEATING: | | | | | | | | | |
| Type of Heating | | 1 | | | | | | | |
| Source | | 1 | | | | | | | |
| MBTUH | | 100 | | | | | | | |
| Dual Temp. Water Pump HP | | (2) @ 1 | | | | | | | |
| Condensate Pump HP | | | | | | | | | |
| ADDITIONAL: | | | | | | | | | |
| AUX. HP Cooling | | | | | | | | | |
| AUX. HP Heating | | | | | | | | | |
| Operating Schedule Hrs./Week | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| Type of Cooling | | Type of Heating | | Type of Heating | | Type of Heating | | Type of Heating | |
| (1) Air Cooled DX | (4) Water Cooled Chiller | (1) Natural Gas | (1) Natural Gas | (1) Natural Gas | (1) Natural Gas | (1) Natural Gas | (1) Natural Gas | (1) Natural Gas | (1) Natural Gas |
| (2) Water Cooled DX | (5) Central Plant Supplied | (2) Central Plant Steam | (2) Central Plant Steam | (2) Central Plant Steam | (2) Central Plant Steam | (2) Central Plant Steam | (2) Central Plant Steam | (2) Central Plant Steam | (2) Central Plant Steam |
| (3) Air Cooled Chiller | (6) Other | (3) Steam to Hot Water Converter | (3) Steam to Hot Water Converter | (3) Steam to Hot Water Converter | (3) Steam to Hot Water Converter | (3) Steam to Hot Water Converter | (3) Steam to Hot Water Converter | (3) Steam to Hot Water Converter | (3) Steam to Hot Water Converter |
| Air Side | | Heating Source | | Heating Source | | Heating Source | | Heating Source | |
| (1) Single Zone | (4) VAV w/ Reheat | (1) Natural Gas | (1) Natural Gas | (1) Natural Gas | (1) Natural Gas | (1) Natural Gas | (1) Natural Gas | (1) Natural Gas | (1) Natural Gas |
| (2) Multi-Zone | (5) Constant Volume Reheat | (2) Central Plant Steam | (2) Central Plant Steam | (2) Central Plant Steam | (2) Central Plant Steam | (2) Central Plant Steam | (2) Central Plant Steam | (2) Central Plant Steam | (2) Central Plant Steam |
| (3) VAV | (6) Heating and Ventilating | (3) Central Plant Hot Water | (3) Central Plant Hot Water | (3) Central Plant Hot Water | (3) Central Plant Hot Water | (3) Central Plant Hot Water | (3) Central Plant Hot Water | (3) Central Plant Hot Water | (3) Central Plant Hot Water |

EMCS Annual Energy Savings Summary Report

```

=====
Base: FTMEADE
Building: 2282
Case: 1
Description:
-----
Fuel Type: Natural gas (methane)
Heating Value: 1,031 Btu/cf
=====
    
```

Caution

```

=====
The ESA program makes no attempt to exclude incompatible strategies.
It is the user's responsibility to select all appropriate strategies.
=====
    
```

Annual Energy Savings Table for Four Pipe Fan Coil Unit

```

=====
Description: Fan Coil Units
=====
Strategy                MBtu/yr      kWh/yr      kW   mh/yr
=====
Day/Night Setback       143.146      921         0.0   0
Run Time Recording       0.000        0           0.0   2
Safety Alarm             0.000        0           0.0   2
-----
Subtotals                143.146      921         0.0   4
Heating Value /         1,031 Btu/cf
=====
Totals                  138,842      921         0.0   4
                        cf /yr      kWh/yr      kW   mh/yr
=====
    
```

Annual Energy Savings Table for Hot Water Boiler

| Description: B-1 | | | | |
|--------------------|------------------|-------------|-----------|------------|
| Strategy | MBtu/yr | kWh/yr | kW | mh/yr |
| Hot Water OA Reset | 15.000 | 0 | 0.0 | 0 |
| Run Time Recording | 0.000 | 0 | 0.0 | 2 |
| Safety Alarm | 0.000 | 0 | 0.0 | 2 |
| Subtotals | 15.000 | 0 | 0.0 | 4 |
| Heating Value / | 1,031 Btu/cf | | | |
| Totals | 14,549 cf /yr | 0 kWh/yr | 0.0 kW | 4 mh/yr |

Annual Energy Savings Table for Air Cooled Chiller

| Description: C-1 | | | | |
|----------------------|------------------|-----------------|-----------|------------|
| Strategy | MBtu/yr | kWh/yr | kW | mh/yr |
| Scheduled Start/Stop | 0.000 | 5,233 | 0.0 | 0 |
| Chiller Water Reset | 0.000 | 2,280 | 0.0 | 0 |
| Run Time Recording | 0.000 | 0 | 0.0 | 2 |
| Safety Alarm | 0.000 | 0 | 0.0 | 2 |
| Totals | 0.000 MBtu/yr | 7,513 kWh/yr | 0.0 kW | 4 mh/yr |

Annual Energy Savings Table for Lighting Control

| Description: LIGHTING | | | | |
|-----------------------|------------------|------------------|-----------|------------|
| Strategy | MBtu/yr | kWh/yr | kW | mh/yr |
| Lighting Control | 0.000 | 47,840 | 0.0 | 0 |
| Totals | 0.000 MBtu/yr | 47,840 kWh/yr | 0.0 kW | 0 mh/yr |

EMCS Annual Energy Savings for Building 2282

| Description | Value | Units |
|-----------------------------|---------|--------|
| Natural gas (methane) | 153,391 | cf /yr |
| Electrical Energy | 56,274 | kWh/yr |
| Electrical Demand Reduction | 0.0 | kW |
| Labor Savings | 12 | mh/yr |

FT. MEADE, MARYLAND

Building: 2481

Square feet 17,436

| Exterior Wall | |
|-----------------|---------|
| Components | R-Value |
| Outside Surface | 0.17 |
| Brick | 0.44 |
| Air Space | 1.10 |
| Concrete Block | 1.72 |
| Inside Surface | 0.68 |
| | |
| | |
| | |
| Total R-Value | 4.11 |
| Total U-Value | 0.24 |

| Exterior Roof | |
|-------------------|---------|
| Components | R-Value |
| Outside Surface | 0.17 |
| Built-up Roof | 0.33 |
| 1 1/2" Insulation | 9.00 |
| Concrete Deck | 0.50 |
| Plaster | 0.56 |
| Inside Surface | 0.61 |
| | |
| | |
| Total R-Value | 11.17 |
| Total U-Value | 0.09 |

| Calculated Total Area | |
|------------------------------|-------|
| No. of Floors | 2 |
| Avg. Floor to Floor Height | 12 |
| No. of Basement Levels | 1 |
| Gross Floor Area | 17436 |
| Roof Area | 8822 |
| Estimated Infiltration (cfm) | 1600 |
| Gross Wall Area | 11472 |
| Door Area | 126 |
| Gross Window Area | 776 |
| Other | |
| Net Wall Area | 10570 |

| Window and Door | |
|-----------------------------|---------|
| | U-Value |
| Window Single Pane W/Storm | 0.60 |
| Window Single Pane Wo/Storm | |
| Window Double Pane | |
| Skylight | |
| Glass Block | |
| Other | |
| Door Type 1 | 0.50 |
| Door Type 2 | |
| Door Type 3 | |

$$UoAo = (10570 \times 0.24) + (8822 \times 0.09) + (126 \times 0.5) + (776 \times 0.6) = 3859.4$$

**FT. MEADE, MARYLAND
EQUIPMENT SCHEDULE**

BUILDING NO. 2481

Page 1 of 1

| EQUIPMENT | SYSTEM NUMBER | | | | | | | |
|------------------------------|----------------------------------|-----------|----------|---|---|---|---|---|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| Equipment Name | AHU-1 | Cond Unit | S-W Conv | | | | | |
| COOLING: | | | | | | | | |
| Type of Cooling | 1 | | | | | | | |
| Air Side | 2 | | | | | | | |
| Location in Building | All | | | | | | | |
| Area Sq. Feet | 17436 | | | | | | | |
| Supply CFM | 14535 | | | | | | | |
| Supply Fan HP | 15 | | | | | | | |
| O.A. CFM or % | 2100 | | | | | | | |
| Return CFM | | | | | | | | |
| Return Fan HP | | | | | | | | |
| Chiller Tonnage | | 30 | | | | | | |
| Tower or Condenser Fan HP | | | | | | | | |
| Condenser Pump HP | | | | | | | | |
| Chilled Water Pump HP | | | | | | | | |
| HEATING: | | | | | | | | |
| Type of Heating | | | 3 | | | | | |
| Source | | | 2 | | | | | |
| MBTUH | | | 800 | | | | | |
| Hot Water Pump HP | | | 3 | | | | | |
| Condensate Pump HP | | | | | | | | |
| ADDITIONAL: | | | | | | | | |
| Aux. HP Cooling | | | | | | | | |
| Aux. HP Heating | | | | | | | | |
| Operating Schedule Hrs./Week | | | | | | | | |
| Type of Cooling | Type of Heating | | | | | | | |
| (1) Air Cooled DX | (1) Boiler Hot Water | | | | | | | |
| (2) Water Cooled DX | (2) Boiler Steam | | | | | | | |
| (3) Air Cooled Chiller | (3) Steam to Hot Water Converter | | | | | | | |
| Air Side | Heating Source | | | | | | | |
| (1) Single Zone | (1) Natural Gas | | | | | | | |
| (2) Multi-Zone | (2) Central Plant Steam | | | | | | | |
| (3) VAV | (3) Central Plant Hot Water | | | | | | | |
| | (4) VAV w/ Reheat | | | | | | | |
| | (4) Water Cooled Chiller | | | | | | | |
| | (5) Central Plant Supplied | | | | | | | |
| | (5) Constant Volume Reheat | | | | | | | |
| | (6) Heating and Ventilating | | | | | | | |
| | (6) Other | | | | | | | |

EMCS Annual Energy Savings Summary Report

```

=====
Base: FTMEADE
Building: 2481
Case: 1
Description:
-----
Fuel Type: Fuel oil, distillate #2
Heating Value: 138,690 Btu/gal
=====
    
```

Caution

```

=====
The ESA program makes no attempt to exclude incompatible strategies.
It is the user's responsibility to select all appropriate strategies.
=====
    
```

Annual Energy Savings Table for Multi-zone DX-A/C

```

=====
Description: AHU
=====
Strategy                MBtu/yr      kWh/yr      kW   mh/yr
=====
Hot/Cold Deck Reset      380.573      22,581       0.0   0
Run Time Recording        0.000         0           0.0   2
Safety Alarm              0.000         0           0.0   2
-----
Subtotals                 380.573      22,581       0.0   4
Heating Value /         138,690 Btu/gal
=====
Totals                   2,744        22,581       0.0   4
                        gal/yr      kWh/yr      kW   mh/yr
=====
    
```

Annual Energy Savings Table for Steam/Hot Water Converter

| Description: Heat Exchanger | | | | |
|-----------------------------|-----------------|-------------|-----------|------------|
| Strategy | MBtu/yr | kWh/yr | kW | mh/yr |
| Hot Water OA Reset | 127.385 | 0 | 0.0 | 0 |
| Run Time Recording | 0.000 | 0 | 0.0 | 2 |
| Safety Alarm | 0.000 | 0 | 0.0 | 2 |
| Subtotals | 127.385 | 0 | 0.0 | 4 |
| Heating Value / | 138,690 Btu/gal | | | |
| Totals | 918 gal/yr | 0 kWh/yr | 0.0 kW | 4 mh/yr |

Annual Energy Savings Table for Air Cooled DX Compressor

| Description: DX CONDENSING UNIT | | | | |
|---------------------------------|------------------|------------------|-----------|------------|
| Strategy | MBtu/yr | kWh/yr | kW | mh/yr |
| Duty Cycling | 0.000 | 39,102 | 0.0 | 0 |
| Demand Limiting | 0.000 | 0 | 4.5 | 0 |
| Run Time Recording | 0.000 | 0 | 0.0 | 2 |
| Safety Alarm | 0.000 | 0 | 0.0 | 2 |
| Totals | 0.000 MBtu/yr | 39,102 kWh/yr | 4.5 kW | 4 mh/yr |

EMCS Annual Energy Savings for Building 2481

| Description | Value | Units |
|-----------------------------|--------|--------|
| Fuel oil, distillate #2 | 3,663 | gal/yr |
| Electrical Energy | 61,684 | kWh/yr |
| Electrical Demand Reduction | 4.5 | kW |
| Labor Savings | 12 | mh/yr |

**FT. MEADE, MARYLAND
EQUIPMENT SCHEDULE**

BUILDING NO. 2482

Page 1 of 1

| EQUIPMENT | SYSTEM NUMBER | | | | | | | |
|------------------------------|----------------------------------|---------|---------|---|---|---|---|---|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| Equipment Name | Boiler | Boiler | Boiler | | | | | |
| COOLING: | | | | | | | | |
| Type of Cooling | | | | | | | | |
| Air Side | | | | | | | | |
| Location in Building | | | | | | | | |
| Area Sq. Feet | | | | | | | | |
| Supply CFM | | | | | | | | |
| Supply Fan HP | | | | | | | | |
| O.A. CFM or % | | | | | | | | |
| Return CFM | | | | | | | | |
| Return Fan HP | | | | | | | | |
| Chiller Tonnage | | | | | | | | |
| Tower or Condenser Fan HP | | | | | | | | |
| Condenser Pump HP | | | | | | | | |
| Chilled Water Pump HP | | | | | | | | |
| HEATING: | | | | | | | | |
| Type of Heating | 2 | 2 | 2 | | | | | |
| Source | 4 | 4 | 4 | | | | | |
| MBTUH | 13388.8 | 13388.8 | 13388.8 | | | | | |
| Hot Water Pump HP | | | | | | | | |
| Condensate Pump HP | | | | | | | | |
| ADDITIONAL: | | | | | | | | |
| Aux. HP Cooling | | | | | | | | |
| Aux. HP Heating | | | | | | | | |
| Operating Schedule Hrs./Week | | | | | | | | |
| Type of Cooling | Type of Heating | | | | | | | |
| (1) Air Cooled DX | (1) Boiler Hot Water | | | | | | | |
| (2) Water Cooled DX | (2) Boiler Steam | | | | | | | |
| (3) Air Cooled Chiller | (3) Steam to Hot Water Converter | | | | | | | |
| Air Side | Heating Source | | | | | | | |
| (1) Single Zone | (1) Natural Gas | | | | | | | |
| (2) Multi-Zone | (2) Central Plant Steam | | | | | | | |
| (3) VAV | (3) Central Plant Hot Water | | | | | | | |
| | (4) Furnace | | | | | | | |
| | (4) Oil | | | | | | | |
| | (5) Electric | | | | | | | |

EMCS Annual Energy Savings Summary Report

```

=====
Base: FTMEADE
Building: 2482
Case: 1
Description: STEAM BOILER PLANT
-----

```

```

Fuel Type: Fuel oil, distillate #2
Heating Value: 138,700 Btu/gal
=====

```

Caution

```

=====
The ESA program makes no attempt to exclude incompatible strategies.
It is the user's responsibility to select all appropriate strategies.
=====

```

Annual Energy Savings Table for Steam Boiler

```

=====
Description: HP STEAM BOILERS
=====

```

| Strategy | MBtu/yr | kWh/yr | kW | mh/yr |
|------------------------|-----------------|----------|--------|---------|
| Steam Boiler Selection | 556.150 | 0 | 0.0 | 0 |
| Run Time Recording | 0.000 | 0 | 0.0 | 2 |
| Safety Alarm | 0.000 | 0 | 0.0 | 2 |
| Subtotals | 556.150 | 0 | 0.0 | 4 |
| Heating Value / | 138,700 Btu/gal | | | |
| Totals | 4,010 gal/yr | 0 kWh/yr | 0.0 kW | 4 mh/yr |

EMCS Annual Energy Savings for Building 2482

| Description | Value | Units |
|-----------------------------|-------|--------|
| Fuel oil, distillate #2 | 4,010 | gal/yr |
| Electrical Energy | 0 | kWh/yr |
| Electrical Demand Reduction | 0.0 | kW |
| Labor Savings | 4 | mh/yr |

FT. MEADE, MARYLAND

Building: 2484

Square feet 18,185

| Exterior Wall | |
|-------------------|--------------|
| Components | R-Value |
| Outside Surface | 0.17 |
| Metal Siding | 0.00 |
| 3 1/2" insulation | 11.00 |
| Inside Surface | 0.68 |
| | |
| | |
| | |
| | |
| | |
| | |
| Total R-Value | 11.85 |
| Total U-Value | 0.08 |

| Exterior Roof | |
|-------------------|--------------|
| Components | R-Value |
| Outside Surface | 0.17 |
| Metal Roof | 0.00 |
| 3 1/2" insulation | 11.00 |
| Inside Surface | 0.61 |
| | |
| | |
| | |
| | |
| | |
| | |
| Total R-Value | 11.78 |
| Total U-Value | 0.08 |

| Calculated Total Area | |
|------------------------------|-------|
| No. of Floors | 1 |
| Avg. Floor to Floor Height | 24 |
| No. of Basement Levels | |
| Gross Floor Area | 18185 |
| Roof Area | 18200 |
| Estimated Infiltration (cfm) | 4400 |
| Gross Wall Area | 13360 |
| Door Area | 260 |
| Gross Window Area | 100 |
| Other | |
| Net Wall Area | 13000 |

| Window and Door | |
|-----------------------------|---------|
| | U-Value |
| Window Single Pane W/Storm | |
| Window Single Pane Wo/Storm | |
| Window Double Pane | 0.55 |
| Skylight | |
| Glass Block | |
| Other | |
| Door Type 1 | 1.00 |
| Door Type 2 | |
| Door Type 3 | |

$$UoAo = (13000 \times 0.08) + (18200 \times 0.08) + (260 \times 1.0) + (100 \times 0.55) = 2811$$

**FT. MEADE, MARYLAND
EQUIPMENT SCHEDULE**

BUILDING NO. 2484

Page 1 of 1

| EQUIPMENT | SYSTEM NUMBER | | | | | | | |
|------------------------------|----------------------------------|-------------|-----------|---|---|---|---|---|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| Equipment Name | A/C-1 | A/C-2 | Unit Htrs | | | | | |
| COOLING: | | | | | | | | |
| Type of Cooling | 1 | 1 | | | | | | |
| Air Side | 1 | 1 | | | | | | |
| Location in Building | 1st Flr Office | Mezz Office | Warehouse | | | | | |
| Area Sq. Feet | 2100 | 2100 | 13985 | | | | | |
| Supply CFM | 2000 | 2400 | | | | | | |
| Supply Fan HP | 1 | 1 | | | | | | |
| O.A. CFM or % | 0% | 20% | | | | | | |
| Return CFM | | | | | | | | |
| Return Fan HP | | | | | | | | |
| Chiller Tonnage | 2 1/2 | 5 | | | | | | |
| Tower or Condenser Fan HP | | | | | | | | |
| Condenser Pump HP | | | | | | | | |
| Chilled Water Pump HP | | | | | | | | |
| HEATING: | | | | | | | | |
| Type of Heating | 2 | 2 | 2 | | | | | |
| Source | 2 | 2 | 2 | | | | | |
| MBTUH | | | | | | | | |
| Hot Water Pump HP | | | | | | | | |
| Condensate Pump HP | | | | | | | | |
| ADDITIONAL: | | | | | | | | |
| Aux. HP Cooling | | | | | | | | |
| Aux. HP Heating | | | | | | | | |
| Operating Schedule Hrs./Week | | | | | | | | |
| Type of Cooling | Type of Heating | | | | | | | |
| (1) Air Cooled DX | (1) Boiler Hot Water | | | | | | | |
| (2) Water Cooled DX | (2) Boiler Steam | | | | | | | |
| (3) Air Cooled Chiller | (3) Steam to Hot Water Converter | | | | | | | |
| | Heating Source | | | | | | | |
| (1) Single Zone | (1) Natural Gas | | | | | | | |
| (2) Multi-Zone | (2) Central Plant Steam | | | | | | | |
| (3) VAV | (3) Central Plant Hot Water | | | | | | | |
| | (4) Furnace | | | | | | | |
| | (4) Oil | | | | | | | |
| | (5) Electric | | | | | | | |

EMCS Annual Energy Savings Summary Report

```

=====
Base: FTMEADE
Building: 2484
Case: 1
Description: MEDICAL WAREHOUSE
=====

```

```

=====
Fuel Type: Fuel oil, distillate #2
Heating Value: 138,700 Btu/gal
=====

```

Caution

```

=====
The ESA program makes no attempt to exclude incompatible strategies.
It is the user's responsibility to select all appropriate strategies.
=====

```

Annual Energy Savings Table for Single Zone DX-A/C

```

=====
Description: MEZZANINE SPLIT-SYSTEM UNIT
=====

```

| Strategy | MBtu/yr | kWh/yr | kW | mh/yr |
|--------------------|-----------------|--------|-----|-------|
| Day/Night Setback | 22.368 | 136 | 0.0 | 0 |
| Vent/Recirculation | 4.444 | 0 | 0.0 | 0 |
| Run Time Recording | 0.000 | 0 | 0.0 | 2 |
| Safety Alarm | 0.000 | 0 | 0.0 | 2 |
| ----- | | | | |
| Subtotals | 26.812 | 136 | 0.0 | 4 |
| Heating Value / | 138,700 Btu/gal | | | |
| ===== | | | | |
| Totals | 193 | 136 | 0.0 | 4 |
| | gal/yr | kWh/yr | kW | mh/yr |
| ===== | | | | |

Annual Energy Savings Table for Single Zone DX-A/C

| Description: MAIN LEVEL OFFICE SPLIT-SYSTEM | | | | |
|---------------------------------------------|-----------------|------------|--------|---------|
| Strategy | MBtu/yr | kWh/yr | kW | mh/yr |
| Day/Night Setback | 22.368 | 136 | 0.0 | 0 |
| Vent/Recirculation | 3.703 | 0 | 0.0 | 0 |
| Run Time Recording | 0.000 | 0 | 0.0 | 2 |
| Safety Alarm | 0.000 | 0 | 0.0 | 2 |
| Subtotals | 26.072 | 136 | 0.0 | 4 |
| Heating Value / | 138,700 Btu/gal | | | |
| Totals | 188 gal/yr | 136 kWh/yr | 0.0 kW | 4 mh/yr |

Annual Energy Savings Table for Steam Unit Heater

| Description: steam unit heaters | | | | |
|---------------------------------|-----------------|----------|--------|---------|
| Strategy | MBtu/yr | kWh/yr | kW | mh/yr |
| Day/Night Setback | 297.925 | 0 | 0.0 | 0 |
| Run Time Recording | 0.000 | 0 | 0.0 | 2 |
| Safety Alarm | 0.000 | 0 | 0.0 | 2 |
| Subtotals | 297.925 | 0 | 0.0 | 4 |
| Heating Value / | 138,700 Btu/gal | | | |
| Totals | 2,148 gal/yr | 0 kWh/yr | 0.0 kW | 4 mh/yr |

Annual Energy Savings Table for Lighting Control

| Description: BLDG LIGHTING | | | | |
|----------------------------|---------------|---------------|--------|---------|
| Strategy | MBtu/yr | kWh/yr | kW | mh/yr |
| Lighting Control | 0.000 | 62,400 | 0.0 | 0 |
| Totals | 0.000 MBtu/yr | 62,400 kWh/yr | 0.0 kW | 0 mh/yr |

EMCS Annual Energy Savings for Building 2484

| Description | Value | Units |
|-----------------------------|--------|--------|
| Fuel oil, distillate #2 | 2,529 | gal/yr |
| Electrical Energy | 62,671 | kWh/yr |
| Electrical Demand Reduction | 0.0 | kW |
| Labor Savings | 12 | mh/yr |

FT. MEADE, MARYLAND

Building: 2490

Square feet 34,144

| Exterior Wall | |
|-----------------|-------------|
| Components | R-Value |
| Outside Surface | 0.17 |
| Brick | 0.44 |
| Air Space | 1.10 |
| Concrete Block | 1.72 |
| Inside Surface | 0.68 |
| | |
| | |
| | |
| Total R-Value | 4.11 |
| Total U-Value | 0.24 |

| Exterior Roof | |
|---------------------|--------------|
| Components | R-Value |
| Outside Surface | 0.17 |
| Built-up Roof | 0.33 |
| 1" Insulation | 6.00 |
| Concrete Deck | 1.08 |
| Air Space | 1.10 |
| Acoustical Tile Clg | 1.89 |
| Inside Surface | 0.61 |
| | |
| Total R-Value | 11.18 |
| Total U-Value | 0.09 |

| Calculated Total Area | |
|------------------------------|-------|
| No. of Floors | 3 |
| Avg. Floor to Floor Height | 12 |
| No. of Basement Levels | 1 |
| Gross Floor Area | 34144 |
| Roof Area | 9656 |
| Estimated Infiltration (cfm) | 2000 |
| Gross Wall Area | 15530 |
| Door Area | |
| Gross Window Area | 600 |
| Other | |
| Net Wall Area | 14930 |

| Window and Door | |
|-----------------------------|---------|
| | U-Value |
| Window Single Pane W/Storm | |
| Window Single Pane Wo/Storm | |
| Window Double Pane | 0.55 |
| Skylight | |
| Glass Block | |
| Other | |
| Door Type 1 | 0.60 |
| Door Type 2 | |
| Door Type 3 | |

$$UoAo = (14930 \times 0.24) + (9656 \times 0.09) + (600 \times 0.55) = 4782$$

**FT. MEADE, MARYLAND
EQUIPMENT SCHEDULE**

BUILDING NO. 2490

Page 1 of 1

| EQUIPMENT | SYSTEM NUMBER | | | | | | | |
|------------------------------|----------------------------------|---------|---------|----------|--------------|---------|-----------|---|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| Equipment Name | Chiller | Chiller | Clg Twr | AHU-1 | AHU-2 | AHU-3 | S-W Conv | |
| COOLING: | | | | | | | | |
| Type of Cooling | 4 | 4 | | 4 5 | 4 5 | 4 5 | | |
| Air Side | | | | Gen. Lab | Hood Make-up | Animals | | |
| Location in Building | | | | 27984 | | 6160 | | |
| Area Sq. Feet | | | | 26715 | 6470 | 4150 | | |
| Supply CFM | | | | 15 | 15 | 5 | | |
| Supply Fan HP | | | | 100% | 100% | 100% | | |
| O.A. CFM or % | | | | | | | | |
| Return CFM | | | | | | | | |
| Return Fan HP | | | | | | | | |
| Chiller Tonnage | 135 | 135 | 270 | | | | | |
| Tower or Condenser Fan HP | | | 15 | | | | | |
| Condenser Pump HP | | | | | | | | |
| Chilled Water Pump HP | 10 | 10 | (2) 15 | | | | | |
| HEATING: | | | | | | | | |
| Type of Heating | | | | | | | | |
| Source | | | | | | | | |
| MBTUH | | | | | | | 3 | |
| Hot Water Pump HP | | | | | | | 2 | |
| Condensate Pump HP | | | | | | | 2800 | |
| ADDITIONAL: | | | | | | | (2) 7 1/2 | |
| Aux. HP Cooling | | | | | | | | |
| Aux. HP Heating | | | | | | | | |
| Operating Schedule Hrs./Week | | | | | | | | |
| Type of Cooling | Type of Heating | | | | | | | |
| (1) Air Cooled DX | (1) Boiler Hot Water | | | | | | | |
| (2) Water Cooled DX | (2) Boiler Steam | | | | | | | |
| (3) Air Cooled Chiller | (3) Steam to Hot Water Converter | | | | | | | |
| Air Side | Heating Source | | | | | | | |
| (1) Single Zone | (1) Natural Gas | | | | | | | |
| (2) Multi-Zone | (2) Central Plant Steam | | | | | | | |
| (3) VAV | (3) Central Plant Hot Water | | | | | | | |
| | (4) Furnace | | | | | | | |
| | (4) Oil | | | | | | | |
| | (5) Electric | | | | | | | |

EMCS Annual Energy Savings Summary Report

```

=====
Base: FTMEADE
Building: 2490
Case: 1
Description: LABORATORY
-----
Fuel Type: Fuel oil, distillate #2
Heating Value: 138,700 Btu/gal
=====
    
```

Caution

```

=====
The ESA program makes no attempt to exclude incompatible strategies.
It is the user's responsibility to select all appropriate strategies.
=====
    
```

Annual Energy Savings Table for Terminal Reheat AHU

```

=====
Description: AHU-1
=====
Strategy                MBtu/yr      kWh/yr      kW   mh/yr
=====
Reheat Coil Reset      1,024.830    25,594      0.0   0
Run Time Recording      0.000        0           0.0   2
Safety Alarm            0.000        0           0.0   2
-----
Subtotals                1,024.830    25,594      0.0   4
Heating Value /        138,700 Btu/gal
=====
Totals                  7,389        25,594      0.0   4
                        gal/yr      kWh/yr      kW   mh/yr
=====
    
```

Annual Energy Savings Table for Water Cooled Chiller

| Description: CENTRIFUGAL CHILLER | | | | |
|----------------------------------|---------|--------|-----|-------|
| Strategy | MBtu/yr | kWh/yr | kW | mh/yr |
| Chiller Water Reset | 0.000 | 11,181 | 0.0 | 0 |
| Condenser Water Reset | 0.000 | 2,651 | 0.0 | 0 |
| Run Time Recording | 0.000 | 0 | 0.0 | 2 |
| Safety Alarm | 0.000 | 0 | 0.0 | 2 |
| Totals | 0.000 | 13,832 | 0.0 | 4 |
| | MBtu/yr | kWh/yr | kW | mh/yr |

EMCS Annual Energy Savings for Building 2490

| Description | Value | Units |
|-----------------------------|--------|--------|
| Fuel oil, distillate #2 | 7,389 | gal/yr |
| Electrical Energy | 39,426 | kWh/yr |
| Electrical Demand Reduction | 0.0 | kW |
| Labor Savings | 8 | mh/yr |

**UMCS FEASIBILITY STUDY
FORT MEADE
BUILDING 2490 - LABORATORY
DOE ENERGY SAVINGS SUMMARY**

| | Space Heat | | Space Cool Electricity mmBtu | HVAC Aux Electricity mmBtu | Lights Electricity mmBtu | Misc Equip Electricity mmBtu | TOTAL | | TOTAL | |
|---------------------|----------------------|-------------------|------------------------------------|----------------------------------|--------------------------------|------------------------------------|----------------------|----------------------|--------------------|---------------------|
| | Electricity mmBtu | Fuel-Oil mmBtu | | | | | Electricity mmBtu | Natural Gas mmBtu | Electricity Kwh | Fuel-Oil Gallons |
| Existing | 295.9 | 8,251.0 | 644.9 | 1,194.5 | 890.9 | 286.0 | 3,312.1 | 8,251.0 | 970,448 | 59,488 |
| New w/Vent/Recirc | 201.2 | 4,508.4 | 655.1 | 1,184.7 | 890.9 | 286.0 | 3,217.9 | 4,508.4 | 942,839 | 32,505 |
| Vent/Recirc Savings | | | | | | | 94.2 | 3,742.6 | 27,609 | 26,984 |
| | | | | | | | 0.0 | 0.0 | 0 | 0 |
| | | | | | | | 0.0 | 0.0 | 0 | 0 |
| | | | | | | | 0.0 | 0.0 | 0 | 0 |
| | | | | | | | 0.0 | 0.0 | 0 | 0 |

| MMDH | AHU-1 | AHU-1 | AHU-1 | AHU-1 | AHU-1 | AHU-1 | AHU-3 | AHU-3 |
|-----------------------|-------------------------------|-------------------------------|--------------------------|-------------------------------|-------------------------------|------------------------------|-------------------------------|-------------------------------|
| | TOT HTG COIL PWR BTU/HR | TOT CLG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR | TOT PREH ENERGY BTU/HR | TOT HTG COIL PWR BTU/HR | TOT CLG COIL PWR BTU/HR |
| | ---- (5) | ---- (6) | ---- (49) | ---- (70) | ---- (78) | ---- (10) | ---- (5) | ---- (6) |
| MONTHLY SUMMARY (JAN) | | | | | | | | |
| MN | 0. | 0. | 25.884 | 911142. | 0. | -1822246. | 0. | 0. |
| MX | 0. | 0. | 25.884 | 911142. | 0. | 0. | 0. | 0. |
| SM | 0. | 0. | 19257.922 | 677889728. | 0. | -670314048. | 0. | 0. |
| AV | 0. | 0. | 25.884 | 911142. | 0. | -900960. | 0. | 0. |
| MONTHLY SUMMARY (FEB) | | | | | | | | |
| MN | 0. | 0. | 25.884 | 911142. | 0. | -1846708. | 0. | 0. |
| MX | 0. | 0. | 25.884 | 911142. | 0. | 0. | 0. | 0. |
| SM | 0. | 0. | 17394.254 | 612287552. | 0. | -516797408. | 0. | 0. |
| AV | 0. | 0. | 25.884 | 911142. | 0. | -769044. | 0. | 0. |
| MONTHLY SUMMARY (MAR) | | | | | | | | |
| MN | 0. | 0. | 25.884 | 911142. | 0. | -1227478. | 0. | 0. |
| MX | 0. | 0. | 25.884 | 1037806. | 0. | 0. | 0. | 0. |
| SM | 0. | 0. | 19257.922 | 678529664. | 0. | -365551328. | 0. | 0. |
| AV | 0. | 0. | 25.884 | 912002. | 0. | -491332. | 0. | 0. |
| MONTHLY SUMMARY (APR) | | | | | | | | |
| MN | 0. | 0. | 25.884 | 911142. | 0. | -1001237. | 0. | 0. |
| MX | 0. | 0. | 25.884 | 1394832. | 0. | 0. | 0. | 71981. |
| SM | 0. | 0. | 18636.699 | 662835904. | 0. | -168527568. | 0. | 452991. |
| AV | 0. | 0. | 25.884 | 920605. | 0. | -234066. | 0. | 629. |
| MONTHLY SUMMARY (MAY) | | | | | | | | |
| MN | 0. | 0. | 25.884 | 911142. | 0. | -751561. | 0. | 0. |
| MX | 0. | 223135. | 25.884 | 1728923. | 0. | 0. | 0. | 99678. |
| SM | 0. | 2423871. | 19257.922 | 742160256. | 0. | -51228700. | -1. | 3716183. |
| AV | 0. | 3258. | 25.884 | 997527. | 0. | -68856. | 0. | 4995. |
| MONTHLY SUMMARY (JUN) | | | | | | | | |
| MN | 0. | 0. | 25.884 | 911142. | 0. | -112071. | 0. | 0. |
| MX | 0. | 1506098. | 25.884 | 2846064. | 0. | 0. | 0. | 296275. |
| SM | 0. | 98212672. | 18636.699 | 1007200704. | 0. | -483906. | -1. | 37219956. |
| AV | 0. | 136406. | 25.884 | 1398890. | 0. | -672. | 0. | 51694. |
| MONTHLY SUMMARY (JUL) | | | | | | | | |
| MN | 0. | 0. | 25.884 | 911142. | 0. | 0. | 0. | 0. |
| MX | 0. | 1930822. | 25.884 | 3241252. | 0. | 0. | 0. | 349664. |
| SM | 0. | 225146528. | 19257.922 | 1313815936. | 0. | 0. | 0. | 66818768. |
| AV | 0. | 302616. | 25.884 | 1765882. | 0. | 0. | 0. | 89810. |

| | AHU-1 | AHU-1 | AHU-1 | AHU-1 | AHU-1 | AHU-1 | AHU-3 | AHU-3 |
|-----------------------|-------------------------------|-------------------------------|--------------------------|-------------------------------|-------------------------------|------------------------------|-------------------------------|-------------------------------|
| | TOT HTG COIL PWR BTU/HR | TOT CLG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR | TOT PREH ENERGY BTU/HR | TOT HTG COIL PWR BTU/HR | TOT CLG COIL PWR BTU/HR |
| | ----(5) | ----(6) | ----(49) | ----(70) | ----(78) | ----(10) | ----(5) | ----(6) |
| MONTHLY SUMMARY (AUG) | | | | | | | | |
| MN | 0. | 0. | 25.884 | 911142. | 0. | -74265. | 0. | 0. |
| MX | 0. | 1860134. | 25.884 | 2928645. | 0. | 0. | 0. | 307650. |
| SM | 0. | 263893344. | 19257.922 | 1206385408. | 0. | -148386. | 0. | 56514432. |
| AV | 0. | 354695. | 25.884 | 1621486. | 0. | -199. | 0. | 75960. |
| MONTHLY SUMMARY (SEP) | | | | | | | | |
| MN | 0. | 0. | 25.884 | 911142. | 0. | -336175. | 0. | 0. |
| MX | 0. | 1723166. | 25.884 | 2758919. | 0. | 0. | 0. | 275601. |
| SM | 0. | 136040096. | 18636.699 | 921730368. | 0. | -8105397. | -1. | 27743118. |
| AV | 0. | 188945. | 25.884 | 1280181. | 0. | -11257. | 0. | 38532. |
| MONTHLY SUMMARY (OCT) | | | | | | | | |
| MN | 0. | 0. | 25.884 | 911142. | 0. | -867333. | 0. | 0. |
| MX | 0. | 425118. | 25.884 | 1490384. | 0. | 0. | 0. | 40776. |
| SM | 0. | 4112859. | 19257.922 | 704424768. | 0. | -94577544. | -3. | 178261. |
| AV | 0. | 5528. | 25.884 | 946808. | 0. | -127120. | 0. | 240. |
| MONTHLY SUMMARY (NOV) | | | | | | | | |
| MN | 0. | 0. | 25.884 | 911142. | 0. | -1017944. | 0. | 0. |
| MX | 0. | 0. | 25.884 | 2168328. | 0. | 0. | 0. | 0. |
| SM | 0. | 0. | 18636.699 | 691415360. | 0. | -286449856. | 0. | 0. |
| AV | 0. | 0. | 25.884 | 960299. | 0. | -397847. | 0. | 0. |
| MONTHLY SUMMARY (DEC) | | | | | | | | |
| MN | 0. | 0. | 25.884 | 911142. | 0. | -1487819. | 0. | 0. |
| MX | 0. | 0. | 25.884 | 911142. | 0. | 0. | 0. | 0. |
| SM | 0. | 0. | 19257.922 | 677889728. | 0. | -554310016. | 0. | 0. |
| AV | 0. | 0. | 25.884 | 911142. | 0. | -745040. | 0. | 0. |
| YEARLY SUMMARY | | | | | | | | |
| MN | 0. | 0. | 25.884 | 911142. | 0. | -1846708. | 0. | 0. |
| MX | 0. | 1930822. | 25.884 | 3241252. | 0. | 0. | 0. | 349664. |
| SM | 0. | 729829312. | 226746.516 | 9896566784. | 0. | -2716494336. | -6. | 192643712. |
| AV | 0. | 83314. | 25.884 | 1129745. | 0. | -310102. | 0. | 21991. |

| MMDDEH | AHU-3 | AHU-3 | AHU-3 | AHU-3 |
|-----------------------|--------------------------|-------------------------------|-------------------------------|------------------------------|
| | SUPPLY ELECTRIC KW | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR | TOT PREH ENERGY BTU/HR |
| | ----(49) | ----(70) | ----(78) | ----(10) |
| MONTHLY SUMMARY (JAN) | | | | |
| MN | 3.565 | 128031. | 0. | -250947. |
| MX | 3.565 | 128031. | 0. | 0. |
| SM | 2652.062 | 95255248. | 0. | -92310880. |
| AV | 3.565 | 128031. | 0. | -124074. |
| MONTHLY SUMMARY (FEB) | | | | |
| MN | 3.565 | 128031. | 0. | -254316. |
| MX | 3.565 | 128031. | 0. | 0. |
| SM | 2395.411 | 86036992. | 0. | -71169672. |
| AV | 3.565 | 128031. | 0. | -105907. |
| MONTHLY SUMMARY (MAR) | | | | |
| MN | 3.565 | 128031. | 0. | -169040. |
| MX | 3.565 | 145830. | 0. | 0. |
| SM | 2652.062 | 95345160. | 0. | -50341124. |
| AV | 3.565 | 128152. | 0. | -67663. |
| MONTHLY SUMMARY (APR) | | | | |
| MN | 3.565 | 128031. | 0. | -137883. |
| MX | 3.565 | 195998. | 0. | 0. |
| SM | 2566.511 | 93139928. | 0. | -23208404. |
| AV | 3.565 | 129361. | 0. | -32234. |
| MONTHLY SUMMARY (MAY) | | | | |
| MN | 3.565 | 128031. | 0. | -103500. |
| MX | 3.565 | 242944. | 0. | 0. |
| SM | 2652.062 | 104286376. | 0. | -7054840. |
| AV | 3.565 | 140170. | 0. | -9482. |
| MONTHLY SUMMARY (JUN) | | | | |
| MN | 3.565 | 128031. | 0. | -15433. |
| MX | 3.565 | 399921. | 0. | 0. |
| SM | 2566.511 | 141529072. | 0. | -66639. |
| AV | 3.565 | 196568. | 0. | -93. |
| MONTHLY SUMMARY (JUL) | | | | |
| MN | 3.565 | 128031. | 0. | 0. |
| MX | 3.565 | 455452. | 0. | 0. |
| SM | 2652.062 | 184613840. | 0. | 0. |
| AV | 3.565 | 248137. | 0. | 0. |

| | AHU-3 | AHU-3 | AHU-3 | AHU-3 |
|-----------------------|--------------------------|-------------------------------|-------------------------------|------------------------------|
| | SUPPLY ELECTRIC KW | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR | TOT PREH ENERGY BTU/HR |
| | ---(49) | ---(70) | ---(78) | ---(10) |
| MONTHLY SUMMARY (AUG) | | | | |
| MN | 3.565 | 128031. | 0. | -10227. |
| MX | 3.565 | 411525. | 0. | 0. |
| SM | 2652.062 | 169517984. | 0. | -20435. |
| AV | 3.565 | 227847. | 0. | -27. |
| MONTHLY SUMMARY (SEP) | | | | |
| MN | 3.565 | 128031. | 0. | -46296. |
| MX | 3.565 | 387676. | 0. | 0. |
| SM | 2566.511 | 129519072. | 0. | -1116213. |
| AV | 3.565 | 179888. | 0. | -1550. |
| MONTHLY SUMMARY (OCT) | | | | |
| MN | 3.565 | 128031. | 0. | -119443. |
| MX | 3.565 | 209425. | 0. | 0. |
| SM | 2652.062 | 98983904. | 0. | -13024533. |
| AV | 3.565 | 133043. | 0. | -17506. |
| MONTHLY SUMMARY (NOV) | | | | |
| MN | 3.565 | 128031. | 0. | -140184. |
| MX | 3.565 | 304688. | 0. | 0. |
| SM | 2566.511 | 97155824. | 0. | -39447824. |
| AV | 3.565 | 134939. | 0. | -54789. |
| MONTHLY SUMMARY (DEC) | | | | |
| MN | 3.565 | 128031. | 0. | -204892. |
| MX | 3.565 | 128031. | 0. | 0. |
| SM | 2652.062 | 95255248. | 0. | -76335640. |
| AV | 3.565 | 128031. | 0. | -102602. |
| YEARLY SUMMARY | | | | |
| MN | 3.565 | 128031. | 0. | -254316. |
| MX | 3.565 | 455452. | 0. | 0. |
| SM | 31225.893 | 1390638720. | 0. | -374096160. |
| AV | 3.565 | 158749. | 0. | -42705. |

MESSAGE LIST FROM PLANT PROGRAM

CAUTION***
TOWER WILL BE DEFINED FOR CHILLERS THAT NEED IT

ENTECH ENGINEERING
READING, PA 19603
REPORT- FV-A EQUIPMENT SIZES

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
FT. GEORGE G. MEADE

DOB-2.1D 1/26/1996 11:24:37 PDL RUN 1
BUILDING 2490 - EXISTING CONDITIONS
WEATHER FILE- BALTIMORE, MD

| EQUIPMENT | NUMBER | | NUMBER | | NUMBER | | NUMBER | | NUMBER | |
|----------------|----------|-------|----------|-------|----------|-------|----------|-------|----------|-------|
| | SIZE | INSTD | SIZE | INSTD | SIZE | INSTD | SIZE | INSTD | SIZE | INSTD |
| | (MBTU/H) | AVAIL | (MBTU/H) | AVAIL | (MBTU/H) | AVAIL | (MBTU/H) | AVAIL | (MBTU/H) | AVAIL |
| HW-BOILER | 2.832 | 1 | | 1 | | | | | | |
| OPEN-CENT-CHLR | 1.600 | 2 | | 2 | | | | | | |
| COOLING-TWR | 1.291 | 3 | | 3 | | | | | | |

| S I T E E N E R G Y | | | | | | | | | | | | | |
|---------------------|-----------------|--------------------|-------------------|---------------|-----------------------|--------------------|--------------------|--------------------|--------------------|------------------|------------------|-------------------|---------------------|
| MONTH | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| | TOTAL HEAT LOAD | TOTAL COOLING LOAD | TOTAL ELECTR LOAD | RCVRED ENERGY | WASTED RCVRABL ENERGY | FUEL INPUT COOLING | ELEC INPUT COOLING | FUEL INPUT HEATING | ELEC INPUT HEATING | FUEL INPUT ELECT | TOTAL FUEL INPUT | TOTAL SITE ENERGY | TOTAL SOURCE ENERGY |
| JAN | 1177.1 | 34.0 | 277.2 81.2E | 0.0 | 0.0 | 0.0 | 50.6 14.8E | 1608.2 | 53.5 15.7E | 0.0 | 1608.2 | 1885.4 | 2619.4 |
| FEB | 957.2 | 30.7 | 249.7 73.1E | 0.0 | 0.0 | 0.0 | 45.7 13.4E | 1326.2 | 47.5 13.9E | 0.0 | 1326.2 | 1575.9 | 2223.3 |
| MAR | 760.1 | 34.0 | 280.1 82.0E | 0.0 | 0.0 | 0.0 | 50.8 14.9E | 1102.4 | 48.2 14.1E | 0.0 | 1102.4 | 1382.5 | 2066.0 |
| APR | 451.9 | 33.3 | 258.5 75.7E | 0.0 | 0.0 | 0.0 | 50.5 14.8E | 689.0 | 37.8 11.1E | 0.0 | 689.0 | 947.5 | 1541.9 |
| MAY | 193.3 | 40.1 | 254.8 74.6E | 0.0 | 0.0 | 0.0 | 59.0 17.3E | 305.0 | 22.7 6.6E | 0.0 | 305.0 | 559.8 | 1104.0 |
| JUN | 61.9 | 168.3 | 280.3 82.1E | 0.0 | 0.0 | 0.0 | 93.0 27.2E | 101.2 | 13.0 3.8E | 0.0 | 101.2 | 381.5 | 954.1 |
| JUL | 27.2 | 325.9 | 310.4 90.9E | 0.0 | 0.0 | 0.0 | 131.1 38.4E | 44.4 | 10.2 3.0E | 0.0 | 44.4 | 354.8 | 981.4 |
| AUG | 49.1 | 354.4 | 327.7 96.0E | 0.0 | 0.0 | 0.0 | 134.4 39.4E | 80.3 | 12.1 3.5E | 0.0 | 80.3 | 408.0 | 1073.3 |
| SEP | 73.3 | 196.6 | 279.0 81.7E | 0.0 | 0.0 | 0.0 | 94.8 27.8E | 119.6 | 13.9 4.1E | 0.0 | 119.6 | 398.6 | 970.8 |
| OCT | 313.5 | 38.2 | 256.3 75.1E | 0.0 | 0.0 | 0.0 | 56.5 16.5E | 488.5 | 30.7 9.0E | 0.0 | 488.5 | 744.8 | 1312.5 |
| NOV | 637.7 | 32.9 | 261.0 76.4E | 0.0 | 0.0 | 0.0 | 50.1 14.7E | 943.3 | 44.6 13.1E | 0.0 | 943.3 | 1204.3 | 1831.9 |
| DEC | 1030.6 | 34.0 | 277.1 81.2E | 0.0 | 0.0 | 0.0 | 50.7 14.9E | 1442.6 | 53.2 15.6E | 0.0 | 1442.6 | 1719.7 | 2435.0 |
| | 5733.0 | 1322.3 | 3312.1 970.0E | 0.0 | 0.0 | 0.0 | 867.1 254.0E | 8250.8 | 387.2 113.4E | 0.0 | 8250.8 | 11562.8 | 19113.6 |

NOTE-- ALL ENTRIES ARE IN MBTU EXCEPT
 ENTRIES FOLLOWED BY E ARE IN MWH (THOUSANDS OF KWH)

ENTECH ENGINEERING
 READING, PA 19603
 REPORT- PS-B MONTHLY PEAK AND TOTAL ENERGY USE

EZDOR - ELITE SOFTWARE DEVELOPMENT INC
 FT. GEORGE G. MEADE

DOE-2.1D 1/26/1996 11:24:37 PDL RUN 1
 BUILDING 2490 - EXISTING CONDITIONS
 WEATHER FILE- BALTIMORE, MD

| MO | UTILITY- | ELECTRICITY | FUEL-OIL |
|-----|--------------|-------------|----------|
| | TOTAL (MBTU) | 277.197 | 1608.244 |
| JAN | PEAK (KBTU) | 569.958 | 3483.716 |
| | DY/HR | 31/19 | 31/ 1 |
| | TOTAL (MBTU) | 249.675 | 1326.190 |
| FEB | PEAK (KBTU) | 569.958 | 3539.580 |
| | DY/HR | 25/19 | 3/ 6 |
| | TOTAL (MBTU) | 280.119 | 1102.361 |
| MAR | PEAK (KBTU) | 569.958 | 2717.482 |
| | DY/HR | 31/19 | 5/ 4 |
| | TOTAL (MBTU) | 258.546 | 688.972 |
| APR | PEAK (KBTU) | 569.958 | 2390.740 |
| | DY/HR | 29/ 8 | 9/ 8 |
| | TOTAL (MBTU) | 254.772 | 305.029 |
| MAY | PEAK (KBTU) | 610.770 | 1983.135 |
| | DY/HR | 20/17 | 10/ 5 |
| | TOTAL (MBTU) | 280.270 | 101.220 |
| JUN | PEAK (KBTU) | 920.714 | 1150.280 |
| | DY/HR | 10/16 | 1/ 3 |
| | TOTAL (MBTU) | 310.371 | 44.435 |
| JUL | PEAK (KBTU) | 1033.307 | 809.574 |
| | DY/HR | 25/14 | 21/ 5 |
| | TOTAL (MBTU) | 327.696 | 80.272 |
| AUG | PEAK (KBTU) | 1004.658 | 1162.017 |
| | DY/HR | 31/15 | 22/ 4 |
| | TOTAL (MBTU) | 279.034 | 119.605 |
| SEP | PEAK (KBTU) | 957.896 | 1316.920 |
| | DY/HR | 2/14 | 30/ 6 |
| | TOTAL (MBTU) | 256.323 | 488.512 |
| OCT | PEAK (KBTU) | 630.783 | 2131.650 |
| | DY/HR | 13/16 | 28/ 6 |
| | TOTAL (MBTU) | 260.969 | 943.349 |
| NOV | PEAK (KBTU) | 569.958 | 2366.032 |
| | DY/HR | 30/19 | 9/ 6 |
| | TOTAL (MBTU) | 277.082 | 1442.592 |
| DEC | PEAK (KBTU) | 569.958 | 3023.045 |
| | DY/HR | 30/19 | 22/ 5 |
| | ONE YEAR | 3312.054 | 8250.782 |
| | USE/PEAK | 1033.307 | 3539.580 |

ENTECH ENGINEERING
READING, PA 19603
REPORT- PS-D PLANT LOADS SATISFIED

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
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DOE-2.1D 1/26/1996 11:24:37 PDL RUN 1
BUILDING 2490 - EXISTING CONDITIONS
WEATHER FILE- BALTIMORE, MD

| HEATING LOADS | MBTU SUPPLIED | PCT OF TOTAL LOAD |
|---------------------|---------------|-------------------|
| ----- | ----- | ----- |
| HW-BOILER | 5732.8 | 100.0 |
| | ----- | ----- |
| LOAD SATISFIED | 5732.8 | 100.0 |
| TOTAL LOAD ON PLANT | 5732.8 | |

| COOLING LOADS | MBTU SUPPLIED | PCT OF TOTAL LOAD |
|---------------------|---------------|-------------------|
| ----- | ----- | ----- |
| OPEN-CENT-CHLR | 1322.4 | 100.0 |
| | ----- | ----- |
| LOAD SATISFIED | 1322.4 | 100.0 |
| TOTAL LOAD ON PLANT | 1322.4 | |

| ELECTRICAL LOADS | MBTU SUPPLIED | PCT OF TOTAL LOAD |
|---------------------|---------------|-------------------|
| ----- | ----- | ----- |
| ELECTRICITY | 3312.1 | 100.0 |
| | ----- | ----- |
| LOAD SATISFIED | 3312.1 | 100.0 |
| TOTAL LOAD ON PLANT | 3312.0 | |

TOWER ABOVE DESIGN TEMPERATURE OF 85.F 9 HOURS
MAXIMUM TOWER EXIT TEMPERATURE = 86.F

ENTTECH ENGINEERING
READING, PA 19603
REPORT- PS-D PLANT LOADS SATISFIED

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
PT. GEORGE G. MEADE

DOE-2.1D 1/26/1996 11:24:37 PDL RUN 1
BUILDING 2490 - EXISTING CONDITIONS
WEATHER FILE- BALTIMORE, MD
----- (CONTINUED) -----

SUMMARY OF LOADS MET

| TYPE OF LOAD | TOTAL LOAD (MBTU) | LOAD SATISFIED (MBTU) | TOTAL OVERLOAD (MBTU) | PEAK OVERLOAD (MBTU) | HOURS OVERLOADED |
|------------------|-------------------------|-----------------------------|-----------------------------|----------------------------|---------------------|
| HEATING LOADS | 5732.8 | 5732.8 | 0.000 | 0.000 | 0 |
| COOLING LOADS | 1322.4 | 1322.4 | 0.000 | 0.000 | 0 |
| ELECTRICAL LOADS | 3312.0 | 3312.1 | 0.000 | 0.000 | 0 |

ENTECH ENGINEERING
READING, PA 19603
REPORT- PS-I EQUIPMENT LIFE CYCLE COSTS

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
FT. GEORGE G. MEADE

DOE-2.1D 1/26/1996 11:24:37 PDL RUN 1
BUILDING 2490 - EXISTING CONDITIONS
WEATHER FILE- BALTIMORE, MD

E Q U I P M E N T T O T A L S

| | | | |
|-----------------------|-------|-------|--|
| HW-BOILER | 98.3 | | |
| NOMINAL SIZE (MBTU) | | 2.832 | |
| NUMBER INSTALLED | | 1 | |
| FIRST COST (K\$) | 71.2 | 71.2 | |
| ANNUAL COST (K\$) | 1.1 | 1.1 | |
| CYCLICAL COST (K\$) | 26.0 | 26.0 | |
| -----TOTAL----- (K\$) | | 98.3 | |
| OPEN-CENT-CHLR | 138.0 | | |
| NOMINAL SIZE (MBTU) | | 1.600 | |
| NUMBER INSTALLED | | 2 | |
| FIRST COST (K\$) | 93.3 | 93.3 | |
| ANNUAL COST (K\$) | 15.2 | 15.2 | |
| CYCLICAL COST (K\$) | 29.5 | 29.5 | |
| -----TOTAL----- (K\$) | | 138.0 | |
| COOLING-TWR | 266.8 | | |
| NOMINAL SIZE (MBTU) | | 1.291 | |
| NUMBER INSTALLED | | 3 | |
| FIRST COST (K\$) | 52.5 | 52.5 | |
| ANNUAL COST (K\$) | 104.6 | 104.6 | |
| CYCLICAL COST (K\$) | 109.6 | 109.6 | |
| -----TOTAL----- (K\$) | | 266.8 | |
| EQUIPMENT TOTAL | 503.1 | | |

ENTECH ENGINEERING
READING, PA 19603
REPORT- BEPS ESTIMATED BUILDING ENERGY PERFORMANCE

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
FT. GEORGE G. MEADE

DOB-2.1D 1/26/1996 11:24:37 PDL RUN 1
BUILDING 2490 - EXISTING CONDITIONS
WEATHER FILE- BALTIMORE, MD

| ENERGY TYPE IN SITE MBTU - | ELECTRICITY | FUEL-OIL |
|-------------------------------|-------------|----------|
| CATEGORY OF USE | | |
| SPACE HEAT | 295.85 | 8251.03 |
| SPACE COOL | 644.86 | 0.00 |
| HVAC AUX | 1194.52 | 0.00 |
| DOM HOT WTR | 0.00 | 0.00 |
| AUX SOLAR | 0.00 | 0.00 |
| LIGHTS | 890.93 | 0.00 |
| VERT TRANS | 0.00 | 0.00 |
| MISC EQUIP | 285.98 | 0.00 |
| | ----- | ----- |
| TOTAL | 3312.14 | 8251.03 |

| | | | |
|---------------------|---------------|-------------------------------|-----------------------------|
| TOTAL SITE ENERGY | 11562.84 MBTU | 325.7 KBTU/SQFT-YR GROSS-AREA | 325.7 KBTU/SQFT-YR NET-AREA |
| TOTAL SOURCE ENERGY | 19113.64 MBTU | 538.4 KBTU/SQFT-YR GROSS-AREA | 538.4 KBTU/SQFT-YR NET-AREA |

PERCENT OF HOURS ANY SYSTEM ZONE OUTSIDE OF THROTTLING RANGE = 0.0
PERCENT OF HOURS ANY PLANT LOAD NOT SATISFIED = 0.0

NOTE ELECTRICITY AND/OR FUEL USED TO GENERATE ELECTRICITY IS APPORTIONED BASED
ON THE YEARLY DEMAND. ALL OTHER ENERGY TYPES ARE APPORTIONED HOURLY.

W/VENT + RECIPE

| MMDDHH | HW-BOILE R LOAD BTU/HR | HW-BOILE R ELECTRIC USE BTU/HR | HW-BOILE R FUEL USE BTU/HR | OPEN-CEN T-CHLR LOAD BTU/HR | OPEN-CEN T-CHLR ELECTRIC USE BTU/HR | OPEN-CEN T-CHLR TOWER LOAD BTU/HR | OPEN-CEN T-CHLR CONDENSER FAN ELEC BTU/HR |
|-----------------------|---------------------------------|--------------------------------------------|----------------------------------------|--------------------------------------|-------------------------------------------------|-----------------------------------------------|-------------------------------------------------------|
| | ---- (1) . | ---- (3) . | ---- (4) . | ---- (1) . | ---- (3) . | ---- (5) . | ---- (18) |
| MONTHLY SUMMARY (JAN) | | | | | | | |
| MN | 409245. | 36014. | 668764. | 45639. | 20367. | 63969. | 0. |
| MX | 2778430. | 62297. | 3483716. | 45639. | 20367. | 63969. | 0. |
| SM | 1177080704. | 45700760. | 1608244480. | 33955288. | 15153048. | 47593048. | 0. |
| AV | 1582098. | 61426. | 2161619. | 45639. | 20367. | 63969. | 0. |
| MONTHLY SUMMARY (FEB) | | | | | | | |
| MN | 72096. | 6344. | 117815. | 45639. | 20367. | 63969. | 0. |
| MX | 2831664. | 62297. | 3539580. | 45639. | 20367. | 63969. | 0. |
| SM | 957218240. | 40451064. | 1326188672. | 30669294. | 13686624. | 42987268. | 0. |
| AV | 1424432. | 60195. | 1973495. | 45639. | 20367. | 63969. | 0. |
| MONTHLY SUMMARY (MAR) | | | | | | | |
| MN | 18741. | 1649. | 30625. | 45639. | 20367. | 63969. | 0. |
| MX | 2066465. | 62297. | 2717482. | 45639. | 20739. | 64304. | 0. |
| SM | 760058624. | 40396520. | 1102359936. | 33955288. | 15153420. | 47593384. | 0. |
| AV | 1021584. | 54296. | 1481667. | 45639. | 20368. | 63970. | 0. |
| MONTHLY SUMMARY (APR) | | | | | | | |
| MN | 18741. | 1649. | 30625. | 45639. | 20367. | 63969. | 0. |
| MX | 1772491. | 62297. | 2390740. | 117620. | 54403. | 166583. | 0. |
| SM | 451919232. | 30258668. | 688971648. | 33312950. | 14885350. | 46709776. | 0. |
| AV | 627666. | 42026. | 956905. | 46268. | 20674. | 64875. | 0. |
| MONTHLY SUMMARY (MAY) | | | | | | | |
| MN | 18741. | 1649. | 30625. | 45639. | 20367. | 63969. | 0. |
| MX | 1413163. | 62297. | 1983135. | 353016. | 87828. | 432062. | 0. |
| SM | 193289152. | 14910120. | 305029888. | 40095348. | 17477772. | 55825348. | 0. |
| AV | 259797. | 20040. | 409986. | 53892. | 23492. | 75034. | 0. |
| MONTHLY SUMMARY (JUN) | | | | | | | |
| MN | 18741. | 1649. | 30625. | 45639. | 20367. | 63969. | 0. |
| MX | 703906. | 61944. | 1150280. | 1845382. | 350658. | 2158441. | 0. |
| SM | 61941148. | 5450820. | 101220496. | 168292576. | 43861156. | 207767632. | 0. |
| AV | 86029. | 7571. | 140584. | 233740. | 60918. | 288566. | 0. |
| MONTHLY SUMMARY (JUL) | | | | | | | |
| MN | 18741. | 1649. | 30625. | 45639. | 20367. | 63969. | 0. |
| MX | 495413. | 43596. | 809574. | 2326125. | 463250. | 2743050. | 0. |
| SM | 27191824. | 2392880. | 44435236. | 325920608. | 74860312. | 393294848. | 0. |
| AV | 36548. | 3216. | 59725. | 438065. | 100619. | 528622. | 0. |

| | HW-BOILE R LOAD BTU/HR | HW-BOILE R ELECTRIC USE BTU/HR | HW-BOILE R FUEL USE BTU/HR | OPEN-CEN T-CHLR LOAD BTU/HR | OPEN-CEN T-CHLR ELBCTRIC USE BTU/HR | OPEN-CEN T-CHLR TOWER LOAD BTU/HR | OPEN-CEN T-CHLR CONDENSER FAN ELEC BTU/HR |
|-----------------------|---------------------------------|--------------------------------------------|----------------------------------------|--------------------------------------|-------------------------------------------------|-----------------------------------------------|-------------------------------------------------------|
| | ---- (1) | ---- (3) | ---- (4) | ---- (1) | ---- (3) | ---- (5) | ----(18) |
| MONTHLY SUMMARY (AUG) | | | | | | | |
| MN | 18741. | 1649. | 30625. | 45639. | 20367. | 63969. | 0. |
| MX | 712249. | 62297. | 1162017. | 2213422. | 434601. | 2604563. | 0. |
| SM | 49122924. | 4322436. | 80271840. | 354363040. | 76715880. | 423407360. | 0. |
| AV | 66025. | 5810. | 107892. | 476294. | 103113. | 569096. | 0. |
| MONTHLY SUMMARY (SEP) | | | | | | | |
| MN | 18741. | 1649. | 30625. | 45639. | 20367. | 63969. | 0. |
| MX | 842256. | 62297. | 1316920. | 2042567. | 387840. | 2391623. | 0. |
| SM | 73332584. | 6407327. | 119605408. | 196643168. | 47278832. | 239194160. | 0. |
| AV | 101851. | 8899. | 166119. | 273116. | 65665. | 332214. | 0. |
| MONTHLY SUMMARY (OCT) | | | | | | | |
| MN | 18741. | 1649. | 30625. | 45639. | 20367. | 63969. | 0. |
| MX | 1543167. | 62297. | 2131650. | 511533. | 107204. | 608016. | 0. |
| SM | 313510112. | 22968548. | 488511936. | 38246412. | 16410418. | 53015800. | 0. |
| AV | 421385. | 30872. | 656602. | 51406. | 22057. | 71258. | 0. |
| MONTHLY SUMMARY (NOV) | | | | | | | |
| MN | 18741. | 1649. | 30625. | 45639. | 20367. | 63969. | 0. |
| MX | 1750481. | 62297. | 2366032. | 45639. | 23318. | 66625. | 0. |
| SM | 637707264. | 37133480. | 943348800. | 32859958. | 14753118. | 46137780. | 0. |
| AV | 885705. | 51574. | 1310207. | 45639. | 20490. | 64080. | 0. |
| MONTHLY SUMMARY (DEC) | | | | | | | |
| MN | 120827. | 10633. | 197448. | 45639. | 20367. | 63969. | 0. |
| MX | 2346450. | 62297. | 3023045. | 45639. | 20367. | 63969. | 0. |
| SM | 1030591552. | 45449528. | 1442592384. | 33955288. | 15153048. | 47593048. | 0. |
| AV | 1385204. | 61088. | 1938968. | 45639. | 20367. | 63969. | 0. |
| YEARLY SUMMARY | | | | | | | |
| MN | 18741. | 1649. | 30625. | 45639. | 20367. | 63969. | 0. |
| MX | 2831664. | 62297. | 3539580. | 2326125. | 463250. | 2743050. | 0. |
| SM | 5732963328. | 295842144. | 8250781184. | 1322269184. | 365388992. | 1651119360. | 0. |
| AV | 654448. | 33772. | 941870. | 150944. | 41711. | 188484. | 0. |

| MMDDHH | AHU-1 | AHU-1 | AHU-1 | AHU-1 | AHU-1 | AHU-1 | AHU-3 | AHU-3 |
|-----------------------|-------------------------------|-------------------------------|--------------------------|-------------------------------|-------------------------------|------------------------------|-------------------------------|-------------------------------|
| | TOT HTG COIL PWR BTU/HR | TOT CLG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR | TOT PREH ENERGY BTU/HR | TOT HTG COIL PWR BTU/HR | TOT CLG COIL PWR BTU/HR |
| | ---- (5) | ---- (6) | ---- (49) | ---- (70) | ---- (78) | ---- (10) | ---- (5) | ---- (6) |
| MONTHLY SUMMARY (JAN) | | | | | | | | |
| MN | -3805. | 0. | 25.884 | 818023. | 0. | -1822246. | 0. | 0. |
| MX | 0. | 0. | 25.884 | 818023. | 0. | 0. | 0. | 0. |
| SM | -118469. | 0. | 19257.922 | 608609600. | 0. | -229892544. | 0. | 0. |
| AV | -159. | 0. | 25.884 | 818024. | 0. | -308995. | 0. | 0. |
| MONTHLY SUMMARY (FEB) | | | | | | | | |
| MN | -4421. | 0. | 25.884 | 818023. | 0. | -1846708. | 0. | 0. |
| MX | 0. | 0. | 25.884 | 818023. | 0. | 0. | 0. | 0. |
| SM | -118254. | 0. | 17394.254 | 549711872. | 0. | -157601296. | 0. | 0. |
| AV | -176. | 0. | 25.884 | 818024. | 0. | -234526. | 0. | 0. |
| MONTHLY SUMMARY (MAR) | | | | | | | | |
| MN | -11735. | 0. | 25.884 | 818023. | 0. | -1142222. | 0. | 0. |
| MX | 0. | 0. | 25.884 | 1017039. | 0. | 0. | 0. | 0. |
| SM | -173222. | 0. | 19257.922 | 609498432. | 0. | -111306144. | 0. | 0. |
| AV | -233. | 0. | 25.884 | 819218. | 0. | -149605. | 0. | 0. |
| MONTHLY SUMMARY (APR) | | | | | | | | |
| MN | -20061. | 0. | 25.884 | 818023. | 0. | -1001214. | 0. | 0. |
| MX | 0. | 0. | 25.884 | 1252280. | 0. | 0. | 0. | 71981. |
| SM | -420189. | 0. | 18636.699 | 597961152. | 0. | -46799436. | 0. | 452991. |
| AV | -584. | 0. | 25.884 | 830502. | 0. | -64999. | 0. | 629. |
| MONTHLY SUMMARY (MAY) | | | | | | | | |
| MN | -11318. | 0. | 25.884 | 818023. | 0. | -700012. | 0. | 0. |
| MX | 0. | 347743. | 25.884 | 1628808. | 0. | 0. | 0. | 99678. |
| SM | -1119894. | 6460370. | 19257.922 | 696699392. | 0. | -15195893. | -1. | 3716183. |
| AV | -1505. | 8683. | 25.884 | 936424. | 0. | -20425. | 0. | 4995. |
| MONTHLY SUMMARY (JUN) | | | | | | | | |
| MN | -16779. | 0. | 25.884 | 818023. | 0. | -72716. | 0. | 0. |
| MX | 0. | 1484142. | 25.884 | 2555196. | 0. | 0. | 0. | 296275. |
| SM | -825419. | 122634264. | 18636.699 | 942513216. | 0. | -72716. | -1. | 37219956. |
| AV | -1146. | 170325. | 25.884 | 1309046. | 0. | -101. | 0. | 51694. |
| MONTHLY SUMMARY (JUL) | | | | | | | | |
| MN | -7408. | 0. | 25.884 | 818023. | 0. | 0. | 0. | 0. |
| MX | 0. | 1866665. | 25.884 | 2796499. | 0. | 0. | 0. | 349664. |
| SM | -142129. | 229301056. | 19257.922 | 1158264192. | 0. | 0. | 0. | 66818768. |
| AV | -191. | 308200. | 25.884 | 1556807. | 0. | 0. | 0. | 89810. |

| | AHU-1 | AHU-1 | AHU-1 | AHU-1 | AHU-1 | AHU-1 | AHU-3 | AHU-3 |
|-----------------------|-------------------------------|-------------------------------|--------------------------|-------------------------------|-------------------------------|------------------------------|-------------------------------|-------------------------------|
| | TOT HTG COIL PWR BTU/HR | TOT CLG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR | TOT PREH ENERGY BTU/HR | TOT HTG COIL PWR BTU/HR | TOT CLG COIL PWR BTU/HR |
| | ---- (5) | ---- (6) | ----(49) | ---- (70) | ----(78) | ----(10) | ---- (5) | ---- (6) |
| MONTHLY SUMMARY (AUG) | | | | | | | | |
| MN | -5316. | 0. | 25.884 | 818023. | 0. | 0. | 0. | 0. |
| MX | 0. | 1829112. | 25.884 | 2629337. | 0. | 0. | 0. | 307650. |
| SM | -155772. | 268427968. | 19257.922 | 1078595200. | 0. | 0. | 0. | 56514432. |
| AV | -209. | 360790. | 25.884 | 1449725. | 0. | 0. | 0. | 75960. |
| MONTHLY SUMMARY (SEP) | | | | | | | | |
| MN | -9633. | 0. | 25.884 | 818023. | 0. | -336175. | 0. | 0. |
| MX | 0. | 1643724. | 25.884 | 2476958. | 0. | 0. | 0. | 275601. |
| SM | -573029. | 143682720. | 18636.699 | 823260608. | 0. | -2183881. | -1. | 27743118. |
| AV | -796. | 199559. | 25.884 | 1143418. | 0. | -3033. | 0. | 38532. |
| MONTHLY SUMMARY (OCT) | | | | | | | | |
| MN | -16921. | 0. | 25.884 | 818023. | 0. | -867333. | 0. | 0. |
| MX | 0. | 633490. | 25.884 | 1338067. | 0. | 0. | 0. | 40776. |
| SM | -759861. | 14288077. | 19257.922 | 640390976. | 0. | -19483860. | -3. | 178261. |
| AV | -1021. | 19204. | 25.884 | 860741. | 0. | -26188. | 0. | 240. |
| MONTHLY SUMMARY (NOV) | | | | | | | | |
| MN | -9475. | 0. | 25.884 | 818023. | 0. | -1008452. | 0. | 0. |
| MX | 0. | 0. | 25.884 | 1946725. | 0. | 0. | 0. | 0. |
| SM | -188957. | 0. | 18636.699 | 627310400. | 0. | -84520880. | 0. | 0. |
| AV | -262. | 0. | 25.884 | 871264. | 0. | -117390. | 0. | 0. |
| MONTHLY SUMMARY (DEC) | | | | | | | | |
| MN | -2780. | 0. | 25.884 | 818023. | 0. | -1483344. | 0. | 0. |
| MX | 0. | 0. | 25.884 | 860439. | 0. | 0. | 0. | 0. |
| SM | -123011. | 0. | 19257.922 | 608720896. | 0. | -180630016. | 0. | 0. |
| AV | -165. | 0. | 25.884 | 818173. | 0. | -242782. | 0. | 0. |
| YEARLY SUMMARY | | | | | | | | |
| MN | -20061. | 0. | 25.884 | 818023. | 0. | -1846708. | 0. | 0. |
| MX | 0. | 1866665. | 25.884 | 2796499. | 0. | 0. | 0. | 349664. |
| SM | -4718207. | 784794432. | 226746.516 | 8941536256. | 0. | -847686656. | -6. | 192643712. |
| AV | -539. | 89588. | 25.884 | 1020723. | 0. | -96768. | 0. | 21991. |

| MMDDEH | AHU-3 | AHU-3 | AHU-3 | AHU-3 |
|-----------------------|--------------------------|-------------------------------|-------------------------------|------------------------------|
| | SUPPLY ELECTRIC KW | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR | TOT PREH ENERGY BTU/HR |
| | ----(49) | ----(70) | ----(78) | ----(10) |
| MONTHLY SUMMARY (JAN) | | | | |
| MN | 3.565 | 128031. | 0. | -250947. |
| MX | 3.565 | 128031. | 0. | 0. |
| SM | 2652.062 | 95255248. | 0. | -92310880. |
| AV | 3.565 | 128031. | 0. | -124074. |
| MONTHLY SUMMARY (FEB) | | | | |
| MN | 3.565 | 128031. | 0. | -254316. |
| MX | 3.565 | 128031. | 0. | 0. |
| SM | 2395.411 | 86036992. | 0. | -71169672. |
| AV | 3.565 | 128031. | 0. | -105907. |
| MONTHLY SUMMARY (MAR) | | | | |
| MN | 3.565 | 128031. | 0. | -169040. |
| MX | 3.565 | 145830. | 0. | 0. |
| SM | 2652.062 | 95345160. | 0. | -50341124. |
| AV | 3.565 | 128152. | 0. | -67663. |
| MONTHLY SUMMARY (APR) | | | | |
| MN | 3.565 | 128031. | 0. | -137883. |
| MX | 3.565 | 195998. | 0. | 0. |
| SM | 2566.511 | 93139928. | 0. | -23208404. |
| AV | 3.565 | 129361. | 0. | -32234. |
| MONTHLY SUMMARY (MAY) | | | | |
| MN | 3.565 | 128031. | 0. | -103500. |
| MX | 3.565 | 242944. | 0. | 0. |
| SM | 2652.062 | 104286376. | 0. | -7054840. |
| AV | 3.565 | 140170. | 0. | -9482. |
| MONTHLY SUMMARY (JUN) | | | | |
| MN | 3.565 | 128031. | 0. | -15433. |
| MX | 3.565 | 399921. | 0. | 0. |
| SM | 2566.511 | 141529072. | 0. | -66639. |
| AV | 3.565 | 196568. | 0. | -93. |
| MONTHLY SUMMARY (JUL) | | | | |
| MN | 3.565 | 128031. | 0. | 0. |
| MX | 3.565 | 455452. | 0. | 0. |
| SM | 2652.062 | 184613840. | 0. | 0. |
| AV | 3.565 | 248137. | 0. | 0. |

| | AHU-3 | AHU-3 | AHU-3 | AHU-3 |
|-----------------------|--------------------------|-------------------------------|-------------------------------|------------------------------|
| | SUPPLY ELECTRIC KW | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR | TOT PREH ENERGY BTU/HR |
| | ----(49) | ----(70) | ----(78) | ----(10) |
| MONTHLY SUMMARY (AUG) | | | | |
| MN | 3.565 | 128031. | 0. | -10227. |
| MX | 3.565 | 411525. | 0. | 0. |
| SM | 2652.062 | 169517984. | 0. | -20435. |
| AV | 3.565 | 227847. | 0. | -27. |
| MONTHLY SUMMARY (SEP) | | | | |
| MN | 3.565 | 128031. | 0. | -46296. |
| MX | 3.565 | 387676. | 0. | 0. |
| SM | 2566.511 | 129519072. | 0. | -1116213. |
| AV | 3.565 | 179888. | 0. | -1550. |
| MONTHLY SUMMARY (OCT) | | | | |
| MN | 3.565 | 128031. | 0. | -119443. |
| MX | 3.565 | 209425. | 0. | 0. |
| SM | 2652.062 | 98983904. | 0. | -13024533. |
| AV | 3.565 | 133043. | 0. | -17506. |
| MONTHLY SUMMARY (NOV) | | | | |
| MN | 3.565 | 128031. | 0. | -140184. |
| MX | 3.565 | 304688. | 0. | 0. |
| SM | 2566.511 | 97155824. | 0. | -39447824. |
| AV | 3.565 | 134939. | 0. | -54789. |
| MONTHLY SUMMARY (DEC) | | | | |
| MN | 3.565 | 128031. | 0. | -204892. |
| MX | 3.565 | 128031. | 0. | 0. |
| SM | 2652.062 | 95255248. | 0. | -76335640. |
| AV | 3.565 | 128031. | 0. | -102602. |
| YEARLY SUMMARY | | | | |
| MN | 3.565 | 128031. | 0. | -254316. |
| MX | 3.565 | 455452. | 0. | 0. |
| SM | 31225.893 | 1390638720. | 0. | -374096160. |
| AV | 3.565 | 158749. | 0. | -42705. |

MESSAGE LIST FROM PLANT PROGRAM

CAUTION***
TOWER WILL BE DEFINED FOR CHILLERS THAT NEED IT

| S I T E E N E R G Y | | | | | | | | | | | | | |
|---------------------|-----------------|--------------------|-------------------|---------------|-----------------------|--------------------|--------------------|--------------------|--------------------|------------------|------------------|-------------------|---------------------|
| | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| MONTH | TOTAL HEAT LOAD | TOTAL COOLING LOAD | TOTAL ELECTR LOAD | RCVRED ENERGY | WASTED RCVRABL ENERGY | FUEL INPUT COOLING | ELEC INPUT COOLING | FUEL INPUT HEATING | ELEC INPUT HEATING | FUEL INPUT ELECT | TOTAL FUEL INPUT | TOTAL SITE ENERGY | TOTAL SOURCE ENERGY |
| JAN | 660.1 | 33.0 | 268.9 78.8E | 0.0 | 0.0 | 0.0 | 49.6 14.5E | 974.7 | 46.1 13.5E | 0.0 | 974.7 | 1243.6 | 1890.6 |
| FEB | 520.1 | 29.8 | 241.0 70.6E | 0.0 | 0.0 | 0.0 | 44.8 13.1E | 781.1 | 39.6 11.6E | 0.0 | 781.1 | 1022.1 | 1591.5 |
| MAR | 403.6 | 33.0 | 267.8 78.4E | 0.0 | 0.0 | 0.0 | 49.8 14.6E | 627.5 | 36.8 10.3E | 0.0 | 627.5 | 895.4 | 1501.6 |
| APR | 211.0 | 32.4 | 243.7 71.4E | 0.0 | 0.0 | 0.0 | 49.6 14.5E | 335.0 | 23.9 7.0E | 0.0 | 335.0 | 578.7 | 1104.1 |
| MAY | 79.9 | 43.2 | 246.0 72.1E | 0.0 | 0.0 | 0.0 | 58.7 17.2E | 128.8 | 14.2 4.1E | 0.0 | 128.8 | 374.9 | 882.0 |
| JUN | 19.3 | 191.8 | 280.7 82.2E | 0.0 | 0.0 | 0.0 | 97.4 28.5E | 31.6 | 8.9 2.6E | 0.0 | 31.6 | 312.2 | 877.9 |
| JUL | 13.6 | 329.1 | 309.5 90.6E | 0.0 | 0.0 | 0.0 | 131.7 38.6E | 22.3 | 8.7 2.5E | 0.0 | 22.3 | 331.8 | 954.2 |
| AUG | 17.1 | 357.9 | 325.4 95.3E | 0.0 | 0.0 | 0.0 | 135.2 39.6E | 28.0 | 9.0 2.6E | 0.0 | 28.0 | 353.4 | 1008.3 |
| SEP | 22.8 | 203.4 | 276.2 80.9E | 0.0 | 0.0 | 0.0 | 96.7 28.3E | 37.3 | 9.2 2.7E | 0.0 | 37.3 | 313.4 | 870.7 |
| OCT | 118.4 | 47.5 | 244.8 71.7E | 0.0 | 0.0 | 0.0 | 58.5 17.1E | 190.1 | 17.2 5.0E | 0.0 | 190.1 | 434.9 | 946.5 |
| NOV | 319.2 | 31.9 | 246.7 72.2E | 0.0 | 0.0 | 0.0 | 49.1 14.4E | 500.9 | 31.3 9.2E | 0.0 | 500.9 | 747.6 | 1297.4 |
| DEC | 562.3 | 33.0 | 267.1 78.2E | 0.0 | 0.0 | 0.0 | 49.8 14.6E | 851.1 | 44.1 12.9E | 0.0 | 851.1 | 1118.2 | 1747.6 |
| | 2947.5 | 1366.0 | 3217.8 942.4E | 0.0 | 0.0 | 0.0 | 871.1 255.1E | 4508.4 | 289.0 84.7E | 0.0 | 4508.4 | 7726.1 | 14672.3 |

NOTE-- ALL ENTRIES ARE IN MBTU EXCEPT
 ENTRIES FOLLOWED BY E ARE IN MWH (THOUSANDS OF KWH)

| MO | UTILITY- | ELECTRICITY | FUEL-OIL |
|-----|--------------|-------------|----------|
| | TOTAL (MBTU) | 268.923 | 974.679 |
| JAN | PEAK (KBTU) | 565.814 | 3361.637 |
| | DY/HR | 31/19 | 31/ 7 |
| | TOTAL (MBTU) | 240.953 | 781.102 |
| FEB | PEAK (KBTU) | 565.814 | 3400.547 |
| | DY/HR | 25/19 | 3/ 7 |
| | TOTAL (MBTU) | 267.848 | 627.545 |
| MAR | PEAK (KBTU) | 565.814 | 2454.148 |
| | DY/HR | 31/19 | 4/ 7 |
| | TOTAL (MBTU) | 243.734 | 334.964 |
| APR | PEAK (KBTU) | 565.814 | 2202.541 |
| | DY/HR | 29/ 8 | 8/ 7 |
| | TOTAL (MBTU) | 246.020 | 128.848 |
| MAY | PEAK (KBTU) | 628.185 | 1762.971 |
| | DY/HR | 26/17 | 10/ 7 |
| | TOTAL (MBTU) | 280.680 | 31.550 |
| JUN | PEAK (KBTU) | 917.475 | 771.073 |
| | DY/HR | 10/16 | 22/ 7 |
| | TOTAL (MBTU) | 309.492 | 22.276 |
| JUL | PEAK (KBTU) | 1017.740 | 109.737 |
| | DY/HR | 25/14 | 21/ 8 |
| | TOTAL (MBTU) | 325.402 | 28.002 |
| AUG | PEAK (KBTU) | 996.506 | 657.214 |
| | DY/HR | 31/15 | 25/ 7 |
| | TOTAL (MBTU) | 276.169 | 37.253 |
| SEP | PEAK (KBTU) | 944.906 | 1134.212 |
| | DY/HR | 2/12 | 30/ 7 |
| | TOTAL (MBTU) | 244.833 | 190.101 |
| OCT | PEAK (KBTU) | 657.322 | 1963.598 |
| | DY/HR | 13/16 | 28/ 7 |
| | TOTAL (MBTU) | 246.681 | 500.931 |
| NOV | PEAK (KBTU) | 565.814 | 2219.146 |
| | DY/HR | 30/19 | 23/ 7 |
| | TOTAL (MBTU) | 267.052 | 851.103 |
| DEC | PEAK (KBTU) | 565.814 | 2866.880 |
| | DY/HR | 30/19 | 21/ 7 |
| | ONE YEAR | 3217.787 | 4508.354 |
| | USE/PEAK | 1017.740 | 3400.547 |

ENTECH ENGINEERING
READING, PA 19603
REPORT- PS-D PLANT LOADS SATISFIED

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
FT. GEORGE G. MEADE

DOE-2.1D 1/26/1996 10:45:25 PDL RUN 1
BUILDING 2490 - NEW CONDITIONS
WEATHER FILE- BALTIMORE, MD

| HEATING LOADS | MBTU SUPPLIED | PCT OF TOTAL LOAD |
|---------------------|---------------|-------------------|
| ----- | ----- | ----- |
| HW-BOILER | 2947.7 | 100.0 |
| | ===== | ===== |
| LOAD SATISFIED | 2947.7 | 100.0 |
| TOTAL LOAD ON PLANT | 2947.7 | |
| | | |
| COOLING LOADS | MBTU SUPPLIED | PCT OF TOTAL LOAD |
| ----- | ----- | ----- |
| OPEN-CENT-CHLR | 1366.1 | 100.0 |
| | ===== | ===== |
| LOAD SATISFIED | 1366.1 | 100.0 |
| TOTAL LOAD ON PLANT | 1366.1 | |
| | | |
| ELECTRICAL LOADS | MBTU SUPPLIED | PCT OF TOTAL LOAD |
| ----- | ----- | ----- |
| ELECTRICITY | 3217.8 | 100.0 |
| | ===== | ===== |
| LOAD SATISFIED | 3217.8 | 100.0 |
| TOTAL LOAD ON PLANT | 3217.8 | |

TOWER ABOVE DESIGN TEMPERATURE OF 85.F 4 HOURS
MAXIMUM TOWER EXIT TEMPERATURE = 86.F

ENTECH ENGINEERING
READING, PA 19603
REPORT- PS-D PLANT LOADS SATISFIED

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
FT. GEORGE G. MEADE

DOE-2.1D 1/26/1996 10:45:25 PDL RUN 1
BUILDING 2490 - NEW CONDITIONS
WEATHER FILE- BALTIMORE, MD

----- (CONTINUED) -----

SUMMARY OF LOADS MET

| TYPE OF LOAD | TOTAL LOAD (MBTU) | LOAD SATISFIED (MBTU) | TOTAL OVERLOAD (MBTU) | PEAK OVERLOAD (MBTU) | HOURS OVERLOADED |
|------------------|-------------------------|-----------------------------|-----------------------------|----------------------------|---------------------|
| HEATING LOADS | 2947.7 | 2947.7 | 0.000 | 0.000 | 0 |
| COOLING LOADS | 1366.1 | 1366.1 | 0.000 | 0.000 | 0 |
| ELECTRICAL LOADS | 3217.8 | 3217.8 | 0.000 | 0.000 | 0 |

ENTECH ENGINEERING
 READING, PA 19603
 REPORT- PS-H EQUIPMENT USE STATISTICS

EZDOR - ELITE SOFTWARE DEVELOPMENT INC
 FT. GEORGE G. MEADE

DOB-2.1D 1/26/1996 10:45:25 PDL RUN 1
 BUILDING 2490 - NEW CONDITIONS
 WEATHER FILE- BALTIMORE, MD

| EQUIPMENT | AVG | MAX | MON | | ----- | | ----- | | ----- | | ----- | |
|----------------|---------------|----------------|-----|-------|----------------|-------------|----------------|-------------|----------------|-------------|----------------|-------------|
| | OPER RATIO | LOAD (MBTU) | DAY | HR | SIZE (MBTU) | OPER HRS | SIZE (MBTU) | OPER HRS | SIZE (MBTU) | OPER HRS | SIZE (MBTU) | OPER HRS |
| HW-BOILER | 0.124 | 2.720 | 2 | 3 7 | 2.720 | 8760 | | | | | | |
| OPEN-CENT-CHLR | 0.097 | 2.261 | 7 | 25 14 | 1.600 | 8840 | | | | | | |
| COOLING-TWR | 0.062 | 2.665 | 7 | 25 14 | 1.291 | 21287 | | | | | | |

ENTECH ENGINEERING
READING, PA 19603
REPORT- PS-I EQUIPMENT LIFE CYCLE COSTS

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
FT. GEORGE G. MEADE

DOB-2.1D 1/26/1996 10:45:25 PDL RUN 1
BUILDING 2490 - NEW CONDITIONS
WEATHER FILE- BALTIMORE, MD

E Q U I P M E N T T O T A L S

| | | | |
|-----------------------|-------|-------|-------|
| HW-BOILER | 95.9 | | |
| NOMINAL SIZE (MBTU) | | 2.720 | |
| NUMBER INSTALLED | | | 1 |
| FIRST COST (K\$) | 69.4 | | 69.4 |
| ANNUAL COST (K\$) | 1.1 | | 1.1 |
| CYCLICAL COST (K\$) | 25.5 | | 25.5 |
| -----TOTAL----- (K\$) | | | 95.9 |
| OPEN-CENT-CHLR | 138.0 | | |
| NOMINAL SIZE (MBTU) | | 1.600 | |
| NUMBER INSTALLED | | | 2 |
| FIRST COST (K\$) | 93.3 | | 93.3 |
| ANNUAL COST (K\$) | 15.2 | | 15.2 |
| CYCLICAL COST (K\$) | 29.5 | | 29.5 |
| -----TOTAL----- (K\$) | | | 138.0 |
| COOLING-TWR | 267.2 | | |
| NOMINAL SIZE (MBTU) | | 1.291 | |
| NUMBER INSTALLED | | | 3 |
| FIRST COST (K\$) | 52.5 | | 52.5 |
| ANNUAL COST (K\$) | 104.6 | | 104.6 |
| CYCLICAL COST (K\$) | 110.1 | | 110.1 |
| -----TOTAL----- (K\$) | | | 267.2 |
| EQUIPMENT TOTAL | 501.2 | | |

| ENERGY TYPE | ELECTRICITY | FUEL-OIL |
|-----------------|-------------|----------|
| IN SITE MBTU - | | |
| CATEGORY OF USE | | |
| SPACE HEAT | 201.24 | 4508.40 |
| SPACE COOL | 655.11 | 0.00 |
| HVAC AUX | 1184.65 | 0.00 |
| DOM HOT WTR | 0.00 | 0.00 |
| AUX SOLAR | 0.00 | 0.00 |
| LIGHTS | 890.93 | 0.00 |
| VERT TRANS | 0.00 | 0.00 |
| MISC EQUIP | 285.98 | 0.00 |
| | ----- | ----- |
| TOTAL | 3217.90 | 4508.40 |

TOTAL SITE ENERGY 7726.14 MBTU 217.6 KBTU/SQFT-YR GROSS-AREA 217.6 KBTU/SQFT-YR NET-AREA
 TOTAL SOURCE ENERGY 14672.31 MBTU 413.3 KBTU/SQFT-YR GROSS-AREA 413.3 KBTU/SQFT-YR NET-AREA

PERCENT OF HOURS ANY SYSTEM ZONE OUTSIDE OF THROTTLING RANGE = 0.1
 PERCENT OF HOURS ANY PLANT LOAD NOT SATISFIED = 0.0

NOTE ELECTRICITY AND/OR FUEL USED TO GENERATE ELECTRICITY IS APPORTIONED BASED
 ON THE YEARLY DEMAND. ALL OTHER ENERGY TYPES ARE APPORTIONED HOURLY.

| MMDDHH | HW-BOILE R LOAD BTU/HR | HW-BOILE R ELECTRIC USE BTU/HR | HW-BOILE R FUEL USE BTU/HR | OPEN-CEN T-CHLR LOAD BTU/HR | OPEN-CEN T-CHLR ELECTRIC USE BTU/HR | OPEN-CEN T-CHLR TOWER LOAD BTU/HR | OPEN-CEN T-CHLR CONDENSER FAN ELEC BTU/HR |
|-----------------------|---------------------------------|--------------------------------------------|----------------------------------------|--------------------------------------|-------------------------------------------------|-----------------------------------------------|-------------------------------------------------------|
| | ----(1) | ----(3) | ----(4) | ----(1) | ----(3) | ----(5) | ----(18) |
| MONTHLY SUMMARY (JAN) | | | | | | | |
| MN | 138519. | 12190. | 226359. | 44355. | 19794. | 62169. | 0. |
| MX | 2683342. | 59850. | 3361637. | 44355. | 19794. | 62169. | 0. |
| SM | 660081664. | 38690272. | 974679040. | 33000010. | 14726738. | 46254104. | 0. |
| AV | 887207. | 52003. | 1310053. | 44355. | 19794. | 62169. | 0. |
| MONTHLY SUMMARY (FEB) | | | | | | | |
| MN | 68286. | 6009. | 111588. | 44355. | 19794. | 62169. | 0. |
| MX | 2720438. | 59850. | 3400547. | 44355. | 19794. | 62169. | 0. |
| SM | 520061312. | 32870258. | 781102784. | 29806462. | 13301570. | 41777900. | 0. |
| AV | 773901. | 48914. | 1162355. | 44355. | 19794. | 62169. | 0. |
| MONTHLY SUMMARY (MAR) | | | | | | | |
| MN | 18005. | 1584. | 29422. | 44355. | 19794. | 62169. | 0. |
| MX | 1843754. | 59850. | 2454148. | 44355. | 20156. | 62495. | 0. |
| SM | 403602976. | 29388986. | 627545600. | 33000010. | 14727100. | 46254432. | 0. |
| AV | 542477. | 39501. | 843475. | 44355. | 19794. | 62170. | 0. |
| MONTHLY SUMMARY (APR) | | | | | | | |
| MN | 18005. | 1584. | 29422. | 44355. | 19794. | 62169. | 0. |
| MX | 1619041. | 59850. | 2202541. | 116336. | 53807. | 164762. | 0. |
| SM | 211038896. | 16670551. | 334964096. | 32388486. | 14472435. | 45413704. | 0. |
| AV | 293110. | 23154. | 465228. | 44984. | 20101. | 63075. | 0. |
| MONTHLY SUMMARY (MAY) | | | | | | | |
| MN | 18005. | 1584. | 29422. | 44355. | 19794. | 62169. | 0. |
| MX | 1234099. | 59850. | 1762971. | 491776. | 107279. | 588327. | 0. |
| SM | 79880432. | 6699001. | 128847272. | 43176564. | 17591790. | 59009200. | 0. |
| AV | 107366. | 9004. | 173182. | 58033. | 23645. | 79313. | 0. |
| MONTHLY SUMMARY (JUN) | | | | | | | |
| MN | 18005. | 1584. | 29422. | 44355. | 19794. | 62169. | 0. |
| MX | 471852. | 41523. | 771073. | 1822143. | 348607. | 2131598. | 0. |
| SM | 19307008. | 1699017. | 31550346. | 191789744. | 47886880. | 234887936. | 0. |
| AV | 26815. | 2360. | 43820. | 266375. | 66510. | 326233. | 0. |
| MONTHLY SUMMARY (JUL) | | | | | | | |
| MN | 18005. | 1584. | 29422. | 44355. | 19794. | 62169. | 0. |
| MX | 67153. | 5909. | 109737. | 2260683. | 448872. | 2664668. | 0. |
| SM | 13631887. | 1199606. | 22276414. | 329119904. | 75790704. | 397331424. | 0. |
| AV | 18322. | 1612. | 29941. | 442365. | 101869. | 534048. | 0. |

| | HW-BOILE R LOAD BTU/HR ---- (1) | HW-BOILE R ELECTRIC USE BTU/HR ---- (3) | HW-BOILE R FUEL USE BTU/HR ---- (4) | OPEN-CEN T-CHLR LOAD BTU/HR ---- (1) | OPEN-CEN T-CHLR ELECTRIC USE BTU/HR ---- (3) | OPEN-CEN T-CHLR TOWER LOAD BTU/HR ---- (5) | OPEN-CEN T-CHLR CONDENSER FAN ELEC BTU/HR ---- (18) |
|-----------------------|-----------------------------------------------|----------------------------------------------------------|------------------------------------------------------|----------------------------------------------------|---------------------------------------------------------------|-------------------------------------------------------------|--------------------------------------------------------------------|
| MONTHLY SUMMARY (AUG) | | | | | | | |
| MN | 18005. | 1584. | 29422. | 44355. | 19794. | 62169. | 0. |
| MX | 402177. | 35392. | 657214. | 2181116. | 427638. | 2565991. | 0. |
| SM | 17135510. | 1507925. | 28001820. | 357942432. | 77757688. | 427924384. | 0. |
| AV | 23032. | 2027. | 37637. | 481105. | 104513. | 575167. | 0. |
| MONTHLY SUMMARY (SEP) | | | | | | | |
| MN | 18005. | 1584. | 29422. | 44355. | 19794. | 62169. | 0. |
| MX | 699194. | 59850. | 1134212. | 1961841. | 376038. | 2297469. | 0. |
| SM | 22805064. | 2004054. | 37252756. | 203361312. | 49159604. | 247605008. | 0. |
| AV | 31674. | 2783. | 51740. | 282446. | 68277. | 343896. | 0. |
| MONTHLY SUMMARY (OCT) | | | | | | | |
| MN | 18005. | 1584. | 29422. | 44355. | 19794. | 62169. | 0. |
| MX | 1408621. | 59850. | 1963598. | 718620. | 131709. | 837159. | 0. |
| SM | 118433264. | 9756237. | 190100960. | 47466348. | 18418558. | 64043072. | 0. |
| AV | 159185. | 13113. | 255512. | 63799. | 24756. | 86079. | 0. |
| MONTHLY SUMMARY (NOV) | | | | | | | |
| MN | 18005. | 1584. | 29422. | 44355. | 19794. | 62169. | 0. |
| MX | 1633770. | 59850. | 2219146. | 44355. | 22662. | 64751. | 0. |
| SM | 319214144. | 24071954. | 500931040. | 31935494. | 14338060. | 44839776. | 0. |
| AV | 443353. | 33433. | 695738. | 44355. | 19914. | 62277. | 0. |
| MONTHLY SUMMARY (DEC) | | | | | | | |
| MN | 106545. | 9376. | 174110. | 44355. | 19794. | 62169. | 0. |
| MX | 2219723. | 59850. | 2866880. | 44355. | 19794. | 62169. | 0. |
| SM | 562339328. | 36683128. | 851103040. | 33000010. | 14726738. | 46254104. | 0. |
| AV | 755832. | 49305. | 1143956. | 44355. | 19794. | 62169. | 0. |
| YEARLY SUMMARY | | | | | | | |
| MN | 18005. | 1584. | 29422. | 44355. | 19794. | 62169. | 0. |
| MX | 2720438. | 59850. | 3400547. | 2260683. | 448872. | 2664668. | 0. |
| SM | 2947531520. | 201240992. | 4508355584. | 1365986816. | 372897888. | 1701595008. | 0. |
| AV | 336476. | 22973. | 514652. | 155935. | 42568. | 194246. | 0. |

ATTACHMENT SECTION 8.2B

BUILDINGS 2501 TO 3000

FT. MEADE, MARYLAND

Building: 2501

Square feet 14,754

| Exterior Wall | |
|----------------------|--------------|
| Components | R-Value |
| Outside Surface | 0.17 |
| Vinyl Siding | 0.61 |
| 1" Insulation | 6.00 |
| Wood Siding | 0.93 |
| Air Space | 1.10 |
| Gyp. Board | 0.56 |
| Inside Surface | 0.68 |
| Total R-Value | 10.05 |
| Total U-Value | 0.10 |

| Exterior Roof | |
|-------------------------|--------------|
| Components | R-Value |
| Outside Surface | 0.17 |
| Asphalt Shingles | 0.44 |
| Wood | 0.93 |
| 3-1/2" Batt Insulation | 11.00 |
| Gyp. Board | 0.56 |
| Air Space | 1.10 |
| Acoustical Tile Ceiling | 1.89 |
| Inside Surface | 0.61 |
| Total R-Value | 16.70 |
| Total U-Value | 0.06 |

| Calculated Total Area | |
|------------------------------|-------------|
| No. of Floors | 1 |
| Avg. Floor to Floor Height | 12 |
| No. of Basement Levels | 0 |
| Gross Floor Area | 14754 |
| Roof Area | 14754 |
| Estimated Infiltration (cfm) | 2000 |
| Gross Wall Area | 8340 |
| Door Area | 211 |
| Gross Window Area | 544 |
| Other | |
| Net Wall Area | 7585 |

| Window and Door | |
|-----------------------------|---------|
| | U-Value |
| Window Single Pane W/Storm | 0.60 |
| Window Single Pane Wo/Storm | |
| Window Double Pane | |
| Skylight | |
| Glass Block | |
| Other | |
| Door Type 1 | 1.00 |
| Door Type 2 | |
| Door Type 3 | |

$$AoUo = (7585 \cdot 0.1) + (14754 \cdot 0.06) + (211 \cdot 1.0) + (544 \cdot 0.6) = 2181$$

**FT. MEADE, MARYLAND
EQUIPMENT SCHEDULE**

BUILDING NO. 2501

Page 1 of 1

| EQUIPMENT | SYSTEM NUMBER | | | | | | | |
|------------------------------|----------------------------------|-------|------|-------|-----------|-----------|---|---|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| Equipment Name | AC-1 | AC-2 | AC-3 | AC-4 | Furnace-1 | Furnace-2 | | |
| COOLING: | | | | | | | | |
| Type of Cooling | 1 | 1 | 1 | 1 | | | | |
| Air Side | 1 | 1 | 1 | 1 | | | | |
| Location in Building | | | | | | | | |
| Area Sq. Feet | 2,112 | 1,100 | 945 | 8,000 | 4,412 | 8,945 | | |
| Supply CFM | 2,000 | 800 | 800 | 3,000 | 8,180 | 18,200 | | |
| Supply Fan HP | 0.5 | 0.5 | 0.5 | 1.5 | 3 | 5 | | |
| O.A. CFM or % | 0% | 0% | 0% | 0% | 0% | 0% | | |
| Return CFM | | | | | | | | |
| Return Fan HP | | | | | | | | |
| Chiller Tonnage | | | | | | | | |
| Tower or Condenser Fan HP | | | | | | | | |
| Condenser Pump HP | | | | | | | | |
| Chilled Water Pump HP | | | | | | | | |
| HEATING: | | | | | | | | |
| Type of Heating | | | | | 4 | 4 | | |
| Source | | | | | 1 | 1 | | |
| MBTUH | | | | | 562 | 1250 | | |
| Hot Water Pump HP | | | | | | | | |
| Condensate Pump HP | | | | | | | | |
| ADDITIONAL: | | | | | | | | |
| Aux. HP Cooling | | | | | | | | |
| Aux. HP Heating | | | | | | | | |
| Operating Schedule Hrs./Week | | | | | | | | |
| Type of Cooling | Type of Heating | | | | | | | |
| (1) Air Cooled DX | (1) Boiler Hot Water | | | | | | | |
| (2) Water Cooled DX | (2) Boiler Steam | | | | | | | |
| (3) Air Cooled Chiller | (3) Steam to Hot Water Converter | | | | | | | |
| Air Side | Heating Source | | | | | | | |
| (1) Single Zone | (1) Natural Gas | | | | | | | |
| (2) Multi-Zone | (2) Central Plant Steam | | | | | | | |
| (3) VAV | (3) Central Plant Hot Water | | | | | | | |
| | (4) Furnace | | | | | | | |
| | (4) Oil | | | | | | | |
| | (5) Electric | | | | | | | |

EMCS Annual Energy Savings Summary Report

```

=====
Base: FTMEADE
Building: 2501
Case: 1
Description:
-----
Fuel Type: Natural gas (methane)
Heating Value: 1,031      Btu/cf
=====
    
```

Caution

```

=====
The ESA program makes no attempt to exclude incompatible strategies.
It is the user's responsibility to select all appropriate strategies.
=====
    
```

Annual Energy Savings Table for Single Zone DX-A/C

```

=====
Description: AC-1
=====
Strategy                MBtu/yr      kWh/yr      kW   mh/yr
=====
Scheduled Start/Stop    0.000        365         0.0   0
Optimum Start/Stop     0.000         0           0.0   0
Duty Cycling           0.000        349         0.0   0
Demand Limiting        0.000         0           0.0746000  0
Run Time Recording     0.000         0           0.0   2
Safety Alarm           0.000         0           0.0   2
=====
Totals                  0.000        715         0.0746000  4
MBtu/yr                kWh/yr      kW   mh/yr
=====
    
```


Annual Energy Savings Table for Single Zone DX-A/C

| Description: AC-2 | | | | |
|----------------------|---------|--------|-----------|-------|
| Strategy | MBtu/yr | kWh/yr | kW | mh/yr |
| Scheduled Start/Stop | 0.000 | 343 | 0.0 | 0 |
| Optimum Start/Stop | 0.000 | 0 | 0.0 | 0 |
| Duty Cycling | 0.000 | 349 | 0.0 | 0 |
| Demand Limiting | 0.000 | 0 | 0.0746000 | 0 |
| Run Time Recording | 0.000 | 0 | 0.0 | 2 |
| Safety Alarm | 0.000 | 0 | 0.0 | 2 |
| Totals | 0.000 | 692 | 0.0746000 | 4 |
| | MBtu/yr | kWh/yr | kW | mh/yr |

Annual Energy Savings Table for Single Zone DX-A/C

| Description: AC-3 | | | | |
|----------------------|---------|--------|-----------|-------|
| Strategy | MBtu/yr | kWh/yr | kW | mh/yr |
| Scheduled Start/Stop | 0.000 | 340 | 0.0 | 0 |
| Optimum Start/Stop | 0.000 | 0 | 0.0 | 0 |
| Duty Cycling | 0.000 | 349 | 0.0 | 0 |
| Demand Limiting | 0.000 | 0 | 0.0746000 | 0 |
| Run Time Recording | 0.000 | 0 | 0.0 | 2 |
| Safety Alarm | 0.000 | 0 | 0.0 | 2 |
| Totals | 0.000 | 689 | 0.0746000 | 4 |
| | MBtu/yr | kWh/yr | kW | mh/yr |

Annual Energy Savings Table for Single Zone DX-A/C

```

=====
Description: AC-4
=====
Strategy                MBtu/yr      kWh/yr      kW   mh/yr
=====
    Scheduled Start/Stop      0.000      1,133      0.0    0
    Optimum Start/Stop       0.000        0      0.0    0
    Duty Cycling              0.000      1,047      0.0    0
    Demand Limiting          0.000        0      0.2    0
    Run Time Recording        0.000        0      0.0    2
    Safety Alarm              0.000        0      0.0    2
=====
                    Totals      0.000      2,181      0.2    4
                    MBtu/yr      kWh/yr      kW   mh/yr
=====
    
```

Annual Energy Savings Table for Direct Fired Furnace

```

=====
Description: F-1
=====
Strategy                MBtu/yr      kWh/yr      kW   mh/yr
=====
    Day/Night Setback       19.357        0      0.0    0
    Run Time Recording        0.000        0      0.0    2
    Safety Alarm              0.000        0      0.0    2
-----
    Subtotals                19.357        0      0.0    4
    Heating Value /         1,031 Btu/cf
-----
                    Totals      18,775        0      0.0    4
                    cf /yr      kWh/yr      kW   mh/yr
=====
    
```

Annual Energy Savings Table for Direct Fired Furnace

| Description: F-2 | | | | |
|--------------------|------------------|-------------|-----------|------------|
| Strategy | MBtu/yr | kWh/yr | kW | mh/yr |
| Day/Night Setback | 39.245 | 0 | 0.0 | 0 |
| Run Time Recording | 0.000 | 0 | 0.0 | 2 |
| Safety Alarm | 0.000 | 0 | 0.0 | 2 |
| Subtotals | 39.245 | 0 | 0.0 | 4 |
| Heating Value / | 1,031 Btu/cf | | | |
| Totals | 38,065 cf /yr | 0 kWh/yr | 0.0 kW | 4 mh/yr |

Annual Energy Savings Table for Lighting Control

| Description: Lighting | | | | |
|-----------------------|------------------|------------------|-----------|------------|
| Strategy | MBtu/yr | kWh/yr | kW | mh/yr |
| Lighting Control | 0.000 | 37,440 | 0.0 | 0 |
| Run Time Recording | 0.000 | 0 | 0.0 | 0 |
| Safety Alarm | 0.000 | 0 | 0.0 | 0 |
| Totals | 0.000 MBtu/yr | 37,440 kWh/yr | 0.0 kW | 0 mh/yr |

EMCS Annual Energy Savings for Building 2501

| Description | Value | Units |
|-----------------------------|--------|--------|
| Natural gas (methane) | 56,841 | cf /yr |
| Electrical Energy | 41,716 | kWh/yr |
| Electrical Demand Reduction | 0.4 | kW |
| Labor Savings | 24 | mh/yr |

FT. MEADE, MARYLAND

Building: 2786

Square feet 118,000

| Exterior Wall | |
|---------------------|-------------|
| Components | R-Value |
| Outside Surface | 0.17 |
| Brick | 0.44 |
| Concrete Block | 1.72 |
| 1" Rigid Insulation | 6.00 |
| Gyp Board | 0.56 |
| Inside Surface | 0.68 |
| | |
| | |
| Total R-Value | 9.57 |
| Total U-Value | 0.10 |

| Exterior Roof | |
|---------------------|--------------|
| Components | R-Value |
| Outside Surface | 0.17 |
| Built-up Roof | 0.33 |
| Metal Deck | 0.00 |
| 2" Rigid Insulation | 12.00 |
| Air Space | 1.11 |
| Acoustical Tile Clg | 1.89 |
| Inside Surface | 0.61 |
| | |
| Total R-Value | 16.11 |
| Total U-Value | 0.06 |

| Calculated Total Area | |
|------------------------------|--------|
| No. of Floors | 1 |
| Avg. Floor to Floor Height | 20 |
| No. of Basement Levels | |
| Gross Floor Area | 118000 |
| Roof Area | 108300 |
| Estimated Infiltration (cfm) | 10800 |
| Gross Wall Area | 29400 |
| Door Area | 1150 |
| Gross Window Area | 1600 |
| Other | |
| Net Wall Area | 26650 |

| Window and Door | |
|-----------------------------|---------|
| | U-Value |
| Window Single Pane W/Storm | |
| Window Single Pane Wo/Storm | |
| Window Double Pane | 0.55 |
| Skylight | |
| Glass Block | |
| Other | |
| Door Type 1 | 1.00 |
| Door Type 2 | |
| Door Type 3 | |



EMCS Annual Energy Savings Summary Report

```

=====
Base: FTMEADE
Building: 2786
Case: 1
Description:
=====

```

```

=====
Fuel Type: Natural gas (methane)
Heating Value: 1,031 Btu/cf
=====

```

Caution

```

=====
The ESA program makes no attempt to exclude incompatible strategies.
It is the user's responsibility to select all appropriate strategies.
=====

```

Annual Energy Savings Table for Hot Water Boiler

```

=====
Description: BOILER
=====

```

| Strategy | MBtu/yr | kWh/yr | kW | mh/yr |
|--------------------|-------------------|-------------|-----------|------------|
| Hot Water OA Reset | 290.625 | 0 | 0.0 | 0 |
| Subtotals | 290.625 | 0 | 0.0 | 0 |
| Heating Value / | 1,031 Btu/cf | | | |
| Totals | 281,887 cf /yr | 0 kWh/yr | 0.0 kW | 0 mh/yr |

EMCS Annual Energy Savings for Building 2786

| Description | Value | Units |
|-----------------------------|---------|--------|
| Natural gas (methane) | 281,887 | cf /yr |
| Electrical Energy | 0 | kWh/yr |
| Electrical Demand Reduction | 0.0 | kW |
| Labor Savings | 0 | mh/yr |

**UMCS FEASIBILITY STUDY
FORT MEADE
BUILDING 2786 - COMMISSARY
DOE ENERGY SAVINGS SUMMARY**

| | Space Heat | | Space Cool | | HVAC Aux | | Lights | | Misc Equip | | TOTAL | | TOTAL | |
|---------------------------------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|--------------------|--------------------|--|
| | Electricity mmBtu | Natural Gas mmBtu | Electricity mmBtu | Electricity mmBtu | Electricity mmBtu | Electricity mmBtu | Electricity mmBtu | Electricity mmBtu | Electricity mmBtu | Electricity mmBtu | Natural Gas mmBtu | Electricity Kwh | Natural Gas MCF | |
| Existing | 214.3 | 4,223.5 | 617.1 | 1,667.2 | 2,481.2 | 842.0 | 5,821.8 | 4,223.5 | 1,705,772 | 4,096.5 | | | | |
| New w/Vent/Recirc | 183.9 | 3,508.4 | 627.3 | 1,667.2 | 2,481.2 | 842.0 | 5,801.5 | 3,508.4 | 1,699,827 | 3,402.9 | | | | |
| Vent/Recirc Savings | | | | | | | 20.3 | 715.1 | 5,945 | 693.5 | | | | |
| New w/Night Setback and Vent/Recirc | 172.2 | 3,386.9 | 562.6 | 1,142.6 | 2,481.2 | 842.0 | 5,200.5 | 3,386.9 | 1,523,745 | 3,285.1 | | | | |
| Night Setback Savings | | | | | | | 601.0 | 121.5 | 176,083 | 117.9 | | | | |
| New w/Night Setback & Vent/Recirc & Economizer | 172.2 | 3,386.6 | 555.0 | 1,142.6 | 2,481.2 | 842.0 | 5,192.9 | 3,386.6 | 1,521,509 | 3,284.8 | | | | |
| Economizer Savings | | | | | | | 7.6 | 0.3 | 2,236 | 0.3 | | | | |

| MMDDHH | AHU-1 | AHU-1 | AHU-1 | AHU-1 | AHU-1 | AHU-2 | AHU-2 | AHU-2 |
|-----------------------|-------------------------------|---------------------------|-------------------------------|-------------------------------|--------------------------|-------------------------------|---------------------------|--------------------------|
| | TOT HTG COIL PWR BTU/HR | COOLING ELECTRIC KW | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR | SUPPLY ELECTRIC KW | TOT HTG COIL PWR BTU/HR | COOLING ELECTRIC KW | SUPPLY ELECTRIC KW |
| | ---- (5) | ---- (47) | ---- (70) | ---- (78) | ---- (49) | ---- (5) | ---- (47) | ---- (49) |
| MONTHLY SUMMARY (JAN) | | | | | | | | |
| MN | -883899. | 0.000 | 1402355. | -1251263. | 19.612 | -175680. | 0.000 | 4.171 |
| MX | 0. | 0.000 | 1807260. | -1251263. | 19.612 | 0. | 0.000 | 4.171 |
| SM | -246215776. | 0.000 | 1197676800. | -930940288. | 14591.033 | -43375312. | 0.000 | 3103.449 |
| AV | -330935. | 0.000 | 1609781. | -1251264. | 19.612 | -58300. | 0.000 | 4.171 |
| MONTHLY SUMMARY (FEB) | | | | | | | | |
| MN | -932286. | 0.000 | 1381671. | -1251263. | 19.612 | -174240. | 0.000 | 4.171 |
| MX | 0. | 0.000 | 1807260. | -1251263. | 19.612 | 0. | 0.000 | 4.171 |
| SM | -201640272. | 0.000 | 1062581504. | -840849280. | 13178.997 | -35704256. | 0.000 | 2803.115 |
| AV | -300060. | 0.000 | 1581223. | -1251264. | 19.612 | -53131. | 0.000 | 4.171 |
| MONTHLY SUMMARY (MAR) | | | | | | | | |
| MN | -715932. | 0.000 | 1294808. | -1251263. | 19.612 | -134134. | 0.000 | 4.171 |
| MX | 0. | 0.000 | 1677148. | -1251263. | 19.612 | 0. | 0.000 | 4.171 |
| SM | -109003552. | 0.000 | 1132495360. | -930940288. | 14591.033 | -17013740. | 0.000 | 3103.449 |
| AV | -146510. | 0.000 | 1522171. | -1251264. | 19.612 | -22868. | 0.000 | 4.171 |
| MONTHLY SUMMARY (APR) | | | | | | | | |
| MN | -512554. | 0.000 | 1307878. | -1251263. | 19.612 | -99007. | 0.000 | 4.171 |
| MX | 0. | 0.000 | 1630112. | -1251263. | 19.612 | 0. | 0.000 | 4.171 |
| SM | -31545044. | 0.000 | 1055626048. | -900909952. | 14120.354 | -4167160. | 0.000 | 3003.337 |
| AV | -43813. | 0.000 | 1466147. | -1251264. | 19.612 | -5788. | 0.000 | 4.171 |
| MONTHLY SUMMARY (MAY) | | | | | | | | |
| MN | 0. | 0.000 | 1218618. | 0. | 19.612 | 0. | 0.000 | 4.171 |
| MX | 0. | 72.685 | 1576448. | 0. | 19.612 | 0. | 15.826 | 4.171 |
| SM | 0. | 11985.001 | 1044280064. | 0. | 14591.033 | 0. | 2996.708 | 3103.449 |
| AV | 0. | 16.109 | 1403602. | 0. | 19.612 | 0. | 4.028 | 4.171 |
| MONTHLY SUMMARY (JUN) | | | | | | | | |
| MN | 0. | 0.000 | 1212441. | 0. | 19.612 | 0. | 0.000 | 4.171 |
| MX | 0. | 125.893 | 1500214. | 0. | 19.612 | 0. | 26.827 | 4.171 |
| SM | 0. | 29732.756 | 989371648. | 0. | 14120.354 | 0. | 6885.199 | 3003.337 |
| AV | 0. | 41.295 | 1374127. | 0. | 19.612 | 0. | 9.563 | 4.171 |
| MONTHLY SUMMARY (JUL) | | | | | | | | |
| MN | 0. | 0.000 | 1237306. | 0. | 19.612 | 0. | 0.000 | 4.171 |
| MX | 0. | 129.395 | 1509379. | 0. | 19.612 | 0. | 27.624 | 4.171 |
| SM | 0. | 39339.457 | 1030672448. | 0. | 14591.033 | 0. | 8909.229 | 3103.449 |
| AV | 0. | 52.876 | 1385312. | 0. | 19.612 | 0. | 11.975 | 4.171 |

| | AHU-1 | AHU-1 | AHU-1 | AHU-1 | AHU-1 | AHU-2 | AHU-2 | AHU-2 |
|-----------------------|-------------------------------|---------------------------|-------------------------------|-------------------------------|--------------------------|-------------------------------|---------------------------|--------------------------|
| | TOT HTG COIL PWR BTU/HR | COOLING ELECTRIC KW | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR | SUPPLY ELECTRIC KW | TOT HTG COIL PWR BTU/HR | COOLING ELECTRIC KW | SUPPLY ELECTRIC KW |
| | ---- (5) | ----(47) | ----(70) | ----(78) | ----(49) | ---- (5) | ----(47) | ----(49) |
| MONTHLY SUMMARY (AUG) | | | | | | | | |
| MN | 0. | 0.000 | 1235602. | 0. | 19.612 | 0. | 0.000 | 4.171 |
| MX | 0. | 128.600 | 1509836. | 0. | 19.612 | 0. | 27.118 | 4.171 |
| SM | 0. | 36250.195 | 1033673536. | 0. | 14591.033 | 0. | 8309.295 | 3103.449 |
| AV | 0. | 48.723 | 1389346. | 0. | 19.612 | 0. | 11.168 | 4.171 |
| MONTHLY SUMMARY (SEP) | | | | | | | | |
| MN | 0. | 0.000 | 1242711. | 0. | 19.612 | 0. | 0.000 | 4.171 |
| MX | 0. | 108.450 | 1522348. | 0. | 19.612 | 0. | 23.470 | 4.171 |
| SM | 0. | 22050.830 | 996909952. | 0. | 14120.354 | 0. | 5203.727 | 3003.337 |
| AV | 0. | 30.626 | 1384597. | 0. | 19.612 | 0. | 7.227 | 4.171 |
| MONTHLY SUMMARY (OCT) | | | | | | | | |
| MN | -541624. | 0.000 | 1256234. | -1251263. | 19.612 | -87899. | 0.000 | 4.171 |
| MX | 0. | 61.329 | 1599287. | 0. | 19.612 | 0. | 13.149 | 4.171 |
| SM | -36558256. | 7224.015 | 1063023104. | -480485248. | 14591.033 | -6123826. | 1851.303 | 3103.449 |
| AV | -49137. | 9.710 | 1428795. | -645814. | 19.612 | -8231. | 2.488 | 4.171 |
| MONTHLY SUMMARY (NOV) | | | | | | | | |
| MN | -529171. | 0.000 | 1361226. | -1251263. | 19.612 | -93988. | 0.000 | 4.171 |
| MX | 0. | 0.000 | 1630112. | -1251263. | 19.612 | 0. | 0.000 | 4.171 |
| SM | -88818216. | 0.000 | 1091117056. | -900909952. | 14120.354 | -13137228. | 0.000 | 3003.337 |
| AV | -123359. | 0.000 | 1515440. | -1251264. | 19.612 | -18246. | 0.000 | 4.171 |
| MONTHLY SUMMARY (DEC) | | | | | | | | |
| MN | -775948. | 0.000 | 1381671. | -1251263. | 19.612 | -152186. | 0.000 | 4.171 |
| MX | 0. | 0.000 | 1733234. | -1251263. | 19.612 | 0. | 0.000 | 4.171 |
| SM | -206635168. | 0.000 | 1173463808. | -930940288. | 14591.033 | -34816456. | 0.000 | 3103.449 |
| AV | -277735. | 0.000 | 1577236. | -1251264. | 19.612 | -46796. | 0.000 | 4.171 |
| YEARLY SUMMARY | | | | | | | | |
| MN | -932286. | 0.000 | 1212441. | -1251263. | 19.612 | -175680. | 0.000 | 4.171 |
| MX | 0. | 129.395 | 1807260. | 0. | 19.612 | 0. | 27.624 | 4.171 |
| SM | -920416384. | 146582.266 | 12870892544. | -5915975680. | 171797.641 | -154337984. | 34155.461 | 36540.609 |
| AV | -105070. | 16.733 | 1469280. | -675340. | 19.612 | -17618. | 3.899 | 4.171 |

| MMDDHR | AHU-2 | AHU-2 | AHU-3 | AHU-3 | AHU-3 | UH-1 | UH-1 | UH-1 |
|-----------------------|-------------------------------|-------------------------------|-------------------------------|--------------------------|-------------------------------|-------------------------------|--------------------------|-------------------------------|
| | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | HEATING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | HEATING CAPACITY BTU/HR |
| | ---- (70) | ---- (78) | ---- (5) | ---- (49) | ---- (78) | ---- (5) | ---- (49) | ---- (78) |
| MONTHLY SUMMARY (JAN) | | | | | | | | |
| MN | 296121. | -266138. | -467369. | 30.794 | -440973. | -208683. | 0.000 | 0. |
| MX | 381620. | -266138. | -39499. | 30.794 | -440973. | -21364. | 0.000 | 0. |
| SM | 252905424. | -198006688. | -269767232. | 22911.053 | -328084160. | -71153336. | 0.000 | 0. |
| AV | 339927. | -266138. | -362590. | 30.794 | -440973. | -95636. | 0.000 | 0. |
| MONTHLY SUMMARY (FEB) | | | | | | | | |
| MN | 291753. | -266138. | -507163. | 30.794 | -440973. | -345554. | 0.000 | 0. |
| MX | 381620. | -266138. | -11269. | 30.794 | -440973. | -12269. | 0.000 | 0. |
| SM | 224376704. | -178844752. | -236810224. | 20693.854 | -296334080. | -68100040. | 0.000 | 0. |
| AV | 333894. | -266138. | -352396. | 30.794 | -440973. | -101339. | 0.000 | 0. |
| MONTHLY SUMMARY (MAR) | | | | | | | | |
| MN | 273411. | -266138. | -497235. | 30.794 | -440973. | -231723. | 0.000 | 0. |
| MX | 354146. | -266138. | 0. | 30.794 | -440973. | 0. | 0.000 | 0. |
| SM | 219162960. | -198006688. | -182537216. | 22911.053 | -328084160. | -50751668. | 0.000 | 0. |
| AV | 321456. | -266138. | -245346. | 30.794 | -440973. | -68215. | 0.000 | 0. |
| MONTHLY SUMMARY (APR) | | | | | | | | |
| MN | 276171. | -266138. | -455889. | 30.794 | -440973. | -156506. | 0.000 | 0. |
| MX | 344214. | -266138. | 0. | 30.794 | -440973. | 0. | 0.000 | 0. |
| SM | 223246368. | -191619376. | -78362688. | 22171.986 | -317500800. | -22452656. | 0.000 | 0. |
| AV | 310064. | -266138. | -108837. | 30.794 | -440973. | -31184. | 0.000 | 0. |
| MONTHLY SUMMARY (MAY) | | | | | | | | |
| MN | 257323. | 0. | 0. | 30.794 | 0. | 0. | 0.000 | 0. |
| MX | 332882. | 0. | 0. | 30.794 | 0. | 0. | 0.000 | 0. |
| SM | 220260912. | 0. | 0. | 22911.053 | 0. | 0. | 0.000 | 0. |
| AV | 296050. | 0. | 0. | 30.794 | 0. | 0. | 0.000 | 0. |
| MONTHLY SUMMARY (JUN) | | | | | | | | |
| MN | 256528. | 0. | 0. | 30.794 | 0. | 0. | 0.000 | 0. |
| MX | 313243. | 0. | 0. | 30.794 | 0. | 0. | 0.000 | 0. |
| SM | 208253088. | 0. | 0. | 22171.986 | 0. | 0. | 0.000 | 0. |
| AV | 289240. | 0. | 0. | 30.794 | 0. | 0. | 0.000 | 0. |
| MONTHLY SUMMARY (JUL) | | | | | | | | |
| MN | 261269. | 0. | 0. | 30.794 | 0. | 0. | 0.000 | 0. |
| MX | 318963. | 0. | 0. | 30.794 | 0. | 0. | 0.000 | 0. |
| SM | 216780688. | 0. | 0. | 22911.053 | 0. | 0. | 0.000 | 0. |
| AV | 291372. | 0. | 0. | 30.794 | 0. | 0. | 0.000 | 0. |

| | AHU-2 | AHU-2 | AHU-3 | AHU-3 | AHU-3 | UH-1 | UH-1 | UH-1 |
|-----------------------|-------------------------------|-------------------------------|-------------------------------|--------------------------|-------------------------------|-------------------------------|--------------------------|-------------------------------|
| | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | HEATING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | HEATING CAPACITY BTU/HR |
| | ---- (70) | ---- (78) | ---- (5) | ---- (49) | ---- (78) | ---- (5) | ---- (49) | ---- (78) |
| MONTHLY SUMMARY (AUG) | | | | | | | | |
| MN | 261251. | 0. | 0. | 30.794 | 0. | 0. | 0.000 | 0. |
| MX | 315931. | 0. | 0. | 30.794 | 0. | 0. | 0.000 | 0. |
| SM | 217370912. | 0. | 0. | 22911.053 | 0. | 0. | 0.000 | 0. |
| AV | 292165. | 0. | 0. | 30.794 | 0. | 0. | 0.000 | 0. |
| MONTHLY SUMMARY (SEP) | | | | | | | | |
| MN | 262467. | 0. | 0. | 30.794 | 0. | 0. | 0.000 | 0. |
| MX | 318411. | 0. | 0. | 30.794 | 0. | 0. | 0.000 | 0. |
| SM | 210073792. | 0. | 0. | 22171.986 | 0. | 0. | 0.000 | 0. |
| AV | 291769. | 0. | 0. | 30.794 | 0. | 0. | 0.000 | 0. |
| MONTHLY SUMMARY (OCT) | | | | | | | | |
| MN | 265266. | -266138. | -303667. | 30.794 | -440973. | -182623. | 0.000 | 0. |
| MX | 337705. | 0. | 0. | 30.794 | 0. | 0. | 0.000 | 0. |
| SM | 224329312. | -102197000. | -30225314. | 22911.053 | -169333760. | -9799641. | 0.000 | 0. |
| AV | 301518. | -137362. | -40625. | 30.794 | -227599. | -13172. | 0.000 | 0. |
| MONTHLY SUMMARY (NOV) | | | | | | | | |
| MN | 287436. | -266138. | -454714. | 30.794 | -440973. | -149711. | 0.000 | 0. |
| MX | 344214. | -266138. | 0. | 30.794 | -440973. | 0. | 0.000 | 0. |
| SM | 230499264. | -191619376. | -136063648. | 22171.986 | -317500800. | -35014020. | 0.000 | 0. |
| AV | 320138. | -266138. | -188977. | 30.794 | -440973. | -48631. | 0.000 | 0. |
| MONTHLY SUMMARY (DEC) | | | | | | | | |
| MN | 292009. | -266138. | -478265. | 30.794 | -440973. | -207067. | 0.000 | 0. |
| MX | 365989. | -266138. | -5405. | 30.794 | -440973. | -9586. | 0.000 | 0. |
| SM | 247808336. | -198006688. | -252059968. | 22911.053 | -328084160. | -63802708. | 0.000 | 0. |
| AV | 333076. | -266138. | -338790. | 30.794 | -440973. | -85756. | 0.000 | 0. |
| YEARLY SUMMARY | | | | | | | | |
| MN | 256528. | -266138. | -507163. | 30.794 | -440973. | -345554. | 0.000 | 0. |
| MX | 381620. | 0. | 0. | 30.794 | 0. | 0. | 0.000 | 0. |
| SM | 2715067392. | -1258300544. | -1185826304. | 269759.156 | -2084921856. | -321074080. | 0.000 | 0. |
| AV | 309939. | -143642. | -135368. | 30.794 | -238005. | -36652. | 0.000 | 0. |

| S I T E E N E R G Y | | | | | | | | | | | | | SOURCE |
|---------------------|----------------------------|-------------------------------|------------------------------|-----------------------|----------------------------------|-------------------------------|-------------------------------|-------------------------------|--------------------------------|------------------------------|------------------------------|-------------------------------|---------------------------------|
| MONTH | 2 TOTAL HEAT LOAD | 3 TOTAL COOLING LOAD | 4 TOTAL ELECTR LOAD | 5 RCVRED ENERGY | 6 WASTED RCVRABL ENERGY | 7 FUEL INPUT COOLING | 8 ELEC INPUT COOLING | 9 FUEL INPUT HEATING | 10 ELEC INPUT HEATING | 11 FUEL INPUT ELECT | 12 TOTAL FUEL INPUT | 13 TOTAL SITE ENERGY | 14 TOTAL SOURCE ENERGY |
| JAN | 639.8 | 0.0 | 481.1 140.9E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 1012.8 | 55.0 16.1E | 0.0 | 1012.8 | 1493.9 | 2457.6 |
| FEB | 550.6 | 0.0 | 424.0 124.2E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 867.6 | 46.8 13.7E | 0.0 | 867.6 | 1291.6 | 2140.8 |
| MAR | 368.6 | 0.0 | 464.0 135.9E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 594.0 | 36.0 10.5E | 0.0 | 594.0 | 1058.1 | 1987.5 |
| APR | 145.5 | 0.0 | 431.4 126.3E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 236.7 | 17.6 5.2E | 0.0 | 236.7 | 668.1 | 1532.2 |
| MAY | 0.0 | 0.0 | 468.0 137.1E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 0.0 | 0.0 0.0E | 0.0 | 0.0 | 468.0 | 1405.4 |
| JUN | 0.0 | 0.0 | 538.7 157.8E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 0.0 | 0.0 0.0E | 0.0 | 0.0 | 538.7 | 1617.7 |
| JUL | 0.0 | 0.0 | 581.6 170.3E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 0.0 | 0.0 0.0E | 0.0 | 0.0 | 581.6 | 1746.5 |
| AUG | 0.0 | 0.0 | 579.9 169.8E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 0.0 | 0.0 0.0E | 0.0 | 0.0 | 579.9 | 1741.4 |
| SEP | 0.0 | 0.0 | 497.9 145.8E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 0.0 | 0.0 0.0E | 0.0 | 0.0 | 497.9 | 1495.3 |
| OCT | 87.5 | 0.0 | 458.2 134.2E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 142.9 | 10.3 3.0E | 0.0 | 142.9 | 601.1 | 1518.9 |
| NOV | 282.0 | 0.0 | 425.8 124.7E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 459.5 | 29.5 8.7E | 0.0 | 459.5 | 885.3 | 1738.3 |
| DEC | 566.6 | 0.0 | 471.2 138.0E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 910.0 | 51.9 15.2E | 0.0 | 910.0 | 1381.2 | 2325.0 |
| | 2640.7 | 0.0 | 5821.9 1705.1E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 4223.4 | 247.2 72.4E | 0.0 | 4223.4 | 10045.3 | 21706.6 |

NOTE-- ALL ENTRIES ARE IN MBTU EXCEPT
 ENTRIES FOLLOWED BY E ARE IN MWH (THOUSANDS OF KWH)

ENTRCH ENGINEERING
READING, PA 19603

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
FT. GEORGE G. MEADE

DOB-2.1D 12/28/1995 14:45:54 PDL RUN 1
BUILDING 2786 - COMMISSARY
WEATHER FILE- BALTIMORE, MD

REPORT- PS-B MONTHLY PEAK AND TOTAL ENERGY USE

| MO | UTILITY- | ELECTRICITY | NATURAL-GAS |
|-----|--------------|-------------|-------------|
| | TOTAL (MBTU) | 481.123 | 1012.774 |
| JAN | PEAK (KBTU) | 872.047 | 2462.254 |
| | DY/HR | 17/10 | 17/ 4 |
| | TOTAL (MBTU) | 423.986 | 867.612 |
| FEB | PEAK (KBTU) | 872.892 | 2662.850 |
| | DY/HR | 12/13 | 12/ 6 |
| | TOTAL (MBTU) | 464.031 | 594.035 |
| MAR | PEAK (KBTU) | 872.123 | 2280.533 |
| | DY/HR | 4/10 | 4/ 4 |
| | TOTAL (MBTU) | 431.408 | 236.697 |
| APR | PEAK (KBTU) | 871.708 | 1853.773 |
| | DY/HR | 8/11 | 8/ 2 |
| | TOTAL (MBTU) | 467.986 | 0.000 |
| MAY | PEAK (KBTU) | 1080.173 | 0.000 |
| | DY/HR | 21/17 | 31/ 1 |
| | TOTAL (MBTU) | 538.704 | 0.000 |
| JUN | PEAK (KBTU) | 1299.412 | 0.000 |
| | DY/HR | 10/16 | 30/ 1 |
| | TOTAL (MBTU) | 581.574 | 0.000 |
| JUL | PEAK (KBTU) | 1314.088 | 0.000 |
| | DY/HR | 25/17 | 31/ 1 |
| | TOTAL (MBTU) | 579.889 | 0.000 |
| AUG | PEAK (KBTU) | 1309.648 | 0.000 |
| | DY/HR | 18/17 | 31/ 1 |
| | TOTAL (MBTU) | 497.925 | 0.000 |
| SEP | PEAK (KBTU) | 1227.916 | 0.000 |
| | DY/HR | 1/17 | 30/ 1 |
| | TOTAL (MBTU) | 458.227 | 142.872 |
| OCT | PEAK (KBTU) | 1032.259 | 1752.659 |
| | DY/HR | 13/16 | 16/ 2 |
| | TOTAL (MBTU) | 425.829 | 459.496 |
| NOV | PEAK (KBTU) | 871.664 | 1875.556 |
| | DY/HR | 25/ 7 | 8/ 4 |
| | TOTAL (MBTU) | 471.219 | 909.952 |
| DEC | PEAK (KBTU) | 872.037 | 2336.728 |
| | DY/HR | 6/12 | 22/ 3 |
| | ONE YEAR | 5821.900 | 4223.437 |
| | USE/PEAK | 1314.088 | 2662.850 |

ENVECH ENGINEERING
READING, PA 19603
REPORT- PS-D PLANT LOADS SATISFIED

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
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| HEATING LOADS | MBTU SUPPLIED | PCT OF TOTAL LOAD |
|---------------------|---------------|-------------------|
| ----- | ----- | ----- |
| HW-BOILER | 2640.7 | 100.0 |
| | ----- | ----- |
| LOAD SATISFIED | 2640.7 | 100.0 |
| TOTAL LOAD ON PLANT | 2640.7 | |
| | | |
| ELECTRICAL LOADS | MBTU SUPPLIED | PCT OF TOTAL LOAD |
| ----- | ----- | ----- |
| ELECTRICITY | 5821.9 | 100.0 |
| | ----- | ----- |
| LOAD SATISFIED | 5821.9 | 100.0 |
| TOTAL LOAD ON PLANT | 5821.9 | |

EMTECH ENGINEERING
READING, PA 19603
REPORT- PS-D PLANT LOADS SATISFIED

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
FT. GEORGE G. MEADE

DOE-2.1D 12/28/1995 14:45:54 PDL RUN 1
BUILDING 2786 - COMMISSARY
WEATHER FILE- BALTIMORE, MD
(CONTINUED)

SUMMARY OF LOADS MET

| TYPE OF LOAD | TOTAL LOAD (MBTU) | LOAD SATISFIED (MBTU) | TOTAL OVERLOAD (MBTU) | PEAK OVERLOAD (MBTU) | HOURS OVERLOADED |
|------------------|-------------------------|-----------------------------|-----------------------------|----------------------------|---------------------|
| HEATING LOADS | 2640.7 | 2640.7 | 0.000 | 0.000 | 0 |
| ELECTRICAL LOADS | 5821.9 | 5821.9 | 0.000 | 0.000 | 0 |

ENTECH ENGINEERING
READING, PA 19603
REPORT- PS-H EQUIPMENT USE STATISTICS

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BUILDING 2786 - COMMISSARY
WEATHER FILE- BALTIMORE, MD

| EQUIPMENT | AVG | MAX | MON | | SIZE OPER | | SIZE OPER | | SIZE OPER | | SIZE OPER | |
|-----------|---------------|----------------|-----|----|-----------|-------|-----------|-----|-----------|-----|-----------|-----|
| | OPER RATIO | LOAD (MBTU) | DAY | HR | (MBTU) | HRS | (MBTU) | HRS | (MBTU) | HRS | (MBTU) | HRS |
| HW-BOILER | 0.143 | 1.987 | 2 | 12 | 6 | 3.900 | 4728 | | | | | |

ENTECH ENGINEERING
READING, PA 19603
REPORT- PS-I EQUIPMENT LIFE CYCLE COSTS

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
FT. GEORGE G. MEADE

DOB-2.1D 12/28/1995 14:45:54 PDL RUN 1
BUILDING 2786 - COMMISSARY
WEATHER FILE- BALTIMORE, MD

E Q U I P M E N T T O T A L S

| | | | |
|-----------------------|------|-------|------|
| HW-BOILER | 97.3 | | |
| NOMINAL SIZE (MBTU) | | 3.900 | |
| NUMBER INSTALLED | | 1 | |
| FIRST COST (K\$) | 88.3 | 88.3 | |
| ANNUAL COST (K\$) | 1.1 | 1.1 | |
| CYCLICAL COST (K\$) | 7.9 | 7.9 | |
| -----TOTAL----- (K\$) | | | 97.3 |
| ----- | | | |
| EQUIPMENT TOTAL | 97.3 | | |

| ENERGY TYPE | ELECTRICITY | NATURAL-GAS |
|-----------------|-------------|-------------|
| IN SITE MBTU - | | |
| CATEGORY OF USE | | |
| SPACE HEAT | 214.32 | 4223.45 |
| SPACE COOL | 617.12 | 0.00 |
| HVAC AUX | 1667.23 | 0.00 |
| DOM HOT WTR | 0.00 | 0.00 |
| AUX SOLAR | 0.00 | 0.00 |
| LIGHTS | 2481.18 | 0.00 |
| VERT TRANS | 0.00 | 0.00 |
| MISC EQUIP | 841.95 | 0.00 |
| TOTAL | 5821.79 | 4223.45 |

TOTAL SITE ENERGY 10045.34 MBTU 84.5 KBTU/SQFT-YR GROSS-AREA 84.5 KBTU/SQFT-YR NET-AREA
 TOTAL SOURCE ENERGY 21706.62 MBTU 182.6 KBTU/SQFT-YR GROSS-AREA 182.6 KBTU/SQFT-YR NET-AREA

PERCENT OF HOURS ANY SYSTEM ZONE OUTSIDE OF THROTTLING RANGE = 0.0
 PERCENT OF HOURS ANY PLANT LOAD NOT SATISFIED = 0.0

NOTE ELECTRICITY AND/OR FUEL USED TO GENERATE ELECTRICITY IS APPORTIONED BASED
 ON THE YEARLY DEMAND. ALL OTHER ENERGY TYPES ARE APPORTIONED HOURLY.

| MDDHH | HW-BOILE R LOAD BTU/HR | HW-BOILE R ELECTRIC USE BTU/HR | HW-BOILE R FUEL USE BTU/HR |
|-----------------------|---------------------------------|--------------------------------------------|----------------------------------------|
| | ----(1) | ----(3) | ----(4) |
| MONTHLY SUMMARY (JAN) | | | |
| MN | 75675. | 6659. | 123663. |
| MX | 1712924. | 85800. | 2462254. |
| SM | 639801792. | 49858152. | 1012774464. |
| AV | 859949. | 67014. | 1361256. |
| MONTHLY SUMMARY (FEB) | | | |
| MN | 36024. | 3170. | 58868. |
| MX | 1886692. | 85800. | 2662850. |
| SM | 550645952. | 42154716. | 867611904. |
| AV | 819414. | 62730. | 1291089. |
| MONTHLY SUMMARY (MAR) | | | |
| MN | 12487. | 1099. | 20405. |
| MX | 1556644. | 85800. | 2280533. |
| SM | 368596448. | 30793394. | 594034496. |
| AV | 495425. | 41389. | 798433. |
| MONTHLY SUMMARY (APR) | | | |
| MN | 12487. | 1099. | 20405. |
| MX | 1193751. | 85800. | 1853773. |
| SM | 145517984. | 12586482. | 236697232. |
| AV | 202108. | 17481. | 328746. |
| MONTHLY SUMMARY (OCT) | | | |
| MN | 12487. | 1099. | 20405. |
| MX | 1108595. | 85800. | 1752659. |
| SM | 87501944. | 7676449. | 142871696. |
| AV | 227870. | 19991. | 372062. |
| MONTHLY SUMMARY (NOV) | | | |
| MN | 12487. | 1099. | 20405. |
| MX | 1212138. | 85800. | 1875556. |
| SM | 282023552. | 24544474. | 459495488. |
| AV | 391699. | 34090. | 638188. |
| MONTHLY SUMMARY (DEC) | | | |
| MN | 31196. | 2745. | 50978. |
| MX | 1604858. | 85800. | 2336728. |
| SM | 566604544. | 46707036. | 909951936. |
| AV | 761565. | 62778. | 1223054. |

ENTECH ENGINEERING
READING, PA 19603
PH-1 = HOURLY-REPORT

EZDOR - ELITE SOFTWARE DEVELOPMENT INC
FT. GEORGE G. MEADE

DOE-2.1D 12/28/1995
BUILDING 2786 - COMMISSARY

14:45:54 PDL RUN 1

PAGE 2- 1

| HW-BOILE R LOAD BTU/HR | HW-BOILE R ELECTRIC USE BTU/HR | HW-BOILE R FUEL USE BTU/HR |
|---------------------------------|--------------------------------------------|----------------------------------------|
| ---- (1) | ---- (3) | ---- (4) |

YEARLY SUMMARY

| | | | |
|----|-------------|------------|-------------|
| MN | 12487. | 1099. | 20405. |
| MX | 1886692. | 85800. | 2662850. |
| SM | 2640692224. | 214320704. | 4223437312. |
| AV | 558522. | 45330. | 893282. |

BUILDING 2786
W/VENT CONTROL
FILE: FTM2786N

| SH-1 | MMDDHH | AHU-1 | AHU-1 | AHU-1 | AHU-1 | AHU-1 | AHU-2 | AHU-2 | AHU-2 |
|------|-----------------------|-------------------------------|---------------------------|--------------------------------|--------------------------------|--------------------------|-------------------------------|---------------------------|--------------------------|
| | | TOT HTG COIL PWR BTU/HR | COOLING ELECTRIC KW | CAPACITY CAPACITY BTU/HR | CAPACITY CAPACITY BTU/HR | SUPPLY ELECTRIC KW | TOT HTG COIL PWR BTU/HR | COOLING ELECTRIC KW | SUPPLY ELECTRIC KW |
| | ---- | (5) | (47) | (70) | (78) | (49) | (5) | (47) | (49) |
| | MONTHLY SUMMARY (JAN) | | | | | | | | |
| | MN | -796272. | 0.000 | 1402355. | -1251263. | 19.612 | -154179. | 0.000 | 4.171 |
| | MX | 0. | 0.000 | 1807260. | -1251263. | 19.612 | 0. | 0.000 | 4.171 |
| | SM | -161509056. | 0.000 | 1197682688. | -930940288. | 14591.033 | -25545264. | 0.000 | 3103.449 |
| | AV | -217082. | 0.000 | 1609789. | -1251264. | 19.612 | -34335. | 0.000 | 4.171 |
| | MONTHLY SUMMARY (FEB) | | | | | | | | |
| | MN | -926359. | 0.000 | 1381671. | -1251263. | 19.612 | -165836. | 0.000 | 4.171 |
| | MX | 0. | 0.000 | 1807260. | -1251263. | 19.612 | 0. | 0.000 | 4.171 |
| | SM | -127814968. | 0.000 | 1062603520. | -840849280. | 13178.997 | -20154952. | 0.000 | 2803.115 |
| | AV | -190201. | 0.000 | 1581255. | -1251264. | 19.612 | -29992. | 0.000 | 4.171 |
| | MONTHLY SUMMARY (MAR) | | | | | | | | |
| | MN | -597228. | 0.000 | 1294808. | -1251263. | 19.612 | -108530. | 0.000 | 4.171 |
| | MX | 0. | 0.000 | 1677148. | -1251263. | 19.612 | 0. | 0.000 | 4.171 |
| | SM | -53136948. | 0.000 | 1133088000. | -930940288. | 14591.033 | -6627361. | 0.000 | 3103.449 |
| | AV | -71421. | 0.000 | 1522968. | -1251264. | 19.612 | -8908. | 0.000 | 4.171 |
| | MONTHLY SUMMARY (APR) | | | | | | | | |
| | MN | -445663. | 0.000 | 1307878. | -1251263. | 19.612 | -76990. | 0.000 | 4.171 |
| | MX | 0. | 0.000 | 1630112. | -1251263. | 19.612 | 0. | 0.000 | 4.171 |
| | SM | -10842826. | 0.000 | 1061273024. | -900909952. | 14120.354 | -806402. | 0.000 | 3003.337 |
| | AV | -15059. | 0.000 | 1473990. | -1251264. | 19.612 | -1120. | 0.000 | 4.171 |
| | MONTHLY SUMMARY (MAY) | | | | | | | | |
| | MN | 0. | 0.000 | 1218618. | 0. | 19.612 | 0. | 0.000 | 4.171 |
| | MX | 0. | 72.850 | 1576448. | 0. | 19.612 | 0. | 16.432 | 4.171 |
| | SM | 0. | 14319.586 | 1040360960. | 0. | 14591.033 | 0. | 3546.782 | 3103.449 |
| | AV | 0. | 19.247 | 1398335. | 0. | 19.612 | 0. | 4.767 | 4.171 |
| | MONTHLY SUMMARY (JUN) | | | | | | | | |
| | MN | 0. | 0.000 | 1212441. | 0. | 19.612 | 0. | 0.000 | 4.171 |
| | MX | 0. | 125.864 | 1474038. | 0. | 19.612 | 0. | 26.821 | 4.171 |
| | SM | 0. | 29984.043 | 975496192. | 0. | 14120.354 | 0. | 6896.226 | 3003.337 |
| | AV | 0. | 41.645 | 1354856. | 0. | 19.612 | 0. | 9.578 | 4.171 |
| | MONTHLY SUMMARY (JUL) | | | | | | | | |
| | MN | 0. | 5.181 | 1208709. | 0. | 19.612 | 0. | 1.931 | 4.171 |
| | MX | 0. | 129.083 | 1502728. | 0. | 19.612 | 0. | 27.546 | 4.171 |
| | SM | 0. | 37795.027 | 1006841392. | 0. | 14591.033 | 0. | 8526.353 | 3103.449 |
| | AV | 0. | 50.800 | 1353284. | 0. | 19.612 | 0. | 11.460 | 4.171 |

| | AHU-1 | AHU-1 | AHU-1 | AHU-1 | AHU-1 | AHU-2 | AHU-2 | AHU-2 |
|-----------------------|-------------------------------|---------------------------|-------------------------------|-------------------------------|--------------------------|-------------------------------|---------------------------|--------------------------|
| | TOT HTG COIL PWR BTU/HR | COOLING ELECTRIC KW | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR | SUPPLY ELECTRIC KW | TOT HTG COIL PWR BTU/HR | COOLING ELECTRIC KW | SUPPLY ELECTRIC KW |
| | ---- (5) | ---- (47) | ---- (70) | ---- (78) | ---- (49) | ---- (5) | ---- (47) | ---- (49) |
| MONTHLY SUMMARY (AUG) | | | | | | | | |
| MN | 0. | 0.000 | 1235635. | 0. | 19.612 | 0. | 0.000 | 4.171 |
| MX | 0. | 128.632 | 1492086. | 0. | 19.612 | 0. | 27.127 | 4.171 |
| SM | 0. | 35445.863 | 1012746688. | 0. | 14591.033 | 0. | 8080.285 | 3103.449 |
| AV | 0. | 47.642 | 1361219. | 0. | 19.612 | 0. | 10.861 | 4.171 |
| MONTHLY SUMMARY (SEP) | | | | | | | | |
| MN | 0. | 0.000 | 1242711. | 0. | 19.612 | 0. | 0.000 | 4.171 |
| MX | 0. | 108.439 | 1494753. | 0. | 19.612 | 0. | 23.466 | 4.171 |
| SM | 0. | 22611.785 | 983612096. | 0. | 14120.354 | 0. | 5301.977 | 3003.337 |
| AV | 0. | 31.405 | 1366128. | 0. | 19.612 | 0. | 7.364 | 4.171 |
| MONTHLY SUMMARY (OCT) | | | | | | | | |
| MN | -367654. | 0.000 | 1256234. | -1251263. | 19.612 | -66123. | 0.000 | 4.171 |
| MX | 0. | 63.362 | 1599287. | 0. | 19.612 | 0. | 13.469 | 4.171 |
| SM | -15177657. | 8952.771 | 1061137472. | -480485248. | 14591.033 | -1959449. | 2268.996 | 3103.449 |
| AV | -20400. | 12.033 | 1426260. | -645814. | 19.612 | -2634. | 3.050 | 4.171 |
| MONTHLY SUMMARY (NOV) | | | | | | | | |
| MN | -421376. | 0.000 | 1361226. | -1251263. | 19.612 | -74832. | 0.000 | 4.171 |
| MX | 0. | 0.000 | 1630112. | -1251263. | 19.612 | 0. | 0.000 | 4.171 |
| SM | -38009116. | 0.000 | 1093123968. | -900909952. | 14120.354 | -3749846. | 0.000 | 3003.337 |
| AV | -52790. | 0.000 | 1518228. | -1251264. | 19.612 | -5208. | 0.000 | 4.171 |
| MONTHLY SUMMARY (DEC) | | | | | | | | |
| MN | -663102. | 0.000 | 1381671. | -1251263. | 19.612 | -123455. | 0.000 | 4.171 |
| MX | 0. | 0.000 | 1733234. | -1251263. | 19.612 | 0. | 0.000 | 4.171 |
| SM | -124808720. | 0.000 | 1173836672. | -930940288. | 14591.033 | -17948170. | 0.000 | 3103.449 |
| AV | -167754. | 0.000 | 1577738. | -1251264. | 19.612 | -24124. | 0.000 | 4.171 |
| YEARLY SUMMARY | | | | | | | | |
| MN | -926359. | 0.000 | 1208709. | -1251263. | 19.612 | -165836. | 0.000 | 4.171 |
| MX | 0. | 129.083 | 1807260. | 0. | 19.612 | 0. | 27.546 | 4.171 |
| SM | -531299328. | 149109.063 | 12801805312. | -5915975680. | 171797.641 | -76791440. | 34620.617 | 36540.609 |
| AV | -60651. | 17.022 | 1461393. | -675340. | 19.612 | -8766. | 3.952 | 4.171 |

| MMDDHH | AHU-2 | AHU-2 | AHU-3 | AHU-3 | AHU-3 | UH-1 | UH-1 | UH-1 |
|-----------------------|-------------------------------|-------------------------------|-------------------------------|--------------------------|-------------------------------|-------------------------------|--------------------------|-------------------------------|
| | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | HEATING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | HEATING CAPACITY BTU/HR |
| | ----(70) | ----(78) | ----(5) | ----(49) | ----(78) | ----(5) | ----(49) | ----(78) |
| MONTHLY SUMMARY (JAN) | | | | | | | | |
| MN | 296121. | -266138. | -467300. | 30.794 | -440973. | -208656. | 0.000 | 0. |
| MX | 381620. | -266138. | -39111. | 30.794 | -440973. | -21276. | 0.000 | 0. |
| SM | 252910096. | -198006688. | -269698560. | 22911.053 | -328084160. | -71045960. | 0.000 | 0. |
| AV | 339933. | -266138. | -362498. | 30.794 | -440973. | -95492. | 0.000 | 0. |
| MONTHLY SUMMARY (FEB) | | | | | | | | |
| MN | 291753. | -266138. | -507119. | 30.794 | -440973. | -345525. | 0.000 | 0. |
| MX | 381620. | -266138. | -11138. | 30.794 | -440973. | -12159. | 0.000 | 0. |
| SM | 224388192. | -178844752. | -236749184. | 20693.854 | -296334080. | -67995200. | 0.000 | 0. |
| AV | 333911. | -266138. | -352305. | 30.794 | -440973. | -101183. | 0.000 | 0. |
| MONTHLY SUMMARY (MAR) | | | | | | | | |
| MN | 273411. | -266138. | -497251. | 30.794 | -440973. | -231511. | 0.000 | 0. |
| MX | 354146. | -266138. | 0. | 30.794 | -440973. | 0. | 0.000 | 0. |
| SM | 239373840. | -198006688. | -182124000. | 22911.053 | -328084160. | -50218900. | 0.000 | 0. |
| AV | 321739. | -266138. | -244790. | 30.794 | -440973. | -67499. | 0.000 | 0. |
| MONTHLY SUMMARY (APR) | | | | | | | | |
| MN | 277437. | -266138. | -455914. | 30.794 | -440973. | -156386. | 0.000 | 0. |
| MX | 347977. | -266138. | 0. | 30.794 | -440973. | 0. | 0.000 | 0. |
| SM | 224885856. | -191619376. | -77506048. | 22171.986 | -317500800. | -21161056. | 0.000 | 0. |
| AV | 312341. | -266138. | -107647. | 30.794 | -440973. | -29390. | 0.000 | 0. |
| MONTHLY SUMMARY (MAY) | | | | | | | | |
| MN | 257323. | 0. | 0. | 30.794 | 0. | 0. | 0.000 | 0. |
| MX | 332882. | 0. | 0. | 30.794 | 0. | 0. | 0.000 | 0. |
| SM | 219456064. | 0. | 0. | 22911.053 | 0. | 0. | 0.000 | 0. |
| AV | 294968. | 0. | 0. | 30.794 | 0. | 0. | 0.000 | 0. |
| MONTHLY SUMMARY (JUN) | | | | | | | | |
| MN | 256537. | 0. | 0. | 30.794 | 0. | 0. | 0.000 | 0. |
| MX | 308314. | 0. | 0. | 30.794 | 0. | 0. | 0.000 | 0. |
| SM | 205323568. | 0. | 0. | 22171.986 | 0. | 0. | 0.000 | 0. |
| AV | 285172. | 0. | 0. | 30.794 | 0. | 0. | 0.000 | 0. |
| MONTHLY SUMMARY (JUL) | | | | | | | | |
| MN | 254821. | 0. | 0. | 30.794 | 0. | 0. | 0.000 | 0. |
| MX | 315768. | 0. | 0. | 30.794 | 0. | 0. | 0.000 | 0. |
| SM | 211710496. | 0. | 0. | 22911.053 | 0. | 0. | 0.000 | 0. |
| AV | 284557. | 0. | 0. | 30.794 | 0. | 0. | 0.000 | 0. |

| | AHU-2 | AHU-2 | AHU-3 | AHU-3 | AHU-3 | UH-1 | UH-1 | UH-1 |
|-----------------------|-------------------------------|-------------------------------|-------------------------------|--------------------------|-------------------------------|-------------------------------|--------------------------|-------------------------------|
| | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | HEATING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | HEATING CAPACITY BTU/HR |
| | ----(70) | ----(78) | ----(5) | ----(49) | ----(78) | ----(5) | ----(49) | ----(78) |
| MONTHLY SUMMARY (AUG) | | | | | | | | |
| MN | 261261. | 0. | 0. | 30.794 | 0. | 0. | 0.000 | 0. |
| MX | 311538. | 0. | 0. | 30.794 | 0. | 0. | 0.000 | 0. |
| SM | 212904480. | 0. | 0. | 22911.053 | 0. | 0. | 0.000 | 0. |
| AV | 286162. | 0. | 0. | 30.794 | 0. | 0. | 0.000 | 0. |
| MONTHLY SUMMARY (SEP) | | | | | | | | |
| MN | 262467. | 0. | 0. | 30.794 | 0. | 0. | 0.000 | 0. |
| MX | 315631. | 0. | 0. | 30.794 | 0. | 0. | 0.000 | 0. |
| SM | 207314192. | 0. | 0. | 22171.986 | 0. | 0. | 0.000 | 0. |
| AV | 287936. | 0. | 0. | 30.794 | 0. | 0. | 0.000 | 0. |
| MONTHLY SUMMARY (OCT) | | | | | | | | |
| MN | 265266. | -266138. | -303520. | 30.794 | -440973. | -174055. | 0.000 | 0. |
| MX | 337705. | 0. | 0. | 30.794 | 0. | 0. | 0.000 | 0. |
| SM | 223864448. | -102197000. | -30189086. | 22911.053 | -169333760. | -9707728. | 0.000 | 0. |
| AV | 300893. | -137362. | -40577. | 30.794 | -227599. | -13048. | 0.000 | 0. |
| MONTHLY SUMMARY (NOV) | | | | | | | | |
| MN | 288869. | -266138. | -454713. | 30.794 | -440973. | -149668. | 0.000 | 0. |
| MX | 344918. | -266138. | 0. | 30.794 | -440973. | 0. | 0.000 | 0. |
| SM | 231046592. | -191619376. | -135494016. | 22171.986 | -317500800. | -34323952. | 0.000 | 0. |
| AV | 320898. | -266138. | -188186. | 30.794 | -440973. | -47672. | 0.000 | 0. |
| MONTHLY SUMMARY (DEC) | | | | | | | | |
| MN | 292442. | -266138. | -478281. | 30.794 | -440973. | -207045. | 0.000 | 0. |
| MX | 365989. | -266138. | -4647. | 30.794 | -440973. | -9437. | 0.000 | 0. |
| SM | 247892096. | -198006688. | -251973840. | 22911.053 | -328084160. | -63693232. | 0.000 | 0. |
| AV | 333188. | -266138. | -338675. | 30.794 | -440973. | -85609. | 0.000 | 0. |
| YEARLY SUMMARY | | | | | | | | |
| MN | 254821. | -266138. | -507119. | 30.794 | -440973. | -345525. | 0.000 | 0. |
| MX | 381620. | 0. | 0. | 30.794 | 0. | 0. | 0.000 | 0. |
| SM | 2701069824. | -1258300544. | -1183734784. | 269759.156 | -2084921856. | -318146016. | 0.000 | 0. |
| AV | 308341. | -143642. | -135130. | 30.794 | -238005. | -36318. | 0.000 | 0. |

| S I T E E N E R G Y | | | | | | | | | | | | | * SOURCE |
|-----------------------|-----------------|--------------------|-------------------|---------------|-----------------------|--------------------|-------------------|--------------------|-------------------|------------------|------------------|-------------------|-----------------------|
| MONTH | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| | TOTAL HEAT LOAD | TOTAL COOLING LOAD | TOTAL ELECTR LOAD | RCVRED ENERGY | WASTED RCVRABL ENERGY | FUEL INPUT COOLING | ELC INPUT COOLING | FUEL INPUT HEATING | ELC INPUT HEATING | FUEL INPUT ELECT | TOTAL FUEL INPUT | TOTAL SITE ENERGY | * TOTAL SOURCE ENERGY |
| JAN | 537.0 | 0.0 | 475.9 139.4E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 864.4 | 49.8 14.6E | 0.0 | 864.4 | 1340.3 | * 2293.5 |
| FEB | 461.1 | 0.0 | 419.4 122.8E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 738.1 | 42.2 12.4E | 0.0 | 738.1 | 1157.5 | * 1997.5 |
| MAR | 301.3 | 0.0 | 459.2 134.5E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 490.0 | 31.2 9.1E | 0.0 | 490.0 | 949.3 | * 1869.1 |
| APR | 119.3 | 0.0 | 429.3 125.7E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 194.8 | 15.4 4.5E | 0.0 | 194.8 | 624.0 | * 1483.8 |
| MAY | 0.0 | 0.0 | 477.8 139.9E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 0.0 | 0.0 0.0E | 0.0 | 0.0 | 477.8 | * 1434.9 |
| JUN | 0.0 | 0.0 | 539.6 158.0E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 0.0 | 0.0 0.0E | 0.0 | 0.0 | 539.6 | * 1620.4 |
| JUL | 0.0 | 0.0 | 575.0 168.4E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 0.0 | 0.0 0.0E | 0.0 | 0.0 | 575.0 | * 1726.7 |
| AUG | 0.0 | 0.0 | 576.4 168.8E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 0.0 | 0.0 0.0E | 0.0 | 0.0 | 576.4 | * 1730.8 |
| SEP | 0.0 | 0.0 | 500.2 146.5E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 0.0 | 0.0 0.0E | 0.0 | 0.0 | 500.2 | * 1502.0 |
| OCT | 61.8 | 0.0 | 463.3 135.7E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 101.0 | 8.1 2.4E | 0.0 | 101.0 | 564.3 | * 1492.3 |
| NOV | 220.5 | 0.0 | 420.6 123.2E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 360.3 | 24.4 7.1E | 0.0 | 360.3 | 780.9 | * 1623.4 |
| DEC | 467.7 | 0.0 | 464.8 136.1E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 759.9 | 45.4 13.3E | 0.0 | 759.9 | 1224.7 | * 2155.6 |
| | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| | 2168.6 | 0.0 | 5801.4 1699.1E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 3508.4 | 216.5 63.4E | 0.0 | 3508.4 | 9309.9 | * 20930.1 |

NOTE-- ALL ENTRIES ARE IN MBTU EXCEPT
 ENTRIES FOLLOWED BY E ARE IN MWH (THOUSANDS OF KWH)

ENTECH ENGINEERING
 READING, PA 19603
 REPORT- PS-B MONTHLY PEAK AND TOTAL

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
 FT. GEORGE G. MEADE
 ENERGY USE

DOB-2.1D 12/28/1995 15: 2:45 PDL RUN 1
 BUILDING 2786 - COMMISSARY
 WEATHER FILE- BALTIMORE, MD

| MO | UTILITY- | ELECTRICITY | NATURAL-GAS |
|-----|--------------|-------------|-------------|
| | TOTAL (MBTU) | 475.888 | 864.403 |
| JAN | PEAK (KBTU) | 872.004 | 2302.818 |
| | DY/HR | 17/10 | 16/20 |
| | TOTAL (MBTU) | 419.370 | 738.108 |
| FEB | PEAK (KBTU) | 872.849 | 2649.592 |
| | DY/HR | 12/13 | 12/ 6 |
| | TOTAL (MBTU) | 459.241 | 490.018 |
| MAR | PEAK (KBTU) | 872.080 | 2030.293 |
| | DY/HR | 4/10 | 5/ 8 |
| | TOTAL (MBTU) | 429.255 | 194.772 |
| APR | PEAK (KBTU) | 871.665 | 1743.182 |
| | DY/HR | 8/11 | 9/ 6 |
| | TOTAL (MBTU) | 477.836 | 0.000 |
| MAY | PEAK (KBTU) | 1080.878 | 0.000 |
| | DY/HR | 21/17 | 31/ 1 |
| | TOTAL (MBTU) | 539.600 | 0.000 |
| JUN | PEAK (KBTU) | 1299.290 | 0.000 |
| | DY/HR | 10/16 | 30/ 1 |
| | TOTAL (MBTU) | 574.993 | 0.000 |
| JUL | PEAK (KBTU) | 1312.758 | 0.000 |
| | DY/HR | 25/17 | 31/ 1 |
| | TOTAL (MBTU) | 576.361 | 0.000 |
| AUG | PEAK (KBTU) | 1309.787 | 0.000 |
| | DY/HR | 18/17 | 31/ 1 |
| | TOTAL (MBTU) | 500.176 | 0.000 |
| SEP | PEAK (KBTU) | 1227.869 | 0.000 |
| | DY/HR | 1/17 | 30/ 1 |
| | TOTAL (MBTU) | 463.301 | 100.989 |
| OCT | PEAK (KBTU) | 1040.291 | 1301.045 |
| | DY/HR | 13/16 | 28/ 6 |
| | TOTAL (MBTU) | 420.635 | 360.250 |
| NOV | PEAK (KBTU) | 871.621 | 1716.258 |
| | DY/HR | 25/ 7 | 25/ 6 |
| | TOTAL (MBTU) | 464.774 | 759.890 |
| DEC | PEAK (KBTU) | 871.994 | 2084.711 |
| | DY/HR | 6/12 | 21/ 6 |
| | ONE YEAR | 5801.429 | 3508.430 |
| | USE/PEAK | 1312.758 | 2649.592 |

ENTECH ENGINEERING
 READING, PA 19603
 REPORT- PS-D PLANT LOADS SATISFIED

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
 FT. GEORGE G. MEADE

DOB-2.1D 12/28/1995 15: 2:45 PDL RUN 1
 BUILDING 2786 - COMMISSARY
 WEATHER FILE- BALTIMORE, MD

| HEATING LOADS | MBTU SUPPLIED | PCT OF TOTAL LOAD |
|---------------------|---------------|-------------------|
| HW-BOILER | 2168.7 | 100.0 |
| LOAD SATISFIED | 2168.7 | 100.0 |
| TOTAL LOAD ON PLANT | 2168.7 | |

| ELECTRICAL LOADS | MBTU SUPPLIED | PCT OF TOTAL LOAD |
|---------------------|---------------|-------------------|
| ELECTRICITY | 5801.4 | 100.0 |
| LOAD SATISFIED | 5801.4 | 100.0 |
| TOTAL LOAD ON PLANT | 5801.4 | |

ENTECH ENGINEERING
READING, PA 19603
REPORT- PS-D PLANT LOADS SATISFIED

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
FT. GEORGE G. MEADE

DOB-2.1D 12/28/1995 15: 2:45 PDL RUN 1
BUILDING 2786 - COMMISSARY
WEATHER FILE- BALTIMORE, MD
----- (CONTINUED) -----

SUMMARY OF LOADS MET

| TYPE OF LOAD | TOTAL LOAD (MBTU) | LOAD SATISFIED (MBTU) | TOTAL OVERLOAD (MBTU) | PEAK OVERLOAD (MBTU) | HOURS OVERLOADED |
|------------------|-------------------------|-----------------------------|-----------------------------|----------------------------|---------------------|
| HEATING LOADS | 2168.7 | 2168.7 | 0.000 | 0.000 | 0 |
| ELECTRICAL LOADS | 5801.4 | 5801.4 | 0.000 | 0.000 | 0 |

ENTECH ENGINEERING
 READING, PA 19603
 REPORT- PS-H EQUIPMENT USE STATISTICS

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
 FT. GEORGE G. MEADE

DOE-2.1D 12/28/1995 15: 2:45 PDL RUN 1
 BUILDING 2786 - COMMISSARY
 WEATHER FILE- BALTIMORE, MD

| EQUIPMENT | AVG OPER RATIO | MAX LOAD (MBTU) | MON | | --- | | --- | | --- | | --- | |
|-----------|----------------------|-----------------------|-----|----|----------------|-------------|----------------|-------------|----------------|-------------|----------------|-------------|
| | | | DAY | HR | SIZE (MBTU) | OPER HRS | SIZE (MBTU) | OPER HRS | SIZE (MBTU) | OPER HRS | SIZE (MBTU) | OPER HRS |
| HW-BOILER | 0.118 | 1.875 | 2 | 12 | 6 | 3.900 | 4728 | | | | | |

EQUIPMENT TOTALS

| | | | |
|-----------------------|------|-------|------|
| HW-BOILER | 97.3 | | |
| NOMINAL SIZE (MBTU) | | 3.900 | |
| NUMBER INSTALLED | | | 1 |
| FIRST COST (K\$) | 88.3 | | 88.3 |
| ANNUAL COST (K\$) | 1.1 | | 1.1 |
| CYCLICAL COST (K\$) | 7.9 | | 7.9 |
| -----TOTAL----- (K\$) | | | 97.3 |
| <hr/> | | | |
| EQUIPMENT TOTAL | 97.3 | | |

| ENERGY TYPE IN SITE MBTU - | ELECTRICITY | NATURAL-GAS |
|-------------------------------|-------------|-------------|
| CATEGORY OF USE | | |
| SPACE HEAT | 183.86 | 3508.42 |
| SPACE COOL | 627.33 | 0.00 |
| HVAC AUX | 1667.00 | 0.00 |
| DOM HOT WTR | 0.00 | 0.00 |
| AUX SOLAR | 0.00 | 0.00 |
| LIGHTS | 2481.16 | 0.00 |
| VERT TRANS | 0.00 | 0.00 |
| MISC EQUIP | 841.95 | 0.00 |
| TOTAL | 5801.29 | 3508.42 |

TOTAL SITE ENERGY 9309.86 MBTU 78.3 KBTU/SQFT-YR GROSS-AREA 78.3 KBTU/SQFT-YR NET-AREA
 TOTAL SOURCE ENERGY 20930.14 MBTU 176.1 KBTU/SQFT-YR GROSS-AREA 176.1 KBTU/SQFT-YR NET-AREA

PERCENT OF HOURS ANY SYSTEM ZONE OUTSIDE OF THROTTLING RANGE = 0.0
 PERCENT OF HOURS ANY PLANT LOAD NOT SATISFIED = 0.0

NOTE ELECTRICITY AND/OR FUEL USED TO GENERATE ELECTRICITY IS APPORTIONED BASED
 ON THE YEARLY DEMAND. ALL OTHER ENERGY TYPES ARE APPORTIONED HOURLY.

| MMDDHH | HW-BOILE R LOAD BTU/HR | HW-BOILE R ELECTRIC USE BTU/HR | HW-BOILE R FUEL USE BTU/HR |
|-----------------------|---------------------------------|--------------------------------------------|----------------------------------------|
| | ----(1) | ----(3) | ----(4) |
| MONTHLY SUMMARY (JAN) | | | |
| MN | 74683. | 6572. | 122042. |
| MX | 1575751. | 85800. | 2302818. |
| SM | 537032192. | 44656424. | 864402496. |
| AV | 721817. | 60022. | 1161831. |
| MONTHLY SUMMARY (FEB) | | | |
| MN | 35707. | 3142. | 58351. |
| MX | 1875165. | 85800. | 2649592. |
| SM | 461054112. | 37568352. | 738108416. |
| AV | 686092. | 55905. | 1098376. |
| MONTHLY SUMMARY (MAR) | | | |
| MN | 12410. | 1092. | 20280. |
| MX | 1343164. | 85800. | 2030293. |
| SM | 301340576. | 26038210. | 490018400. |
| AV | 405028. | 34998. | 658627. |
| MONTHLY SUMMARY (APR) | | | |
| MN | 12410. | 1092. | 20280. |
| MX | 1100630. | 85800. | 1743182. |
| SM | 119251840. | 10473671. | 194771712. |
| AV | 165628. | 14547. | 270516. |
| MONTHLY SUMMARY (OCT) | | | |
| MN | 12410. | 1092. | 20280. |
| MX | 796165. | 70063. | 1301045. |
| SM | 61799536. | 5438359. | 100989072. |
| AV | 160936. | 14162. | 262992. |
| MONTHLY SUMMARY (NOV) | | | |
| MN | 12410. | 1092. | 20280. |
| MX | 1078015. | 85800. | 1716258. |
| SM | 220512464. | 19385560. | 360250560. |
| AV | 306267. | 26924. | 500348. |
| MONTHLY SUMMARY (DEC) | | | |
| MN | 29246. | 2574. | 47792. |
| MX | 1389420. | 85800. | 2084711. |
| SM | 467657344. | 40294612. | 759890048. |
| AV | 628572. | 54159. | 1021358. |

ENTECH ENGINEERING
READING, PA 19603
- HOURLY-REPORT

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
PT. GEORGE G. MEADE

DOE-2.1D 12/28/1995 15: 2:45 PDL RUN 1
BUILDING 2786 - COMMISSARY

PAGE 2- 1

HW-BOILE HW-BOILE HW-BOILE
R R R
LOAD ELECTRIC FUEL
USE USE USE
BTU/HR BTU/HR BTU/HR

---- (1) ---- (3) ---- (4)

YEARLY SUMMARY

| | | | |
|----|-------------|------------|-------------|
| MN | 12410. | 1092. | 20280. |
| MX | 1875165. | 85800. | 2649592. |
| SM | 2168648192. | 183855184. | 3508430848. |
| AV | 458682. | 38886. | 742054. |

BUILDING 2786
 N/VENT & NIGHT SETBACK
 FILE : FTM 2786N

| MMDDHH | AHU-1 | AHU-1 | AHU-1 | AHU-1 | AHU-1 | AHU-2 | AHU-2 | AHU-2 |
|-----------------------|-------------------------------|---------------------------|-------------------------------|-------------------------------|--------------------------|-------------------------------|---------------------------|--------------------------|
| | TOT HTG COIL PWR BTU/HR | COOLING ELECTRIC KW | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR | SUPPLY ELECTRIC KW | TOT HTG COIL PWR BTU/HR | COOLING ELECTRIC KW | SUPPLY ELECTRIC KW |
| | ---- (5) | ----(47) | ----(70) | ----(78) | ----(49) | ----(5) | ----(47) | ----(49) |
| MONTHLY SUMMARY (JAN) | | | | | | | | |
| MN | -1135218. | 0.000 | 1409303. | -1251263. | 19.612 | -243149. | 0.000 | 4.171 |
| MX | 0. | 0.000 | 1807260. | -1251263. | 19.612 | 0. | 0.000 | 4.171 |
| SM | -157045680. | 0.000 | 719373184. | -563068544. | 8825.219 | -25990538. | 0.000 | 1877.084 |
| AV | -348990. | 0.000 | 1598607. | -1251263. | 19.612 | -57757. | 0.000 | 4.171 |
| MONTHLY SUMMARY (FEB) | | | | | | | | |
| MN | -1146109. | 0.000 | 1381671. | -1251263. | 19.612 | -233735. | 0.000 | 4.171 |
| MX | 0. | 0.000 | 1807260. | -1251263. | 19.612 | 0. | 0.000 | 4.171 |
| SM | -123299944. | 0.000 | 615830272. | -491746560. | 7707.358 | -20355062. | 0.000 | 1639.320 |
| AV | -313740. | 0.000 | 1566998. | -1251264. | 19.612 | -51794. | 0.000 | 4.171 |
| MONTHLY SUMMARY (MAR) | | | | | | | | |
| MN | -878154. | 0.000 | 1294808. | -1251263. | 19.612 | -165338. | 0.000 | 4.171 |
| MX | 0. | 0.000 | 1669242. | -1251263. | 19.612 | 0. | 0.000 | 4.171 |
| SM | -56846028. | 0.000 | 681274304. | -566822400. | 8884.054 | -7708007. | 0.000 | 1889.598 |
| AV | -125488. | 0.000 | 1503917. | -1251264. | 19.612 | -17015. | 0.000 | 4.171 |
| MONTHLY SUMMARY (APR) | | | | | | | | |
| MN | -635343. | 0.000 | 1307878. | -1251263. | 19.612 | -109021. | 0.000 | 4.171 |
| MX | 0. | 0.000 | 1630112. | -1251263. | 19.612 | 0. | 0.000 | 4.171 |
| SM | -12988204. | 0.000 | 637384704. | -548053376. | 8589.880 | -1153396. | 0.000 | 1827.028 |
| AV | -29653. | 0.000 | 1455216. | -1251263. | 19.612 | -2633. | 0.000 | 4.171 |
| MONTHLY SUMMARY (MAY) | | | | | | | | |
| MN | 0. | 0.000 | 1218618. | 0. | 19.612 | 0. | 0.000 | 4.171 |
| MX | 0. | 76.020 | 1568888. | 0. | 19.612 | 0. | 16.685 | 4.171 |
| SM | 0. | 11585.011 | 603216960. | 0. | 8531.045 | 0. | 2906.422 | 1814.515 |
| AV | 0. | 26.632 | 1386706. | 0. | 19.612 | 0. | 6.681 | 4.171 |
| MONTHLY SUMMARY (JUN) | | | | | | | | |
| MN | 0. | 0.000 | 1212441. | 0. | 19.612 | 0. | 0.660 | 4.171 |
| MX | 0. | 130.339 | 1472445. | 0. | 19.612 | 0. | 27.851 | 4.171 |
| SM | 0. | 25695.783 | 590365696. | 0. | 8589.880 | 0. | 5946.947 | 1827.029 |
| AV | 0. | 58.666 | 1347867. | 0. | 19.612 | 0. | 13.578 | 4.171 |
| MONTHLY SUMMARY (JUL) | | | | | | | | |
| MN | 0. | 12.462 | 1237306. | 0. | 19.612 | 0. | 3.814 | 4.171 |
| MX | 0. | 135.709 | 1482158. | 0. | 19.612 | 0. | 28.969 | 4.171 |
| SM | 0. | 31864.377 | 588961664. | 0. | 8531.045 | 0. | 7274.954 | 1814.515 |
| AV | 0. | 73.251 | 1353935. | 0. | 19.612 | 0. | 16.724 | 4.171 |

| | AHU-1 | AHU-1 | AHU-1 | AHU-1 | AHU-1 | AHU-2 | AHU-2 | AHU-2 |
|-----------------------|-------------------------------|---------------------------|-------------------------------|-------------------------------|--------------------------|-------------------------------|---------------------------|--------------------------|
| | TOT HTG COIL PWR BTU/HR | COOLING ELECTRIC KW | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR | SUPPLY ELECTRIC KW | TOT HTG COIL PWR BTU/HR | COOLING ELECTRIC KW | SUPPLY ELECTRIC KW |
| | ----(5) | ----(47) | ----(70) | ----(78) | ----(49) | ----(5) | ----(47) | ----(49) |
| MONTHLY SUMMARY (AUG) | | | | | | | | |
| MN | 0. | 0.000 | 1237030. | 0. | 19.612 | 0. | 0.765 | 4.171 |
| MX | 0. | 132.263 | 1472355. | 0. | 19.612 | 0. | 27.989 | 4.171 |
| SM | 0. | 30510.770 | 614245952. | 0. | 8884.054 | 0. | 7020.851 | 1889.598 |
| AV | 0. | 67.353 | 1355951. | 0. | 19.612 | 0. | 15.499 | 4.171 |
| MONTHLY SUMMARY (SEP) | | | | | | | | |
| MN | 0. | 0.000 | 1242917. | 0. | 19.612 | 0. | 0.000 | 4.171 |
| MX | 0. | 113.617 | 1494753. | 0. | 19.612 | 0. | 25.428 | 4.171 |
| SM | 0. | 18914.748 | 574903872. | 0. | 8295.706 | 0. | 4481.602 | 1764.459 |
| AV | 0. | 44.716 | 1359111. | 0. | 19.612 | 0. | 10.595 | 4.171 |
| MONTHLY SUMMARY (OCT) | | | | | | | | |
| MN | -373808. | 0.000 | 1267978. | -1251263. | 19.612 | -66798. | 0.000 | 4.171 |
| MX | 0. | 64.021 | 1599287. | 0. | 19.612 | 0. | 13.753 | 4.171 |
| SM | -9505911. | 7240.162 | 612805440. | -289041760. | 8531.045 | -1136356. | 1859.837 | 1814.515 |
| AV | -21853. | 16.644 | 1408748. | -664464. | 19.612 | -2612. | 4.275 | 4.171 |
| MONTHLY SUMMARY (NOV) | | | | | | | | |
| MN | -795248. | 0.000 | 1361226. | -1251263. | 19.612 | -151382. | 0.000 | 4.171 |
| MX | 0. | 0.000 | 1630112. | -1251263. | 19.612 | 0. | 0.000 | 4.171 |
| SM | -36386940. | 0.000 | 612990848. | -510515520. | 8001.532 | -3926627. | 0.000 | 1701.890 |
| AV | -89184. | 0.000 | 1502429. | -1251264. | 19.612 | -9624. | 0.000 | 4.171 |
| MONTHLY SUMMARY (DEC) | | | | | | | | |
| MN | -945665. | 0.000 | 1381671. | -1251263. | 19.612 | -183024. | 0.000 | 4.171 |
| MX | 0. | 0.000 | 1733234. | -1251263. | 19.612 | 0. | 0.000 | 4.171 |
| SM | -122583696. | 0.000 | 684461312. | -548053376. | 8589.880 | -18270242. | 0.000 | 1827.029 |
| AV | -279871. | 0.000 | 1562697. | -1251263. | 19.612 | -41713. | 0.000 | 4.171 |
| YEARLY SUMMARY | | | | | | | | |
| MN | -1146109. | 0.000 | 1212441. | -1251263. | 19.612 | -243149. | 0.000 | 4.171 |
| MX | 0. | 135.709 | 1807260. | 0. | 19.612 | 0. | 28.969 | 4.171 |
| SM | -518656184. | 125810.852 | 7535814656. | -3517301248. | 101960.695 | -78540232. | 29490.609 | 21686.580 |
| AV | -99761. | 24.199 | 1449474. | -676534. | 19.612 | -15107. | 5.672 | 4.171 |

| MMDDHH | AHU-2 | AHU-2 | AHU-3 | AHU-3 | AHU-3 | UH-1 | UH-1 | UH-1 |
|-----------------------|-------------------------------|-------------------------------|-------------------------------|--------------------------|-------------------------------|-------------------------------|--------------------------|-------------------------------|
| | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR | SUPPLY ELBCTRIC KW | HEATING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | HEATING CAPACITY BTU/HR |
| | ----(70) | ----(78) | ----(5) | ----(49) | ----(78) | ----(5) | ----(49) | ----(78) |
| MONTHLY SUMMARY (JAN) | | | | | | | | |
| MN | 297588. | -266138. | -460314. | 30.794 | -440973. | -209720. | 0.000 | 0. |
| MX | 381620. | -266138. | -65523. | 30.794 | -440973. | -21678. | 0.000 | 0. |
| SM | 151907504. | -119762144. | -162765808. | 13857.481 | -198438064. | -43695704. | 0.000 | 0. |
| AV | 337572. | -266138. | -361702. | 30.794 | -440973. | -97102. | 0.000 | 0. |
| MONTHLY SUMMARY (FEB) | | | | | | | | |
| MN | 291753. | -266138. | -476377. | 30.794 | -440973. | -346055. | 0.000 | 0. |
| MX | 381620. | -266138. | -29105. | 30.794 | -440973. | -12646. | 0.000 | 0. |
| SM | 130040832. | -104592272. | -135986320. | 12102.201 | -173302560. | -40932576. | 0.000 | 0. |
| AV | 330893. | -266138. | -346021. | 30.794 | -440973. | -104154. | 0.000 | 0. |
| MONTHLY SUMMARY (MAR) | | | | | | | | |
| MN | 273411. | -266138. | -468503. | 30.794 | -440973. | -221214. | 0.000 | 0. |
| MX | 352476. | -266138. | 0. | 30.794 | -440973. | 0. | 0.000 | 0. |
| SM | 143884144. | -120560560. | -110576464. | 13949.865 | -199760992. | -31633754. | 0.000 | 0. |
| AV | 317625. | -266138. | -244098. | 30.794 | -440974. | -69832. | 0.000 | 0. |
| MONTHLY SUMMARY (APR) | | | | | | | | |
| MN | 276171. | -266138. | -455473. | 30.794 | -440973. | -156707. | 0.000 | 0. |
| MX | 344214. | -266138. | 0. | 30.794 | -440973. | 0. | 0.000 | 0. |
| SM | 134946544. | -116568488. | -48130348. | 13487.948 | -193146384. | -13774161. | 0.000 | 0. |
| AV | 308097. | -266138. | -109887. | 30.794 | -440973. | -31448. | 0.000 | 0. |
| MONTHLY SUMMARY (MAY) | | | | | | | | |
| MN | 257323. | 0. | 0. | 30.794 | 0. | 0. | 0.000 | 0. |
| MX | 331286. | 0. | 0. | 30.794 | 0. | 0. | 0.000 | 0. |
| SM | 127263344. | 0. | 0. | 13395.565 | 0. | 0. | 0.000 | 0. |
| AV | 292559. | 0. | 0. | 30.794 | 0. | 0. | 0.000 | 0. |
| MONTHLY SUMMARY (JUN) | | | | | | | | |
| MN | 256635. | 0. | 0. | 30.794 | 0. | 0. | 0.000 | 0. |
| MX | 307837. | 0. | 0. | 30.794 | 0. | 0. | 0.000 | 0. |
| SM | 124348200. | 0. | 0. | 13487.948 | 0. | 0. | 0.000 | 0. |
| AV | 283900. | 0. | 0. | 30.794 | 0. | 0. | 0.000 | 0. |
| MONTHLY SUMMARY (JUL) | | | | | | | | |
| MN | 261269. | 0. | 0. | 30.794 | 0. | 0. | 0.000 | 0. |
| MX | 311705. | 0. | 0. | 30.794 | 0. | 0. | 0.000 | 0. |
| SM | 123965416. | 0. | 0. | 13395.565 | 0. | 0. | 0.000 | 0. |
| AV | 284978. | 0. | 0. | 30.794 | 0. | 0. | 0.000 | 0. |

| | AHU-2 | AHU-2 | AHU-3 | AHU-3 | AHU-3 | UH-1 | UH-1 | UH-1 |
|-----------------------|-------------------------------|-------------------------------|-------------------------------|--------------------------|-------------------------------|-------------------------------|--------------------------|-------------------------------|
| | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | HEATING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | HEATING CAPACITY BTU/HR |
| | ---- (70) | ---- (78) | ---- (5) | ---- (49) | ---- (78) | ---- (5) | ---- (49) | ---- (78) |
| MONTHLY SUMMARY (AUG) | | | | | | | | |
| MN | 261648. | 0. | 0. | 30.794 | 0. | 0. | 0.000 | 0. |
| MX | 308320. | 0. | 0. | 30.794 | 0. | 0. | 0.000 | 0. |
| SM | 129299568. | 0. | 0. | 13949.865 | 0. | 0. | 0.000 | 0. |
| AV | 285430. | 0. | 0. | 30.794 | 0. | 0. | 0.000 | 0. |
| MONTHLY SUMMARY (SEP) | | | | | | | | |
| MN | 262542. | 0. | 0. | 30.794 | 0. | 0. | 0.000 | 0. |
| MX | 315631. | 0. | 0. | 30.794 | 0. | 0. | 0.000 | 0. |
| SM | 121221072. | 0. | 0. | 13026.032 | 0. | 0. | 0.000 | 0. |
| AV | 286575. | 0. | 0. | 30.794 | 0. | 0. | 0.000 | 0. |
| MONTHLY SUMMARY (OCT) | | | | | | | | |
| MN | 268079. | -266138. | -341470. | 30.794 | -440973. | -115780. | 0.000 | 0. |
| MX | 337705. | 0. | 0. | 30.794 | 0. | 0. | 0.000 | 0. |
| SM | 129315336. | -61477900. | -17868372. | 13395.565 | -101864840. | -5735789. | 0.000 | 0. |
| AV | 297277. | -141329. | -41077. | 30.794 | -234172. | -13186. | 0.000 | 0. |
| MONTHLY SUMMARY (NOV) | | | | | | | | |
| MN | 288243. | -266138. | -449455. | 30.794 | -440973. | -150705. | 0.000 | 0. |
| MX | 344214. | -266138. | 0. | 30.794 | -440973. | 0. | 0.000 | 0. |
| SM | 129540496. | -108584344. | -75299616. | 12564.116 | -179917168. | -19693550. | 0.000 | 0. |
| AV | 317501. | -266138. | -184558. | 30.794 | -440973. | -48269. | 0.000 | 0. |
| MONTHLY SUMMARY (DEC) | | | | | | | | |
| MN | 291753. | -266138. | -477993. | 30.794 | -440973. | -207460. | 0.000 | 0. |
| MX | 365989. | -266138. | -35168. | 30.794 | -440973. | -13357. | 0.000 | 0. |
| SM | 144540800. | -116568496. | -146321856. | 13487.948 | -193146400. | -38475100. | 0.000 | 0. |
| AV | 330002. | -266138. | -334068. | 30.794 | -440974. | -87843. | 0.000 | 0. |
| YEARLY SUMMARY | | | | | | | | |
| MN | 256635. | -266138. | -477993. | 30.794 | -440973. | -346055. | 0.000 | 0. |
| MX | 381620. | 0. | 0. | 30.794 | 0. | 0. | 0.000 | 0. |
| SM | 1590273408. | -748114176. | -696948800. | 160100.094 | -1239576320. | -193940640. | 0.000 | 0. |
| AV | 305881. | -143896. | -134054. | 30.794 | -238426. | -37303. | 0.000 | 0. |

| MONTH | SITE ENERGY | | | | | | | | | | | | | SOURCE |
|-------|-----------------|--------------------|-------------------|---------------|-----------------------|--------------------|--------------------|--------------------|--------------------|------------------|------------------|-------------------|---------------------|--------|
| | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | |
| | TOTAL HEAT LOAD | TOTAL COOLING LOAD | TOTAL ELECTR LOAD | RCVRED ENERGY | WASTED RCVRABL ENERGY | FUEL INPUT COOLING | ELEC INPUT COOLING | FUEL INPUT HEATING | ELEC INPUT HEATING | FUEL INPUT ELECT | TOTAL FUEL INPUT | TOTAL SITE ENERGY | TOTAL SOURCE ENERGY | |
| JAN | 529.4 | 0.0 | 443.5 129.9E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 839.1 | 47.4 13.9E | 0.0 | 839.1 | 1282.6 | 2171.0 | |
| FEB | 457.4 | 0.0 | 391.1 114.5E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 722.5 | 40.8 11.9E | 0.0 | 722.5 | 1113.6 | 1897.0 | |
| MAR | 291.9 | 0.0 | 418.9 122.7E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 470.6 | 30.4 8.9E | 0.0 | 470.6 | 889.5 | 1728.5 | |
| APR | 111.5 | 0.0 | 381.9 111.8E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 181.3 | 15.4 4.5E | 0.0 | 181.3 | 563.2 | 1328.1 | |
| MAY | 0.0 | 0.0 | 417.8 122.4E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 0.0 | 0.0 0.0E | 0.0 | 0.0 | 417.8 | 1254.5 | |
| JUN | 0.0 | 0.0 | 476.9 139.7E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 0.0 | 0.0 0.0E | 0.0 | 0.0 | 476.9 | 1432.1 | |
| JUL | 0.0 | 0.0 | 504.6 147.8E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 0.0 | 0.0 0.0E | 0.0 | 0.0 | 504.6 | 1515.2 | |
| AUG | 0.0 | 0.0 | 510.1 149.4E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 0.0 | 0.0 0.0E | 0.0 | 0.0 | 510.1 | 1531.9 | |
| SEP | 0.0 | 0.0 | 439.3 128.6E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 0.0 | 0.0 0.0E | 0.0 | 0.0 | 439.3 | 1319.1 | |
| OCT | 54.8 | 0.0 | 408.7 119.7E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 89.5 | 7.9 2.3E | 0.0 | 89.5 | 498.2 | 1317.0 | |
| NOV | 209.9 | 0.0 | 376.1 110.2E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 341.3 | 23.9 7.0E | 0.0 | 341.3 | 717.4 | 1470.8 | |
| DEC | 462.0 | 0.0 | 431.6 126.4E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 742.5 | 44.1 12.9E | 0.0 | 742.5 | 1174.2 | 2038.7 | |
| | 2116.9 | 0.0 | 5200.5 1523.1E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 3386.9 | 209.8 61.5E | 0.0 | 3386.9 | 8587.4 | 19004.0 | |

NOTE-- ALL ENTRIES ARE IN MBTU EXCEPT
 ENTRIES FOLLOWED BY E ARE IN MWH (THOUSANDS OF KWH)

| MO | UTILITY- | ELECTRICITY | NATURAL-GAS |
|-----|--------------|-------------|-------------|
| | TOTAL (MBTU) | 443.543 | 839.087 |
| JAN | PEAK (KBTU) | 873.069 | 2788.605 |
| | DY/HR | 17/10 | 31/ 6 |
| | TOTAL (MBTU) | 391.116 | 722.484 |
| FEB | PEAK (KBTU) | 873.910 | 2977.863 |
| | DY/HR | 12/13 | 12/ 6 |
| | TOTAL (MBTU) | 418.861 | 470.636 |
| MAR | PEAK (KBTU) | 873.141 | 2412.521 |
| | DY/HR | 4/10 | 5/ 6 |
| | TOTAL (MBTU) | 381.887 | 181.343 |
| APR | PEAK (KBTU) | 872.724 | 2011.890 |
| | DY/HR | 8/11 | 9/ 6 |
| | TOTAL (MBTU) | 417.756 | 0.000 |
| MAY | PEAK (KBTU) | 1094.493 | 0.000 |
| | DY/HR | 21/17 | 31/ 1 |
| | TOTAL (MBTU) | 476.891 | 0.000 |
| JUN | PEAK (KBTU) | 1318.089 | 0.000 |
| | DY/HR | 10/16 | 30/ 1 |
| | TOTAL (MBTU) | 504.562 | 0.000 |
| JUL | PEAK (KBTU) | 1340.238 | 0.000 |
| | DY/HR | 25/14 | 31/ 1 |
| | TOTAL (MBTU) | 510.116 | 0.000 |
| AUG | PEAK (KBTU) | 1325.129 | 0.000 |
| | DY/HR | 18/17 | 31/ 1 |
| | TOTAL (MBTU) | 439.261 | 0.000 |
| SEP | PEAK (KBTU) | 1252.603 | 0.000 |
| | DY/HR | 2/14 | 30/ 1 |
| | TOTAL (MBTU) | 408.750 | 89.499 |
| OCT | PEAK (KBTU) | 1043.513 | 1615.685 |
| | DY/HR | 13/16 | 16/ 6 |
| | TOTAL (MBTU) | 376.112 | 341.316 |
| NOV | PEAK (KBTU) | 872.686 | 2265.796 |
| | DY/HR | 25/ 7 | 25/ 6 |
| | TOTAL (MBTU) | 431.620 | 742.550 |
| DEC | PEAK (KBTU) | 873.055 | 2470.307 |
| | DY/HR | 6/12 | 21/ 6 |
| | ONE YEAR | 5200.476 | 3386.915 |
| | USE/PEAK | 1340.238 | 2977.863 |

ENTECH ENGINEERING
READING, PA 19603
REPORT- PS-D PLANT LOADS SATISFIED

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
FT. GEORGE G. MEADE

DOE-2.1D 12/28/1995 15:28:25 PDL RUN 1
BUILDING 2786 - COMMISSARY
WEATHER FILE- BALTIMORE, MD

HEATING LOADS MBTU SUPPLIED PCT OF TOTAL LOAD

HW-BOILER 2116.9 100.0

LOAD SATISFIED 2116.9 100.0
TOTAL LOAD ON PLANT 2116.9

ELECTRICAL LOADS MBTU SUPPLIED PCT OF TOTAL LOAD

ELECTRICITY 5200.5 100.0

LOAD SATISFIED 5200.5 100.0
TOTAL LOAD ON PLANT 5200.4

ENTECH ENGINEERING
READING, PA 19603
REPORT- PS-D PLANT LOADS SATISFIED

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
FT. GEORGE G. MEADE

DOE-2.1D 12/28/1995 15:28:25 PDL RUN 1
BUILDING 2786 - COMMISSARY
WEATHER FILE- BALTIMORE, MD

(CONTINUED)-----

SUMMARY OF LOADS MET

| TYPE OF LOAD | TOTAL LOAD (MBTU) | LOAD SATISFIED (MBTU) | TOTAL OVERLOAD (MBTU) | PEAK OVERLOAD (MBTU) | HOURS OVERLOADED |
|------------------|-------------------------|-----------------------------|-----------------------------|----------------------------|---------------------|
| HEATING LOADS | 2116.9 | 2116.9 | 0.000 | 0.000 | 0 |
| ELECTRICAL LOADS | 5200.4 | 5200.5 | 0.000 | 0.000 | 0 |

ENTECH ENGINEERING
READING, PA 19603
REPORT- PS-D PLANT LOADS SATISFIED

EZDOR - ELITE SOFTWARE DEVELOPMENT INC
FT. GEORGE G. MEADE

DOB-2.1D 12/28/1995 15:28:25 PDL RUN 1
BUILDING 2786 - COMMISSARY
WEATHER FILE- BALTIMORE, MD
----- (CONTINUED) -----

SUMMARY OF LOADS MET

| TYPE OF LOAD | TOTAL LOAD (MBTU) | LOAD SATISFIED (MBTU) | TOTAL OVERLOAD (MBTU) | PEAK OVERLOAD (MBTU) | HOURS OVERLOADED |
|------------------|-------------------------|-----------------------------|-----------------------------|----------------------------|---------------------|
| HEATING LOADS | 2116.9 | 2116.9 | 0.000 | 0.000 | 0 |
| ELECTRICAL LOADS | 5200.4 | 5200.5 | 0.000 | 0.000 | 0 |

EQUIPMENT TOTALS

| | | | |
|-----------------------|------|-------|------|
| HW-BOILER | 97.3 | | |
| NOMINAL SIZE (MBTU) | | 3.900 | |
| NUMBER INSTALLED | | 1 | |
| FIRST COST (K\$) | 88.3 | 88.3 | |
| ANNUAL COST (K\$) | 1.1 | 1.1 | |
| CYCLICAL COST (K\$) | 7.9 | 7.9 | |
| -----TOTAL----- (K\$) | | | 97.3 |
| <hr/> | | | |
| EQUIPMENT TOTAL | 97.3 | | |

| ENERGY TYPE IN SITE MBTU - | ELECTRICITY | NATURAL-GAS |
|-------------------------------|-------------|-------------|
| CATEGORY OF USE | | |
| SPACE HEAT | 172.16 | 3386.89 |
| SPACE COOL | 562.63 | 0.00 |
| HVAC AUX | 1142.59 | 0.00 |
| DOM HOT WTR | 0.00 | 0.00 |
| AUX SOLAR | 0.00 | 0.00 |
| LIGHTS | 2481.21 | 0.00 |
| VERT TRANS | 0.00 | 0.00 |
| MISC EQUIP | 841.96 | 0.00 |
| TOTAL | 5200.55 | 3386.89 |

TOTAL SITE ENERGY 8587.39 MBTU 72.2 KBTU/SQFT-YR GROSS-AREA 72.2 KBTU/SQFT-YR NET-AREA
 TOTAL SOURCE ENERGY 19003.96 MBTU 159.9 KBTU/SQFT-YR GROSS-AREA 159.9 KBTU/SQFT-YR NET-AREA

PERCENT OF HOURS ANY SYSTEM ZONE OUTSIDE OF THROTTLING RANGE = 0.0
 PERCENT OF HOURS ANY PLANT LOAD NOT SATISFIED = 0.0

NOTE ELECTRICITY AND/OR FUEL USED TO GENERATE ELECTRICITY IS APPORTIONED BASED
 ON THE YEARLY DEMAND. ALL OTHER ENERGY TYPES ARE APPORTIONED HOURLY.

| MMDDHH | HW-BOILE R LOAD BTU/HR | HW-BOILE R ELECTRIC USE BTU/HR | HW-BOILE R FUEL USE BTU/HR |
|-----------------------|---------------------------------|--------------------------------------------|----------------------------------------|
| | ---- (1) | ---- (3) | ---- (4) |
| MONTHLY SUMMARY (JAN) | | | |
| MN | 46237. | 4069. | 75558. |
| MK | 1996311. | 85800. | 2788605. |
| SM | 529419264. | 41504788. | 839087488. |
| AV | 711585. | 55786. | 1127806. |
| MONTHLY SUMMARY (FEB) | | | |
| MN | 39445. | 3471. | 64459. |
| MK | 2162302. | 85800. | 2977863. |
| SM | 457433216. | 35402044. | 722483840. |
| AV | 680704. | 52682. | 1075125. |
| MONTHLY SUMMARY (MAR) | | | |
| MN | 14311. | 1259. | 23386. |
| MK | 1670047. | 85800. | 2412521. |
| SM | 291889792. | 24436264. | 470636640. |
| AV | 392325. | 32844. | 632576. |
| MONTHLY SUMMARY (APR) | | | |
| MN | 14311. | 1259. | 23386. |
| MK | 1327542. | 85800. | 2011890. |
| SM | 111491880. | 9642229. | 181342624. |
| AV | 154850. | 13392. | 251865. |
| MONTHLY SUMMARY (OCT) | | | |
| MN | 14311. | 1259. | 23386. |
| MK | 993730. | 85800. | 1615685. |
| SM | 54773432. | 4818414. | 89499232. |
| AV | 142639. | 12548. | 233071. |
| MONTHLY SUMMARY (NOV) | | | |
| MN | 14311. | 1259. | 23386. |
| MK | 1544017. | 85800. | 2265796. |
| SM | 209864832. | 18145312. | 341315744. |
| AV | 291479. | 25202. | 474050. |
| MONTHLY SUMMARY (DEC) | | | |
| MN | 24418. | 2149. | 39902. |
| MK | 1719874. | 85800. | 2470307. |
| SM | 462007968. | 38212404. | 742550464. |
| AV | 620978. | 51361. | 998052. |

ENTBCH ENGINEERING
READING, PA 19603
PH-1 = HOURLY-REPORT

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
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DOR-2.1D 12/28/1995
BUILDING 2786 - COMMISSARY

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| HW-BOILE R LOAD BTU/HR | HW-BOILE R ELECTRIC USE BTU/HR | HW-BOILE R FUEL USE BTU/HR |
|---------------------------------|--------------------------------------------|----------------------------------------|
| ----(1) | ----(3) | ----(4) |

YEARLY SUMMARY

| | | | |
|----|-------------|------------|-------------|
| MN | 14311. | 1259. | 23386. |
| MX | 2162302. | 85800. | 2977863. |
| SM | 2116880256. | 172161456. | 3386916096. |
| AV | 447733. | 36413. | 716353. |

BUILDING 2786
W/VENT NIGHT SETBACK - E CONDO
FILE: FTM2786J

| MMDDEH | AHU-1 | AHU-1 | AHU-1 | AHU-1 | AHU-1 | AHU-2 | AHU-2 | AHU-2 |
|-----------------------|-------------------------------|---------------------------|-------------------------------|-------------------------------|--------------------------|-------------------------------|---------------------------|--------------------------|
| | TOT HTG COIL PWR BTU/HR | COOLING ELECTRIC KW | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR | SUPPLY ELECTRIC KW | TOT HTG COIL PWR BTU/HR | COOLING ELECTRIC KW | SUPPLY ELECTRIC KW |
| | ---- (5) | ----(47) | ----(70) | ---- (78) | ----(49) | ----(5) | ----(47) | ----(49) |
| MONTHLY SUMMARY (JAN) | | | | | | | | |
| MN | -1130374. | 0.000 | 1409303. | -1251263. | 19.612 | -243145. | 0.000 | 4.171 |
| MX | 0. | 0.000 | 1807260. | -1251263. | 19.612 | 0. | 0.000 | 4.171 |
| SM | -156972976. | 0.000 | 719373120. | -563068544. | 8825.219 | -25980178. | 0.000 | 1877.084 |
| AV | -348829. | 0.000 | 1598607. | -1251263. | 19.612 | -57734. | 0.000 | 4.171 |
| MONTHLY SUMMARY (FEB) | | | | | | | | |
| MN | -1146175. | 0.000 | 1381671. | -1251263. | 19.612 | -233862. | 0.000 | 4.171 |
| MX | 0. | 0.000 | 1807260. | -1251263. | 19.612 | 0. | 0.000 | 4.171 |
| SM | -123216448. | 0.000 | 615830208. | -491746560. | 7707.358 | -20338734. | 0.000 | 1639.320 |
| AV | -313528. | 0.000 | 1566998. | -1251264. | 19.612 | -51753. | 0.000 | 4.171 |
| MONTHLY SUMMARY (MAR) | | | | | | | | |
| MN | -874086. | 0.000 | 1294808. | -1251263. | 19.612 | -162695. | 0.000 | 4.171 |
| MX | 0. | 0.000 | 1669242. | -1251263. | 19.612 | 0. | 0.000 | 4.171 |
| SM | -56786452. | 0.000 | 681274048. | -566822400. | 8884.054 | -7696564. | 0.000 | 1889.598 |
| AV | -125356. | 0.000 | 1503916. | -1251264. | 19.612 | -16990. | 0.000 | 4.171 |
| MONTHLY SUMMARY (APR) | | | | | | | | |
| MN | -622463. | 0.000 | 1307878. | -1251263. | 19.612 | -105446. | 0.000 | 4.171 |
| MX | 0. | 0.000 | 1630112. | -1251263. | 19.612 | 0. | 0.000 | 4.171 |
| SM | -13077685. | 0.000 | 637383936. | -548053376. | 8589.880 | -1159935. | 0.000 | 1827.028 |
| AV | -29858. | 0.000 | 1455215. | -1251263. | 19.612 | -2648. | 0.000 | 4.171 |
| MONTHLY SUMMARY (MAY) | | | | | | | | |
| MN | 0. | 0.000 | 1218618. | 0. | 19.612 | 0. | 0.000 | 4.171 |
| MX | 0. | 76.020 | 1568888. | 0. | 19.612 | 0. | 16.685 | 4.171 |
| SM | 0. | 11116.743 | 603183168. | 0. | 8531.045 | 0. | 2692.290 | 1814.515 |
| AV | 0. | 25.556 | 1386628. | 0. | 19.612 | 0. | 6.189 | 4.171 |
| MONTHLY SUMMARY (JUN) | | | | | | | | |
| MN | 0. | 0.000 | 1212441. | 0. | 19.612 | 0. | 0.000 | 4.171 |
| MX | 0. | 130.339 | 1472445. | 0. | 19.612 | 0. | 27.851 | 4.171 |
| SM | 0. | 25621.713 | 590364224. | 0. | 8589.880 | 0. | 5918.137 | 1827.029 |
| AV | 0. | 58.497 | 1347864. | 0. | 19.612 | 0. | 13.512 | 4.171 |
| MONTHLY SUMMARY (JUL) | | | | | | | | |
| MN | 0. | 0.000 | 1237306. | 0. | 19.612 | 0. | 0.000 | 4.171 |
| MX | 0. | 135.709 | 1482159. | 0. | 19.612 | 0. | 28.969 | 4.171 |
| SM | 0. | 31835.037 | 588926912. | 0. | 8531.045 | 0. | 7266.234 | 1814.515 |
| AV | 0. | 73.184 | 1353855. | 0. | 19.612 | 0. | 16.704 | 4.171 |

| | AHU-1 | AHU-1 | AHU-1 | AHU-1 | AHU-1 | AHU-2 | AHU-2 | AHU-2 |
|-----------------------|-------------------------------|---------------------------|-------------------------------|-------------------------------|--------------------------|-------------------------------|---------------------------|--------------------------|
| | TOT HTG COIL PWR BTU/HR | COOLING ELECTRIC KW | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR | SUPPLY ELECTRIC KW | TOT HTG COIL PWR BTU/HR | COOLING ELECTRIC KW | SUPPLY ELECTRIC KW |
| | ----(5) | ----(47) | ----(70) | ----(78) | ----(49) | ----(5) | ----(47) | ----(49) |
| MONTHLY SUMMARY (AUG) | | | | | | | | |
| MN | 0. | 0.000 | 1237030. | 0. | 19.612 | 0. | 0.000 | 4.171 |
| MX | 0. | 132.263 | 1472355. | 0. | 19.612 | 0. | 27.989 | 4.171 |
| SM | 0. | 30469.449 | 614229696. | 0. | 8884.054 | 0. | 7003.398 | 1889.598 |
| AV | 0. | 67.261 | 1355916. | 0. | 19.612 | 0. | 15.460 | 4.171 |
| MONTHLY SUMMARY (SEP) | | | | | | | | |
| MN | 0. | 0.000 | 1242917. | 0. | 19.612 | 0. | 0.000 | 4.171 |
| MX | 0. | 113.617 | 1494753. | 0. | 19.612 | 0. | 25.428 | 4.171 |
| SM | 0. | 18696.824 | 574897344. | 0. | 8295.706 | 0. | 4390.317 | 1764.459 |
| AV | 0. | 44.201 | 1359095. | 0. | 19.612 | 0. | 10.379 | 4.171 |
| MONTHLY SUMMARY (OCT) | | | | | | | | |
| MN | -374005. | 0.000 | 1267975. | -1251263. | 19.612 | -66143. | 0.000 | 4.171 |
| MX | 0. | 64.018 | 1599287. | 0. | 19.612 | 0. | 13.751 | 4.171 |
| SM | -9469885. | 6496.888 | 612710656. | -289041760. | 8531.045 | -1133358. | 1550.609 | 1814.515 |
| AV | -21770. | 14.935 | 1408530. | -664464. | 19.612 | -2605. | 3.565 | 4.171 |
| MONTHLY SUMMARY (NOV) | | | | | | | | |
| MN | -779236. | 0.000 | 1361226. | -1251263. | 19.612 | -146468. | 0.000 | 4.171 |
| MX | 0. | 0.000 | 1630112. | -1251263. | 19.612 | 0. | 0.000 | 4.171 |
| SM | -36340496. | 0.000 | 612990656. | -510515520. | 8001.532 | -3928114. | 0.000 | 1701.890 |
| AV | -89070. | 0.000 | 1502428. | -1251264. | 19.612 | -9628. | 0.000 | 4.171 |
| MONTHLY SUMMARY (DEC) | | | | | | | | |
| MN | -945868. | 0.000 | 1381671. | -1251263. | 19.612 | -181477. | 0.000 | 4.171 |
| MX | 0. | 0.000 | 1733234. | -1251263. | 19.612 | 0. | 0.000 | 4.171 |
| SM | -122532336. | 0.000 | 684460864. | -548053376. | 8589.880 | -18260660. | 0.000 | 1827.029 |
| AV | -279754. | 0.000 | 1562696. | -1251263. | 19.612 | -41691. | 0.000 | 4.171 |
| YEARLY SUMMARY | | | | | | | | |
| MN | -1146175. | 0.000 | 1212441. | -1251263. | 19.612 | -243145. | 0.000 | 4.171 |
| MX | 0. | 135.709 | 1807260. | 0. | 19.612 | 0. | 28.969 | 4.171 |
| SM | -518396352. | 124236.656 | 7535624704. | -3517301248. | 101960.695 | -78497552. | 28820.984 | 21686.580 |
| AV | -99711. | 23.896 | 1449437. | -676534. | 19.612 | -15099. | 5.544 | 4.171 |

| MDDH | AHU-2 | AHU-2 | AHU-3 | AHU-3 | AHU-3 | UH-1 | UH-1 | UH-1 |
|-----------------------|-------------------------------|-------------------------------|-------------------------------|--------------------------|-------------------------------|-------------------------------|--------------------------|-------------------------------|
| | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | HEATING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | HEATING CAPACITY BTU/HR |
| | ----(70) | ----(78) | ----(5) | ----(49) | ----(78) | ----(5) | ----(49) | ----(78) |
| MONTHLY SUMMARY (JAN) | | | | | | | | |
| MN | 297588. | -266138. | -460312. | 30.794 | -440973. | -209743. | 0.000 | 0. |
| MX | 381620. | -266138. | -65526. | 30.794 | -440973. | -21683. | 0.000 | 0. |
| SM | 151907424. | -119762144. | -162767776. | 13857.481 | -198438064. | -43700012. | 0.000 | 0. |
| AV | 337572. | -266138. | -361706. | 30.794 | -440973. | -97111. | 0.000 | 0. |
| MONTHLY SUMMARY (FEB) | | | | | | | | |
| MN | 291753. | -266138. | -476377. | 30.794 | -440973. | -346072. | 0.000 | 0. |
| MX | 381620. | -266138. | -29109. | 30.794 | -440973. | -12651. | 0.000 | 0. |
| SM | 130040784. | -104592272. | -135987664. | 12102.201 | -173302560. | -40936224. | 0.000 | 0. |
| AV | 330893. | -266138. | -346025. | 30.794 | -440973. | -104163. | 0.000 | 0. |
| MONTHLY SUMMARY (MAR) | | | | | | | | |
| MN | 273411. | -266138. | -468503. | 30.794 | -440973. | -221216. | 0.000 | 0. |
| MX | 352476. | -266138. | 0. | 30.794 | -440973. | 0. | 0.000 | 0. |
| SM | 143883952. | -120560560. | -110577928. | 13949.865 | -199760992. | -31636336. | 0.000 | 0. |
| AV | 317625. | -266138. | -244101. | 30.794 | -440974. | -69837. | 0.000 | 0. |
| MONTHLY SUMMARY (APR) | | | | | | | | |
| MN | 276171. | -266138. | -455473. | 30.794 | -440973. | -156709. | 0.000 | 0. |
| MX | 344214. | -266138. | 0. | 30.794 | -440973. | 0. | 0.000 | 0. |
| SM | 134940016. | -116568488. | -48136520. | 13487.948 | -193146384. | -13775235. | 0.000 | 0. |
| AV | 308082. | -266138. | -109901. | 30.794 | -440973. | -31450. | 0.000 | 0. |
| MONTHLY SUMMARY (MAY) | | | | | | | | |
| MN | 257323. | 0. | 0. | 30.794 | 0. | 0. | 0.000 | 0. |
| MX | 331286. | 0. | 0. | 30.794 | 0. | 0. | 0.000 | 0. |
| SM | 127251032. | 0. | 0. | 13395.565 | 0. | 0. | 0.000 | 0. |
| AV | 292531. | 0. | 0. | 30.794 | 0. | 0. | 0.000 | 0. |
| MONTHLY SUMMARY (JUN) | | | | | | | | |
| MN | 256634. | 0. | 0. | 30.794 | 0. | 0. | 0.000 | 0. |
| MX | 307837. | 0. | 0. | 30.794 | 0. | 0. | 0.000 | 0. |
| SM | 124346952. | 0. | 0. | 13487.948 | 0. | 0. | 0.000 | 0. |
| AV | 283897. | 0. | 0. | 30.794 | 0. | 0. | 0.000 | 0. |
| MONTHLY SUMMARY (JUL) | | | | | | | | |
| MN | 261269. | 0. | 0. | 30.794 | 0. | 0. | 0.000 | 0. |
| MX | 311705. | 0. | 0. | 30.794 | 0. | 0. | 0.000 | 0. |
| SM | 123957848. | 0. | 0. | 13395.565 | 0. | 0. | 0.000 | 0. |
| AV | 284961. | 0. | 0. | 30.794 | 0. | 0. | 0.000 | 0. |

| | AHU-2 | AHU-2 | AHU-3 | AHU-3 | AHU-3 | UH-1 | UH-1 | UH-1 |
|-----------------------|-------------------------------|-------------------------------|-------------------------------|--------------------------|-------------------------------|-------------------------------|--------------------------|-------------------------------|
| | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | HEATING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | HEATING CAPACITY BTU/HR |
| | ----(70) | ----(78) | ----(5) | ----(49) | ----(78) | ----(5) | ----(49) | ----(78) |
| MONTHLY SUMMARY (AUG) | | | | | | | | |
| MN | 261648. | 0. | 0. | 30.794 | 0. | 0. | 0.000 | 0. |
| MX | 308320. | 0. | 0. | 30.794 | 0. | 0. | 0.000 | 0. |
| SM | 129292520. | 0. | 0. | 13949.865 | 0. | 0. | 0.000 | 0. |
| AV | 285414. | 0. | 0. | 30.794 | 0. | 0. | 0.000 | 0. |
| MONTHLY SUMMARY (SEP) | | | | | | | | |
| MN | 262542. | 0. | 0. | 30.794 | 0. | 0. | 0.000 | 0. |
| MX | 315631. | 0. | 0. | 30.794 | 0. | 0. | 0.000 | 0. |
| SM | 121217728. | 0. | 0. | 13026.032 | 0. | 0. | 0.000 | 0. |
| AV | 286567. | 0. | 0. | 30.794 | 0. | 0. | 0.000 | 0. |
| MONTHLY SUMMARY (OCT) | | | | | | | | |
| MN | 268077. | -266138. | -341475. | 30.794 | -440973. | -115903. | 0.000 | 0. |
| MX | 337705. | 0. | 0. | 30.794 | 0. | 0. | 0.000 | 0. |
| SM | 129293872. | -61477900. | -17868968. | 13395.565 | -101864840. | -5736802. | 0.000 | 0. |
| AV | 297227. | -141329. | -41078. | 30.794 | -234172. | -13188. | 0.000 | 0. |
| MONTHLY SUMMARY (NOV) | | | | | | | | |
| MN | 288242. | -266138. | -449474. | 30.794 | -440973. | -150800. | 0.000 | 0. |
| MX | 344214. | -266138. | 0. | 30.794 | -440973. | 0. | 0.000 | 0. |
| SM | 129525568. | -108584344. | -75306240. | 12564.116 | -179917168. | -19695312. | 0.000 | 0. |
| AV | 317465. | -266138. | -184574. | 30.794 | -440973. | -48273. | 0.000 | 0. |
| MONTHLY SUMMARY (DEC) | | | | | | | | |
| MN | 291753. | -266138. | -477988. | 30.794 | -440973. | -207462. | 0.000 | 0. |
| MX | 365989. | -266138. | -35174. | 30.794 | -440973. | -13362. | 0.000 | 0. |
| SM | 144540640. | -116568496. | -146323520. | 13487.948 | -193146400. | -38478232. | 0.000 | 0. |
| AV | 330001. | -266138. | -334072. | 30.794 | -440974. | -87850. | 0.000 | 0. |
| YEARLY SUMMARY | | | | | | | | |
| MN | 256634. | -266138. | -477988. | 30.794 | -440973. | -346072. | 0.000 | 0. |
| MX | 381620. | 0. | 0. | 30.794 | 0. | 0. | 0.000 | 0. |
| SM | 1590198272. | -748114176. | -696968640. | 160100.094 | -1239576320. | -193958144. | 0.000 | 0. |
| AV | 305866. | -143896. | -134058. | 30.794 | -238426. | -37307. | 0.000 | 0. |

| S I T E E N E R G Y | | | | | | | | | | | | | |
|---------------------|-----------------------|--------------------------|-------------------------|------------------|-----------------------------|--------------------------|--------------------------|--------------------------|--------------------------|------------------------|------------------------|-------------------------|---------------------------|
| | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| MONTH | TOTAL HEAT LOAD | TOTAL COOLING LOAD | TOTAL ELECTR LOAD | RCVRED ENERGY | WASTED RCVRABL ENERGY | FUEL INPUT COOLING | ELEC INPUT COOLING | FUEL INPUT HEATING | ELEC INPUT HEATING | FUEL INPUT ELECT | TOTAL FUEL INPUT | TOTAL SITE ENERGY | TOTAL SOURCE ENERGY |
| JAN | 529.3 | 0.0 | 443.6 129.9E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 839.0 | 47.4 13.9E | 0.0 | 839.0 | 1282.6 | 2171.0 |
| FEB | 457.3 | 0.0 | 391.1 114.6E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 722.4 | 40.8 11.9E | 0.0 | 722.4 | 1113.5 | 1896.9 |
| MAR | 291.8 | 0.0 | 418.9 122.7E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 470.5 | 30.4 8.9E | 0.0 | 470.5 | 889.4 | 1728.4 |
| APR | 111.6 | 0.0 | 381.9 111.8E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 181.5 | 15.4 4.5E | 0.0 | 181.5 | 563.4 | 1328.3 |
| MAY | 0.0 | 0.0 | 415.4 121.7E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 0.0 | 0.0 0.0E | 0.0 | 0.0 | 415.4 | 1247.5 |
| JUN | 0.0 | 0.0 | 476.5 139.6E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 0.0 | 0.0 0.0E | 0.0 | 0.0 | 476.5 | 1431.1 |
| JUL | 0.0 | 0.0 | 504.4 147.7E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 0.0 | 0.0 0.0E | 0.0 | 0.0 | 504.4 | 1514.8 |
| AUG | 0.0 | 0.0 | 509.9 149.3E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 0.0 | 0.0 0.0E | 0.0 | 0.0 | 509.9 | 1531.3 |
| SEP | 0.0 | 0.0 | 438.2 128.3E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 0.0 | 0.0 0.0E | 0.0 | 0.0 | 438.2 | 1315.9 |
| OCT | 54.7 | 0.0 | 405.1 118.7E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 89.4 | 7.9 2.3E | 0.0 | 89.4 | 494.5 | 1306.1 |
| NOV | 209.8 | 0.0 | 376.1 110.2E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 341.3 | 23.9 7.0E | 0.0 | 341.3 | 717.4 | 1470.7 |
| DEC | 461.9 | 0.0 | 431.6 126.4E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 742.5 | 44.2 12.9E | 0.0 | 742.5 | 1174.1 | 2038.7 |
| ***** | 2116.4 | 0.0 | 5192.8 1520.9E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 3386.6 | 209.9 61.5E | 0.0 | 3386.6 | 8579.5 | 18980.8 |

NOTE-- ALL ENTRIES ARE IN MBTU EXCEPT
 ENTRIES FOLLOWED BY E ARE IN MWH (THOUSANDS OF KWH)

ENTECH ENGINEERING
READING, PA 19603
REPORT- PS-B MONTHLY PEAK AND TOTAL ENERGY USE

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
FT. GEORGE G. MEADE
WEATHER FILE- BALTIMORE, MD

DOB-2.1D 12/28/1995 15:37:35 PDL RUN 1
BUILDING 2786 - COMMISSARY

| MO | UTILITY- | ELECTRICITY | NATURAL-GAS |
|-----|--------------|-------------|-------------|
| | TOTAL (MBTU) | 443.555 | 839.034 |
| JAN | PEAK (KBTU) | 873.069 | 2788.600 |
| | DY/HR | 17/10 | 31/ 6 |
| | TOTAL (MBTU) | 391.126 | 722.387 |
| FEB | PEAK (KBTU) | 873.911 | 2977.913 |
| | DY/HR | 12/13 | 12/ 6 |
| | TOTAL (MBTU) | 418.862 | 470.540 |
| MAR | PEAK (KBTU) | 873.141 | 2404.731 |
| | DY/HR | 4/10 | 5/ 6 |
| | TOTAL (MBTU) | 381.897 | 181.506 |
| APR | PEAK (KBTU) | 872.725 | 1992.495 |
| | DY/HR | 8/11 | 9/ 6 |
| | TOTAL (MBTU) | 415.424 | 0.000 |
| MAY | PEAK (KBTU) | 1094.493 | 0.000 |
| | DY/HR | 21/17 | 31/ 1 |
| | TOTAL (MBTU) | 476.540 | 0.000 |
| JUN | PEAK (KBTU) | 1318.089 | 0.000 |
| | DY/HR | 10/16 | 30/ 1 |
| | TOTAL (MBTU) | 504.432 | 0.000 |
| JUL | PEAK (KBTU) | 1340.238 | 0.000 |
| | DY/HR | 25/14 | 31/ 1 |
| | TOTAL (MBTU) | 509.916 | 0.000 |
| AUG | PEAK (KBTU) | 1325.129 | 0.000 |
| | DY/HR | 18/17 | 31/ 1 |
| | TOTAL (MBTU) | 438.203 | 0.000 |
| SEP | PEAK (KBTU) | 1252.603 | 0.000 |
| | DY/HR | 2/14 | 30/ 1 |
| | TOTAL (MBTU) | 405.149 | 89.396 |
| OCT | PEAK (KBTU) | 1043.495 | 1585.456 |
| | DY/HR | 13/16 | 16/ 6 |
| | TOTAL (MBTU) | 376.104 | 341.285 |
| NOV | PEAK (KBTU) | 872.687 | 2241.357 |
| | DY/HR | 25/ 7 | 25/ 6 |
| | TOTAL (MBTU) | 431.635 | 742.495 |
| DEC | PEAK (KBTU) | 873.055 | 2469.255 |
| | DY/HR | 6/12 | 21/ 6 |
| | ONE YEAR | 5192.842 | 3386.642 |
| | USE/PEAK | 1340.238 | 2977.913 |

ENTECH ENGINEERING
READING, PA 19603
REPORT - PS-D PLANT LOADS SATISFIED

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
FT. GEORGE G. MEADE

DOE-2.1D 12/28/1995 15:37:35 PDL RUN 1
BUILDING 2786 - COMMISSARY
WEATHER FILE- BALTIMORE, MD

| HEATING LOADS | MBTU SUPPLIED | PCT OF TOTAL LOAD |
|---------------------|---------------|-------------------|
| ----- | ----- | ----- |
| HW-BOILER | 2116.4 | 100.0 |
| | ----- | ----- |
| LOAD SATISFIED | 2116.4 | 100.0 |
| TOTAL LOAD ON PLANT | 2116.4 | |
| | | |
| ELECTRICAL LOADS | MBTU SUPPLIED | PCT OF TOTAL LOAD |
| ----- | ----- | ----- |
| ELECTRICITY | 5192.8 | 100.0 |
| | ----- | ----- |
| LOAD SATISFIED | 5192.8 | 100.0 |
| TOTAL LOAD ON PLANT | 5192.8 | |

ENTECH ENGINEERING
READING, PA 19603
REPORT- PS-D PLANT LOADS SATISFIED

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
FT. GEORGE G. MEADE

DOR-2.1D 12/28/1995 15:37:35 PDL RUN 1
BUILDING 2786 - COMMISSARY
WEATHER FILE- BALTIMORE, MD
----- (CONTINUED) -----

SUMMARY OF LOADS MET

| TYPE OF LOAD | TOTAL LOAD (MBTU) | LOAD SATISFIED (MBTU) | TOTAL OVERLOAD (MBTU) | PEAK OVERLOAD (MBTU) | HOURS OVERLOADED |
|------------------|-------------------------|-----------------------------|-----------------------------|----------------------------|---------------------|
| HEATING LOADS | 2116.4 | 2116.4 | 0.000 | 0.000 | 0 |
| ELECTRICAL LOADS | 5192.8 | 5192.8 | 0.000 | 0.000 | 0 |

ENTECH ENGINEERING
READING, PA 19603
REPORT- PS-H EQUIPMENT USE STATISTICS

EZDOB - ELITE SOFTWARE DEVELOPMENT INC
FT. GEORGE G. MEADE

DOE-2.1D 12/28/1995 15:37:35 PDL RUN 1
BUILDING 2786 - COMMISSARY
WEATHER FILE- BALTIMORE, MD

| EQUIPMENT | AVG | MAX | MON | | ----- | | ----- | | ----- | | ----- | | ----- | |
|-----------|-------|--------|-------|-------|--------|-------|--------|------|--------|------|--------|------|--------|------|
| | OPER | LOAD | DAY | HR | SIZE | OPER | SIZE | OPER | SIZE | OPER | SIZE | OPER | SIZE | OPER |
| ----- | RATIO | (MBTU) | ----- | ----- | (MBTU) | HRS | (MBTU) | HRS | (MBTU) | HRS | (MBTU) | HRS | (MBTU) | HRS |
| HW-BOILER | 0.115 | 2.162 | 2 | 12 | 6 | 3.900 | 4728 | | | | | | | |

EQUIPMENT TOTALS

| | | | |
|-----------------------|------|-------|------|
| HW-BOILER | 97.3 | | |
| NOMINAL SIZE (MBTU) | | 3.900 | |
| NUMBER INSTALLED | | | 1 |
| FIRST COST (K\$) | 88.3 | | 88.3 |
| ANNUAL COST (K\$) | 1.1 | | 1.1 |
| CYCLICAL COST (K\$) | 7.9 | | 7.9 |
| -----TOTAL----- (K\$) | | | 97.3 |
| <hr/> | | | |
| EQUIPMENT TOTAL | 97.3 | | |

| ENERGY TYPE IN SITE MBTU - | ELECTRICITY | NATURAL-GAS |
|-------------------------------|-------------|-------------|
| CATEGORY OF USE | | |
| SPACE HEAT | 172.21 | 3386.62 |
| SPACE COOL | 554.96 | 0.00 |
| HVAC AUX | 1142.57 | 0.00 |
| DOM HOT WTR | 0.00 | 0.00 |
| AUX SOLAR | 0.00 | 0.00 |
| LIGHTS | 2481.20 | 0.00 |
| VERT TRANS | 0.00 | 0.00 |
| MISC EQUIP | 841.96 | 0.00 |
| TOTAL | 5192.90 | 3386.62 |

TOTAL SITE ENERGY 8579.48 MBTU 72.2 KBTU/SQFT-YR GROSS-AREA 72.2 KBTU/SQFT-YR NET-AREA
 TOTAL SOURCE ENERGY 18980.76 MBTU 159.7 KBTU/SQFT-YR GROSS-AREA 159.7 KBTU/SQFT-YR NET-AREA

PERCENT OF HOURS ANY SYSTEM ZONE OUTSIDE OF THROTTLING RANGE = 0.0
 PERCENT OF HOURS ANY PLANT LOAD NOT SATISFIED = 0.0

NOTE ELECTRICITY AND/OR FUEL USED TO GENERATE ELECTRICITY IS APPORTIONED BASED
 ON THE YEARLY DEMAND. ALL OTHER ENERGY TYPES ARE APPORTIONED HOURLY.

| MMDDHH | HW-BOILE R LOAD BTU/HR | HW-BOILE R ELECTRIC USE BTU/HR | HW-BOILE R FUEL USE BTU/HR |
|-----------------------|---------------------------------|--------------------------------------------|----------------------------------------|
| | ---- (1) | ---- (3) | ---- (4) |
| MONTHLY SUMMARY (JAN) | | | |
| MN | 46241. | 4069. | 75564. |
| MX | 1996307. | 85800. | 2788600. |
| SM | 529319168. | 41516372. | 839033536. |
| AV | 711451. | 55802. | 1127733. |
| MONTHLY SUMMARY (FEB) | | | |
| MN | 39450. | 3472. | 64467. |
| MX | 2162346. | 85800. | 2977913. |
| SM | 457304032. | 35412028. | 722386432. |
| AV | 680512. | 52696. | 1074980. |
| MONTHLY SUMMARY (MAR) | | | |
| MN | 14311. | 1259. | 23386. |
| MX | 1663338. | 85800. | 2404731. |
| SM | 291801888. | 24437534. | 470540032. |
| AV | 392207. | 32846. | 632446. |
| MONTHLY SUMMARY (APR) | | | |
| MN | 14311. | 1259. | 23386. |
| MX | 1311089. | 85800. | 1992495. |
| SM | 111586392. | 9652111. | 181505248. |
| AV | 154981. | 13406. | 252091. |
| MONTHLY SUMMARY (OCT) | | | |
| MN | 14311. | 1259. | 23386. |
| MX | 970209. | 85378. | 1585456. |
| SM | 54705524. | 4814087. | 89396472. |
| AV | 142462. | 12537. | 232803. |
| MONTHLY SUMMARY (NOV) | | | |
| MN | 14311. | 1259. | 23386. |
| MX | 1523092. | 85800. | 2241357. |
| SM | 209814976. | 18150828. | 341284800. |
| AV | 291410. | 25209. | 474007. |
| MONTHLY SUMMARY (DEC) | | | |
| MN | 24424. | 2149. | 39912. |
| MX | 1718966. | 85800. | 2469255. |
| SM | 461898240. | 38226960. | 742495360. |
| AV | 620831. | 51380. | 997978. |

ENTECH ENGINEERING
READING, PA 19603
PH-1 - HOURLY-REPORT

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
FT. GEORGE G. MEADE

DOE-2.1D 12/28/1995 15:37:35 PDL RUN 1
BUILDING 2786 - COMMISSARY

PAGE 2- 1

HW-BOILE HW-BOILE HW-BOILE
R R R
LOAD ELECTRIC FUEL
USE USE
BTU/HR BTU/HR BTU/HR
---- (1) ---- (3) ---- (4)

YEARLY SUMMARY

| | | | |
|----|-------------|------------|-------------|
| MN | 14311. | 1259. | 23386. |
| MX | 2162346. | 85800. | 2977913. |
| SM | 2116430336. | 172209920. | 3386641920. |
| AV | 447638. | 36423. | 716295. |

FT. MEADE, MARYLAND

Building: 2789

Square feet 8,998

| Exterior Wall | |
|-----------------|-------------|
| Components | R-Value |
| Outside Surface | 0.17 |
| Brick | 0.44 |
| Air Space | 1.10 |
| Concrete Block | 1.72 |
| Inside Surface | 0.68 |
| | |
| | |
| | |
| Total R-Value | 4.11 |
| Total U-Value | 0.24 |

| Exterior Roof | |
|---------------------|--------------|
| Components | R-Value |
| Outside Surface | 0.17 |
| Built-up Roof | 0.33 |
| 2" Insulation Rigid | 12.00 |
| Metal Deck | 0.00 |
| Air Space | 1.10 |
| Acoustical Tile | 1.89 |
| Inside Surface | 0.61 |
| | |
| | |
| Total R-Value | 16.10 |
| Total U-Value | 0.06 |

| Calculated Total Area | |
|------------------------------|------|
| No. of Floors | 1 |
| Avg. Floor to Floor Height | 15 |
| No. of Basement Levels | |
| Gross Floor Area | 9000 |
| Roof Area | 9000 |
| Estimated Infiltration (cfm) | 1350 |
| Gross Wall Area | 4545 |
| Door Area | 300 |
| Gross Window Area | 260 |
| Other | |
| Net Wall Area | 3985 |

| Window and Door | |
|-----------------------------|---------|
| | U-Value |
| Window Single Pane W/Storm | 0.60 |
| Window Single Pane Wo/Storm | 1.00 |
| Window Double Pane | 0.55 |
| Skylight | |
| Glass Block | |
| Other | |
| Door Type 1 | 1.00 |
| Door Type 2 | |
| Door Type 3 | |

$$UoAo = (3985 \cdot 0.24) + (9000 \cdot 0.06) + (300 \cdot 1.0) + (260 \cdot 0.6) = 2,004$$



**FT. MEADE, MARYLAND
EQUIPMENT SCHEDULE**

BUILDING NO. 2789

Page 1 of 1

| EQUIPMENT | SYSTEM NUMBER | | | | | | | |
|------------------------------|----------------------------------|-----------|--------|---|---|---|---|---|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| Equipment Name | AHU-1 | AHU-2 | Boiler | | | | | |
| COOLING: | | | | | | | | |
| Type of Cooling | 1 | 1 | | | | | | |
| Air Side | 1 | 1 | | | | | | |
| Location in Building | Bldg Front | Bldg Rear | | | | | | |
| Area Sq. Feet | 4500 | 4500 | | | | | | |
| Supply CFM | 3800 | 5100 | | | | | | |
| Supply Fan HP | 2 | 3 | | | | | | |
| O.A. CFM or % | 20% | 20% | | | | | | |
| Return CFM | | | | | | | | |
| Return Fan HP | | | | | | | | |
| Chiller Tonnage | 20 | 20 | | | | | | |
| Tower or Condenser Fan HP | | | | | | | | |
| Condenser Pump HP | | | | | | | | |
| Chilled Water Pump HP | | | | | | | | |
| HEATING: | | | | | | | | |
| Type of Heating | | | 1 | | | | | |
| Source | | | 1 | | | | | |
| MBTUH | | | 500 | | | | | |
| Hot Water Pump HP | | | 1/2 | | | | | |
| Condensate Pump HP | | | | | | | | |
| ADDITIONAL: | | | | | | | | |
| Aux. HP Cooling | | | | | | | | |
| Aux. HP Heating | | | | | | | | |
| Operating Schedule Hrs./Week | | | | | | | | |
| Type of Cooling | Type of Heating | | | | | | | |
| (1) Air Cooled DX | (1) Boiler Hot Water | | | | | | | |
| (2) Water Cooled DX | (2) Boiler Steam | | | | | | | |
| (3) Air Cooled Chiller | (3) Steam to Hot Water Converter | | | | | | | |
| Air Side | Heating Source | | | | | | | |
| (1) Single Zone | (1) Natural Gas | | | | | | | |
| (2) Multi-Zone | (2) Central Plant Steam | | | | | | | |
| (3) VAV | (3) Central Plant Hot Water | | | | | | | |

EMCS Annual Energy Savings Summary Report

```

=====
Base: FTMEADE
Building: 2789
Case: 1
Description: POST OFFICE
-----
Fuel Type: Natural gas (methane)
Heating Value: 1,031      Btu/cf
=====
    
```

Caution

```

=====
The ESA program makes no attempt to exclude incompatible strategies.
It is the user's responsibility to select all appropriate strategies.
=====
    
```

Annual Energy Savings Table for Single Zone DX-A/C

```

=====
Description: AHU-1
=====
Strategy                MBtu/yr      kWh/yr      kW   mh/yr
=====
Day/Night Setback       34.482      256         0.0   0
Vent/Recirculation      11.344      0           0.0   0
Run Time Recording      0.000      0           0.0   2
Safety Alarm            0.000      0           0.0   2
-----
Subtotals                45.825      256         0.0   4
Heating Value /         1,031 Btu/cf
=====
Totals                  44,448      256         0.0   4
                        cf /yr      kWh/yr      kW   mh/yr
=====
    
```

Annual Energy Savings Table for Single Zone DX-A/C

Description: AHU-2

| Strategy | MBtu/yr | kWh/yr | kW | mh/yr |
|--------------------|------------------|---------------|-----------|------------|
| Day/Night Setback | 34.482 | 256 | 0.0 | 0 |
| Vent/Recirculation | 11.344 | 0 | 0.0 | 0 |
| Run Time Recording | 0.000 | 0 | 0.0 | 2 |
| Safety Alarm | 0.000 | 0 | 0.0 | 2 |
| Subtotals | 45.825 | 256 | 0.0 | 4 |
| Heating Value / | 1,031 Btu/cf | | | |
| Totals | 44,448 cf /yr | 256 kWh/yr | 0.0 kW | 4 mh/yr |

Annual Energy Savings Table for Hot Water Boiler

Description: HOT WATER BOILER

| Strategy | MBtu/yr | kWh/yr | kW | mh/yr |
|--------------------|------------------|-------------|-----------|------------|
| Hot Water OA Reset | 37.500 | 0 | 0.0 | 0 |
| Run Time Recording | 0.000 | 0 | 0.0 | 2 |
| Safety Alarm | 0.000 | 0 | 0.0 | 2 |
| Subtotals | 37.500 | 0 | 0.0 | 4 |
| Heating Value / | 1,031 Btu/cf | | | |
| Totals | 36,372 cf /yr | 0 kWh/yr | 0.0 kW | 4 mh/yr |

Annual Energy Savings Table for Air Cooled DX Compressor

| Description: CONDENSERS | | | | |
|-------------------------|---------|--------|-----|-------|
| Strategy | MBtu/yr | kWh/yr | kW | mh/yr |
| Scheduled Start/Stop | 0.000 | 589 | 0.0 | 0 |
| Duty Cycling | 0.000 | 1,117 | 0.0 | 0 |
| Demand Limiting | 0.000 | 0 | 0.3 | 0 |
| Run Time Recording | 0.000 | 0 | 0.0 | 2 |
| Safety Alarm | 0.000 | 0 | 0.0 | 2 |
| Totals | 0.000 | 1,706 | 0.3 | 4 |
| | MBtu/yr | kWh/yr | kW | mh/yr |

Annual Energy Savings Table for Lighting Control

| Description: LIGHTING | | | | |
|-----------------------|---------|--------|-----|-------|
| Strategy | MBtu/yr | kWh/yr | kW | mh/yr |
| Lighting Control | 0.000 | 70,720 | 0.0 | 0 |
| Totals | 0.000 | 70,720 | 0.0 | 0 |
| | MBtu/yr | kWh/yr | kW | mh/yr |

EMCS Annual Energy Savings for Building 2789

| Description | Value | Units |
|-----------------------------|---------|--------|
| Natural gas (methane) | 125,268 | cf /yr |
| Electrical Energy | 72,938 | kWh/yr |
| Electrical Demand Reduction | 0.3 | kW |
| Labor Savings | 16 | mh/yr |

FT. MEADE, MARYLAND

Building: 2790

Square feet 78,343

| Exterior Wall | |
|---------------------|-------------|
| Components | R-Value |
| Outside Surface | 0.17 |
| Brick | 0.44 |
| Concrete Block | 1.72 |
| 1" Rigid Insulation | 6.00 |
| Gyp Board | 0.56 |
| Inside Surface | 0.68 |
| | |
| | |
| Total R-Value | 9.57 |
| Total U-Value | 0.10 |

| Exterior Roof | |
|---------------------|--------------|
| Components | R-Value |
| Outside Surface | 0.17 |
| Built-up Roof | 0.33 |
| Metal Deck | 0.00 |
| 2" Rigid Insulation | 12.00 |
| Air Space | 1.11 |
| Acoustical Tile Clg | 1.89 |
| Inside Surface | 0.61 |
| | |
| Total R-Value | 16.11 |
| Total U-Value | 0.06 |

| Calculated Total Area | |
|------------------------------|-------|
| No. of Floors | 1 |
| Avg. Floor to Floor Height | 20 |
| No. of Basement Levels | |
| Gross Floor Area | 78343 |
| Roof Area | 78343 |
| Estimated Infiltration (cfm) | 11500 |
| Gross Wall Area | 37812 |
| Door Area | |
| Gross Window Area | 1310 |
| Other | |
| Net Wall Area | 36502 |

| Window and Door | |
|-----------------------------|---------|
| | U-Value |
| Window Single Pane W/Storm | |
| Window Single Pane Wc/Storm | |
| Window Double Pane | 0.55 |
| Skylight | |
| Glass Block | |
| Other | |
| Door Type 1 | |
| Door Type 2 | |
| Door Type 3 | |

**FT. MEADE, MARYLAND
EQUIPMENT SCHEDULE**

BUILDING NO. 2790

Page 2 of 2

| EQUIPMENT | SYSTEM NUMBER | | | | | | | |
|----------------------------------|---------------|---|---|---|---|---|---|---|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| Equipment Name | AC-22-25 | | | | | | | |
| COOLING: | | | | | | | | |
| Type of Cooling | 1 | | | | | | | |
| Air Side | 1 | | | | | | | |
| Location in Building | PX | | | | | | | |
| Area Sq. Feet | 3528 | | | | | | | |
| Supply CFM | 2250 | | | | | | | |
| Supply Fan HP | 3 | | | | | | | |
| O.A. CFM or % | 200 | | | | | | | |
| Return CFM | | | | | | | | |
| Return Fan HP | | | | | | | | |
| Chiller Tonnage | 5 | | | | | | | |
| Tower or Condenser Fan HP | | | | | | | | |
| Condenser Pump HP | | | | | | | | |
| Chilled Water Pump HP | | | | | | | | |
| HEATING: | | | | | | | | |
| Type of Heating | | | | | | | | |
| Source | 1 | | | | | | | |
| MBTUH | | | | | | | | |
| Hot Water Pump HP | | | | | | | | |
| Condensate Pump HP | | | | | | | | |
| ADDITIONAL: | | | | | | | | |
| Aux. HP Cooling | | | | | | | | |
| Aux. HP Heating | | | | | | | | |
| Operating Schedule Hrs./Week | | | | | | | | |
| Type of Cooling | | | | | | | | |
| (1) Air Cooled DX | | | | | | | | |
| (2) Water Cooled DX | | | | | | | | |
| (3) Air Cooled Chiller | | | | | | | | |
| Air Side | | | | | | | | |
| (4) VAV w/ Reheat | | | | | | | | |
| (5) Constant Volume Reheat | | | | | | | | |
| (6) Heating and Ventilating | | | | | | | | |
| Type of Heating | | | | | | | | |
| (1) Boiler Hot Water | | | | | | | | |
| (2) Boiler Steam | | | | | | | | |
| (3) Steam to Hot Water Converter | | | | | | | | |
| Heating Source | | | | | | | | |
| (1) Natural Gas | | | | | | | | |
| (2) Central Plant Steam | | | | | | | | |
| (3) Central Plant Hot Water | | | | | | | | |
| (4) Oil | | | | | | | | |
| (5) Electric | | | | | | | | |

**FT. MEADE, MARYLAND
EQUIPMENT SCHEDULE**

BUILDING NO. 2790

Page 1 of 2

| EQUIPMENT | SYSTEM NUMBER | | | | | | | |
|------------------------------|----------------------------------|-------------|------------|------------|------------|------------|-------------|----------------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| Equipment Name | AC-1 | AC-2 | AC-3 | AC-4 | AC-5 | AC-6-12 | AC-13-16,19 | AC,17,18,19,20 |
| COOLING: | | | | | | | | |
| Type of Cooling | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Air Side | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Location in Building | Minute Mart | Minute Mart | Food Court | Food Court | Food Court | Food Court | PX | PX |
| Area Sq. Feet | 7500 | 7500 | 1520 | 1520 | 1520 | 1520 | 1260 | 3528 |
| Supply CFM | 7120 | 8080 | 4300 | 10000 | 5230 | 6240 | 2000 | 3000 |
| Supply Fan HP | 7 1/2 | 5 | 1 1/2 | 1 | 1 | 1 | 2 | 5 |
| O.A. CFM or % | 1580 | 1500 | 4300 | 1800 | 640 | 785 | 150 | 350 |
| Return CFM | | | | | | | | |
| Return Fan HP | | | | | | | | |
| Chiller Tonnage | 16 | 20 | 23 | 24 | 10 | 15 | 5 | 8 |
| Tower or Condenser Fan HP | | | | | | | | |
| Condenser Pump HP | | | | | | | | |
| Chilled Water Pump HP | | | | | | | | |
| HEATING: | | | | | | | | |
| Type of Heating | | | | | | | | |
| Source | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| MBTUH | | | | | | | | |
| Hot Water Pump HP | | | | | | | | |
| Condensate Pump HP | | | | | | | | |
| ADDITIONAL: | | | | | | | | |
| Aux. HP Cooling | | | | | | | | |
| Aux. HP Heating | | | | | | | | |
| Operating Schedule Hrs./Week | | | | | | | | |
| Type of Cooling | Type of Heating | | | | | | | |
| (1) Air Cooled DX | (1) Boiler Hot Water | | | | | | | |
| (2) Water Cooled DX | (2) Boiler Steam | | | | | | | |
| (3) Air Cooled Chiller | (3) Steam to Hot Water Converter | | | | | | | |
| | Air Side | | | | | | | |
| (1) Single Zone | (4) VAV w/ Reheat | | | | | | | |
| (2) Multi-Zone | (5) Constant Volume Reheat | | | | | | | |
| (3) VAV | (6) Heating and Ventilating | | | | | | | |
| | Heating Source | | | | | | | |
| | (1) Natural Gas | | | | | | | |
| | (2) Central Plant Steam | | | | | | | |
| | (3) Central Plant Hot Water | | | | | | | |
| | (4) Furnace | | | | | | | |
| | (4) Oil | | | | | | | |
| | (5) Electric | | | | | | | |

**UMCS FEASIBILITY STUDY
FORT MEADE
BUILDING 2790 - POST EXCHANGE
DOE ENERGY SAVINGS SUMMARY**

| | Space Heat | | Space Cool | | HVAC Aux | | Lights | | Misc Equip | | TOTAL | | TOTAL | |
|---------------------------------------------------|----------------------|----------------------|----------------------|---------|----------------------|-------|----------------------|---------|----------------------|---------|--------------------|--------------------|--------------------|--------------------|
| | Electricity mmBtu | Natural Gas mmBtu | Electricity mmBtu | mmBtu | Electricity mmBtu | mmBtu | Electricity mmBtu | mmBtu | Electricity mmBtu | mmBtu | Electricity Kwh | Natural Gas MCF | Electricity Kwh | Natural Gas MCF |
| Existing | | 5,113.3 | 879.7 | 1,222.6 | 2,778.5 | 396.2 | 5,276.9 | 5,113.3 | 1,546,124 | 4,959.5 | | | | |
| New w/Night Setback | | 3,131.8 | 775.9 | 784.3 | 2,778.5 | 396.2 | 4,734.9 | 3,131.8 | 1,387,313 | 3,037.6 | | | | |
| Night Setback Savings | | | | | | | 542.0 | 1,981.5 | 158,810 | 1,921.9 | | | | |
| New w/Night Setback and Vent/Recirc | | 2,869.3 | 777.9 | 781.9 | 2,778.5 | 396.2 | 4,734.5 | 2,869.3 | 1,387,181 | 2,783.1 | | | | |
| Vent/Recirc Savings | | | | | | | 0.4 | 262.4 | 132 | 254.6 | | | | |
| New w/Night Setback & Vent/Recirc & Economizer | | 1,634.8 | 734.0 | 782.0 | 2,778.5 | 396.2 | 4,690.6 | 1,634.8 | 1,374,333 | 1,585.7 | | | | |
| Economizer Savings | | | | | | | 43.9 | 1,234.5 | 12,848 | 1,197.4 | | | | |

| MMDDHH | AC-17 | AC-17 | AC-17 | AC-17 | AC-17 | AC-18 | AC-18 | AC-18 |
|-----------------------|---------------------------|--------------------------|--------------------------|-------------------------------|-------------------------------|--------------------------|---------------------------|--------------------------|
| | COOLING ELECTRIC KW | SUPPLY ELECTRIC KW | HEATING GAS BTU/HR | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR | HEATING GAS BTU/HR | COOLING ELECTRIC KW | SUPPLY ELECTRIC KW |
| | ---- (47) | ---- (49) | ---- (45) | ---- (70) | ---- (78) | ---- (45) | ---- (47) | ---- (49) |
| MONTHLY SUMMARY (JAN) | | | | | | | | |
| MN | 0.000 | 2.165 | 1600. | 131833. | -182915. | 1600. | 0.000 | 2.106 |
| MX | 0.007 | 2.165 | 134779. | 169898. | -182915. | 118337. | 0.001 | 2.106 |
| SM | 0.026 | 1610.982 | 33992348. | 112594256. | -136088736. | 25816714. | 0.001 | 1567.087 |
| AV | 0.000 | 2.165 | 45689. | 151336. | -182915. | 34700. | 0.000 | 2.106 |
| MONTHLY SUMMARY (FEB) | | | | | | | | |
| MN | 0.000 | 2.165 | 1600. | 130534. | -182915. | 1600. | 0.000 | 2.106 |
| MX | 0.019 | 2.165 | 135178. | 169898. | -182915. | 118222. | 0.042 | 2.106 |
| SM | 0.019 | 1455.081 | 28055404. | 99931416. | -122918864. | 21674042. | 0.104 | 1415.433 |
| AV | 0.000 | 2.165 | 41749. | 148707. | -182915. | 32253. | 0.000 | 2.106 |
| MONTHLY SUMMARY (MAR) | | | | | | | | |
| MN | 0.000 | 2.165 | 1600. | 121723. | -182915. | 1600. | 0.000 | 2.106 |
| MX | 0.034 | 2.165 | 98102. | 157666. | -182915. | 85132. | 0.019 | 2.106 |
| SM | 0.086 | 1610.982 | 15717515. | 106543432. | -136088736. | 10822541. | 0.043 | 1567.087 |
| AV | 0.000 | 2.165 | 21126. | 143204. | -182915. | 14546. | 0.000 | 2.106 |
| MONTHLY SUMMARY (APR) | | | | | | | | |
| MN | 0.000 | 2.165 | 1600. | 123570. | -182915. | 1600. | 0.000 | 2.106 |
| MX | 3.418 | 2.165 | 81986. | 153244. | -182915. | 68570. | 4.356 | 2.106 |
| SM | 45.319 | 1559.015 | 5987736. | 99779808. | -131698784. | 3766426. | 109.633 | 1516.536 |
| AV | 0.063 | 2.165 | 8316. | 138583. | -182915. | 5231. | 0.152 | 2.106 |
| MONTHLY SUMMARY (MAY) | | | | | | | | |
| MN | 0.000 | 2.165 | 1600. | 114560. | -182915. | 1600. | 0.000 | 2.106 |
| MX | 8.808 | 2.165 | 73282. | 148199. | -182915. | 63100. | 8.801 | 2.106 |
| SM | 1585.779 | 1610.982 | 6662201. | 98319360. | -136088736. | 5485239. | 1692.692 | 1567.087 |
| AV | 2.131 | 2.165 | 8955. | 132150. | -182915. | 7373. | 2.275 | 2.106 |
| MONTHLY SUMMARY (JUN) | | | | | | | | |
| MN | 0.000 | 2.165 | 1600. | 115327. | -182915. | 1600. | 0.000 | 2.106 |
| MX | 12.800 | 2.165 | 26477. | 142339. | -182915. | 21886. | 12.496 | 2.106 |
| SM | 3234.184 | 1559.015 | 1850723. | 93578688. | -131698784. | 1641665. | 3251.267 | 1516.536 |
| AV | 4.492 | 2.165 | 2570. | 129970. | -182915. | 2280. | 4.516 | 2.106 |
| MONTHLY SUMMARY (JUL) | | | | | | | | |
| MN | 0.000 | 2.165 | 1600. | 116908. | -182915. | 1600. | 0.000 | 2.106 |
| MX | 12.878 | 2.165 | 10383. | 145769. | -182915. | 7441. | 12.549 | 2.106 |
| SM | 4033.439 | 1610.982 | 1241136. | 97971472. | -136088736. | 1209860. | 3997.184 | 1567.087 |
| AV | 5.421 | 2.165 | 1668. | 131682. | -182915. | 1626. | 5.373 | 2.106 |

| | AC-17 | AC-17 | AC-17 | AC-17 | AC-17 | AC-18 | AC-18 | AC-18 |
|------------------------------|---------------------------|--------------------------|--------------------------|-------------------------------|-------------------------------|--------------------------|---------------------------|--------------------------|
| | COOLING ELECTRIC KW | SUPPLY ELECTRIC KW | HEATING GAS BTU/HR | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR | HEATING GAS BTU/HR | COOLING ELECTRIC KW | SUPPLY ELECTRIC KW |
| | ---- (47) | ---- (49) | ---- (45) | ---- (70) | ---- (78) | ---- (45) | ---- (47) | ---- (49) |
| MONTHLY SUMMARY (AUG) | | | | | | | | |
| MN | 0.000 | 2.165 | 1600. | 117011. | -182915. | 1600. | 0.000 | 2.106 |
| MX | 13.005 | 2.165 | 34751. | 143266. | -182915. | 30870. | 12.692 | 2.106 |
| SM | 3860.124 | 1610.982 | 1697385. | 98163288. | -136088736. | 1552077. | 3856.527 | 1567.087 |
| AV | 5.188 | 2.165 | 2281. | 131940. | -182915. | 2086. | 5.184 | 2.106 |
| MONTHLY SUMMARY (SEP) | | | | | | | | |
| MN | 0.000 | 2.165 | 1600. | 118532. | -182915. | 1600. | 0.000 | 2.106 |
| MX | 11.878 | 2.165 | 41181. | 145351. | -182915. | 34290. | 11.675 | 2.106 |
| SM | 2496.941 | 1559.015 | 3231213. | 94298336. | -131698784. | 2686033. | 2550.479 | 1516.536 |
| AV | 3.468 | 2.165 | 4488. | 130970. | -182915. | 3731. | 3.542 | 2.106 |
| MONTHLY SUMMARY (OCT) | | | | | | | | |
| MN | 0.000 | 2.165 | 1600. | 118097. | -182915. | 1600. | 0.000 | 2.106 |
| MX | 7.587 | 2.165 | 67549. | 150347. | -182915. | 58895. | 7.745 | 2.106 |
| SM | 989.433 | 1610.982 | 7928901. | 100166456. | -136088736. | 6216482. | 1097.491 | 1567.087 |
| AV | 1.330 | 2.165 | 10657. | 134632. | -182915. | 8355. | 1.475 | 2.106 |
| MONTHLY SUMMARY (NOV) | | | | | | | | |
| MN | 0.000 | 2.165 | 1600. | 129246. | -182915. | 1600. | 0.000 | 2.106 |
| MX | 5.506 | 2.165 | 80239. | 158959. | -182915. | 71404. | 5.896 | 2.106 |
| SM | 86.181 | 1559.015 | 12948151. | 102756056. | -131698784. | 8887927. | 110.693 | 1516.536 |
| AV | 0.120 | 2.165 | 17984. | 142717. | -182915. | 12344. | 0.154 | 2.106 |
| MONTHLY SUMMARY (DEC) | | | | | | | | |
| MN | 0.000 | 2.165 | 1600. | 132849. | -182915. | 1600. | 0.000 | 2.106 |
| MX | 0.051 | 2.165 | 109116. | 162939. | -182915. | 95070. | 0.032 | 2.106 |
| SM | 0.133 | 1610.982 | 27601750. | 110375760. | -136088736. | 20528826. | 0.076 | 1567.087 |
| AV | 0.000 | 2.165 | 37099. | 148355. | -182915. | 27593. | 0.000 | 2.106 |
| YEARLY SUMMARY | | | | | | | | |
| MN | 0.000 | 2.165 | 1600. | 114560. | -182915. | 1600. | 0.000 | 2.106 |
| MX | 13.005 | 2.165 | 135178. | 169898. | -182915. | 118337. | 12.692 | 2.106 |
| SM | 16331.666 | 18968.020 | 146914464. | 1214478336. | -1602335104. | 110287824. | 16666.191 | 18451.184 |
| AV | 1.864 | 2.165 | 16771. | 138639. | -182915. | 12590. | 1.903 | 2.106 |

| MMDDHH | AC-18 | AC-18 | AC-19 | AC-19 | AC-19 | AC-19 | AC-19 | AC-21 |
|-----------------------|-------------------------------|-------------------------------|--------------------------|---------------------------|--------------------------|-------------------------------|-------------------------------|--------------------------|
| | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR | HEATING GAS BTU/HR | COOLING ELECTRIC KW | SUPPLY ELECTRIC KW | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR | HEATING GAS BTU/HR |
| | ---- (70) | ---- (78) | ---- (45) | ---- (47) | ---- (49) | ---- (70) | ---- (78) | ---- (45) |
| MONTHLY SUMMARY (JAN) | | | | | | | | |
| MN | 128440. | -177931. | 1600. | 0.000 | 2.106 | 128440. | -177931. | 1600. |
| MX | 165524. | -177931. | 118337. | 0.001 | 2.106 | 165524. | -177931. | 135462. |
| SM | 109699128. | -132380472. | 25816714. | 0.001 | 1567.087 | 109699128. | -132380472. | 33656308. |
| AV | 147445. | -177931. | 34700. | 0.000 | 2.106 | 147445. | -177931. | 45237. |
| MONTHLY SUMMARY (FEB) | | | | | | | | |
| MN | 127174. | -177931. | 1600. | 0.000 | 2.106 | 127174. | -177931. | 1600. |
| MX | 165524. | -177931. | 118222. | 0.042 | 2.106 | 165524. | -177931. | 135676. |
| SM | 97368208. | -119569464. | 21674042. | 0.104 | 1415.433 | 97368208. | -119569464. | 27768428. |
| AV | 144893. | -177931. | 32253. | 0.000 | 2.106 | 144893. | -177931. | 41322. |
| MONTHLY SUMMARY (MAR) | | | | | | | | |
| MN | 119187. | -177931. | 1600. | 0.000 | 2.106 | 119187. | -177931. | 1600. |
| MX | 153607. | -177931. | 85132. | 0.019 | 2.106 | 153607. | -177931. | 98417. |
| SM | 103857024. | -132380472. | 10822541. | 0.043 | 1567.087 | 103857024. | -132380472. | 15375055. |
| AV | 139593. | -177931. | 14546. | 0.000 | 2.106 | 139593. | -177931. | 20665. |
| MONTHLY SUMMARY (APR) | | | | | | | | |
| MN | 120389. | -177931. | 1600. | 0.000 | 2.106 | 120389. | -177931. | 1600. |
| MX | 149299. | -177931. | 68570. | 4.356 | 2.106 | 149299. | -177931. | 82370. |
| SM | 97408584. | -128110136. | 3766426. | 109.633 | 1516.536 | 97408584. | -128110136. | 5875528. |
| AV | 135290. | -177931. | 5231. | 0.152 | 2.106 | 135290. | -177931. | 8160. |
| MONTHLY SUMMARY (MAY) | | | | | | | | |
| MN | 111611. | -177931. | 1600. | 0.000 | 2.106 | 111611. | -177931. | 1600. |
| MX | 144384. | -177931. | 63100. | 8.801 | 2.106 | 144384. | -177931. | 73705. |
| SM | 95738856. | -132380472. | 5485239. | 1692.692 | 1567.087 | 95738856. | -132380472. | 6628746. |
| AV | 128681. | -177931. | 7373. | 2.275 | 2.106 | 128681. | -177931. | 8910. |
| MONTHLY SUMMARY (JUN) | | | | | | | | |
| MN | 112348. | -177931. | 1600. | 0.000 | 2.106 | 112348. | -177931. | 1600. |
| MX | 138679. | -177931. | 21886. | 12.496 | 2.106 | 138679. | -177931. | 26590. |
| SM | 91117064. | -128110136. | 1641665. | 3251.267 | 1516.536 | 91117064. | -128110136. | 1837815. |
| AV | 126551. | -177931. | 2280. | 4.516 | 2.106 | 126551. | -177931. | 2553. |
| MONTHLY SUMMARY (JUL) | | | | | | | | |
| MN | 113898. | -177931. | 1600. | 0.000 | 2.106 | 113898. | -177931. | 1600. |
| MX | 142123. | -177931. | 7441. | 12.549 | 2.106 | 142123. | -177931. | 10035. |
| SM | 95425800. | -132380472. | 1209860. | 3997.184 | 1567.087 | 95425800. | -132380472. | 1239413. |
| AV | 128260. | -177931. | 1626. | 5.373 | 2.106 | 128260. | -177931. | 1666. |

| | AC-18 | AC-18 | AC-19 | AC-19 | AC-19 | AC-19 | AC-19 | AC-21 |
|-----------------------|-------------------------------|-------------------------------|--------------------------|---------------------------|--------------------------|-------------------------------|-------------------------------|--------------------------|
| | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR | HEATING GAS BTU/HR | COOLING ELECTRIC KW | SUPPLY ELECTRIC KW | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR | HEATING GAS BTU/HR |
| | ---- (70) | ---- (78) | --- (45) | --- (47) | --- (49) | --- (70) | --- (78) | --- (45) |
| MONTHLY SUMMARY (AUG) | | | | | | | | |
| MN | 114065. | -177931. | 1600. | 0.000 | 2.106 | 114065. | -177931. | 1600. |
| MX | 139586. | -177931. | 30870. | 12.692 | 2.106 | 139586. | -177931. | 34875. |
| SM | 95571792. | -132380472. | 1552077. | 3856.527 | 1567.087 | 95571792. | -132380472. | 1692983. |
| AV | 128457. | -177931. | 2086. | 5.184 | 2.106 | 128457. | -177931. | 2276. |
| MONTHLY SUMMARY (SEP) | | | | | | | | |
| MN | 115457. | -177931. | 1600. | 0.000 | 2.106 | 115457. | -177931. | 1600. |
| MX | 141406. | -177931. | 34290. | 11.675 | 2.106 | 141406. | -177931. | 40572. |
| SM | 91824552. | -128110136. | 2686033. | 2550.479 | 1516.536 | 91824552. | -128110136. | 3108459. |
| AV | 127534. | -177931. | 3731. | 3.542 | 2.106 | 127534. | -177931. | 4317. |
| MONTHLY SUMMARY (OCT) | | | | | | | | |
| MN | 115057. | -177931. | 1600. | 0.000 | 2.106 | 115057. | -177931. | 1600. |
| MX | 146476. | -177931. | 58895. | 7.745 | 2.106 | 146476. | -177931. | 66807. |
| SM | 97580248. | -132380472. | 6216482. | 1097.491 | 1567.087 | 97580248. | -132380472. | 7654722. |
| AV | 131156. | -177931. | 8355. | 1.475 | 2.106 | 131156. | -177931. | 10289. |
| MONTHLY SUMMARY (NOV) | | | | | | | | |
| MN | 125919. | -177931. | 1600. | 0.000 | 2.106 | 125919. | -177931. | 1600. |
| MX | 155621. | -177931. | 71404. | 5.896 | 2.106 | 155621. | -177931. | 80530. |
| SM | 100171064. | -128110136. | 8887927. | 110.693 | 1516.536 | 100171064. | -128110136. | 12571742. |
| AV | 139126. | -177931. | 12344. | 0.154 | 2.106 | 139126. | -177931. | 17461. |
| MONTHLY SUMMARY (DEC) | | | | | | | | |
| MN | 129715. | -177931. | 1600. | 0.000 | 2.106 | 129715. | -177931. | 1600. |
| MX | 158744. | -177931. | 95070. | 0.032 | 2.106 | 158744. | -177931. | 108988. |
| SM | 107558976. | -132380472. | 20528826. | 0.076 | 1567.087 | 107558976. | -132380472. | 27294386. |
| AV | 144569. | -177931. | 27593. | 0.000 | 2.106 | 144569. | -177931. | 36686. |
| YEARLY SUMMARY | | | | | | | | |
| MN | 111611. | -177931. | 1600. | 0.000 | 2.106 | 111611. | -177931. | 1600. |
| MX | 165524. | -177931. | 118337. | 12.692 | 2.106 | 165524. | -177931. | 135676. |
| SM | 1183321344. | -1558673152. | 110287824. | 16666.191 | 18451.184 | 1183321344. | -1558673152. | 144703584. |
| AV | 135082. | -177931. | 12590. | 1.903 | 2.106 | 135082. | -177931. | 16519. |

| MMDDHH | AC-21 | AC-21 | AC-21 | AC-21 | AC-25 | AC-25 | AC-25 | AC-25 |
|-----------------------|---------------------------|--------------------------|-------------------------------|-------------------------------|--------------------------|---------------------------|--------------------------|-------------------------------|
| | COOLING ELECTRIC KW | SUPPLY ELECTRIC KW | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR | HEATING GAS BTU/HR | COOLING ELECTRIC KW | SUPPLY ELECTRIC KW | COOLING CAPACITY BTU/HR |
| | ---- (47) | ---- (49) | ---- (70) | ---- (78) | ---- (45) | ---- (47) | ---- (49) | ---- (70) |
| MONTHLY SUMMARY (JAN) | | | | | | | | |
| MN | 0.000 | 2.189 | 133190. | -184909. | 1600. | 0.000 | 2.248 | 136583. |
| MX | 0.020 | 2.189 | 171647. | -184909. | 147269. | 0.012 | 2.248 | 176019. |
| SM | 0.020 | 1628.541 | 113753344. | -137571984. | 40305636. | 0.044 | 1672.437 | 116649432. |
| AV | 0.000 | 2.189 | 152894. | -184909. | 54174. | 0.000 | 2.248 | 156787. |
| MONTHLY SUMMARY (FEB) | | | | | | | | |
| MN | 0.000 | 2.189 | 131878. | -184909. | 1600. | 0.000 | 2.248 | 135237. |
| MX | 0.020 | 2.189 | 171647. | -184909. | 146471. | 0.037 | 2.248 | 176019. |
| SM | 0.032 | 1470.940 | 100960568. | -124258568. | 33017978. | 0.050 | 1510.588 | 103526240. |
| AV | 0.000 | 2.189 | 150239. | -184909. | 49134. | 0.000 | 2.248 | 154057. |
| MONTHLY SUMMARY (MAR) | | | | | | | | |
| MN | 0.000 | 2.189 | 122976. | -184909. | 1600. | 0.000 | 2.248 | 126108. |
| MX | 0.039 | 2.189 | 159289. | -184909. | 107774. | 0.008 | 2.248 | 163346. |
| SM | 0.085 | 1628.541 | 107643264. | -137571984. | 19471424. | 0.014 | 1672.437 | 110360736. |
| AV | 0.000 | 2.189 | 144682. | -184909. | 26171. | 0.000 | 2.248 | 148334. |
| MONTHLY SUMMARY (APR) | | | | | | | | |
| MN | 0.000 | 2.189 | 124842. | -184909. | 1600. | 0.000 | 2.248 | 127613. |
| MX | 3.627 | 2.189 | 154822. | -184909. | 91364. | 2.858 | 2.248 | 158765. |
| SM | 49.692 | 1576.007 | 100812032. | -133134184. | 7648168. | 29.764 | 1618.487 | 103226600. |
| AV | 0.069 | 2.189 | 140017. | -184909. | 10622. | 0.041 | 2.248 | 143370. |
| MONTHLY SUMMARY (MAY) | | | | | | | | |
| MN | 0.000 | 2.189 | 115740. | -184909. | 1600. | 0.000 | 2.248 | 118688. |
| MX | 8.914 | 2.189 | 149725. | -184909. | 80962. | 9.022 | 2.248 | 153539. |
| SM | 1603.356 | 1628.541 | 99328856. | -137571984. | 7633266. | 1533.348 | 1672.437 | 101902960. |
| AV | 2.155 | 2.189 | 133507. | -184909. | 10260. | 2.061 | 2.248 | 136966. |
| MONTHLY SUMMARY (JUN) | | | | | | | | |
| MN | 0.000 | 2.189 | 116517. | -184909. | 1600. | 0.000 | 2.248 | 119490. |
| MX | 12.915 | 2.189 | 143805. | -184909. | 30269. | 13.225 | 2.248 | 147787. |
| SM | 3261.498 | 1576.007 | 94535808. | -133134184. | 2029009. | 3266.604 | 1618.487 | 96996456. |
| AV | 4.530 | 2.189 | 131300. | -184909. | 2818. | 4.537 | 2.248 | 134717. |
| MONTHLY SUMMARY (JUL) | | | | | | | | |
| MN | 0.000 | 2.189 | 118111. | -184909. | 1600. | 0.000 | 2.248 | 121120. |
| MX | 13.008 | 2.189 | 147179. | -184909. | 13050. | 13.335 | 2.248 | 151000. |
| SM | 4072.302 | 1628.541 | 98967768. | -137571984. | 1274254. | 4104.737 | 1672.437 | 101540504. |
| AV | 5.474 | 2.189 | 133021. | -184909. | 1713. | 5.517 | 2.248 | 136479. |

| | AC-21 | AC-21 | AC-21 | AC-21 | AC-25 | AC-25 | AC-25 | AC-25 |
|-----------------------|---------------------------|--------------------------|-------------------------------|-------------------------------|--------------------------|---------------------------|--------------------------|-------------------------------|
| | COOLING ELECTRIC KW | SUPPLY ELECTRIC KW | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR | HEATING GAS BTU/HR | COOLING ELECTRIC KW | SUPPLY ELECTRIC KW | COOLING CAPACITY BTU/HR |
| | ----(47) | ----(49) | ----(70) | ----(78) | ----(45) | ----(47) | ----(49) | ----(70) |
| MONTHLY SUMMARY (AUG) | | | | | | | | |
| MN | 0.000 | 2.189 | 118199. | -184909. | 1600. | 0.000 | 2.248 | 121162. |
| MX | 13.141 | 2.189 | 144742. | -184909. | 37929. | 13.457 | 2.248 | 148463. |
| SM | 3914.073 | 1628.541 | 99142136. | -137571984. | 1823924. | 3917.594 | 1672.437 | 101751656. |
| AV | 5.261 | 2.189 | 133256. | -184909. | 2452. | 5.266 | 2.248 | 136763. |
| MONTHLY SUMMARY (SEP) | | | | | | | | |
| MN | 0.000 | 2.189 | 119722. | -184909. | 1600. | 0.000 | 2.248 | 122778. |
| MX | 12.077 | 2.189 | 146703. | -184909. | 46410. | 12.277 | 2.248 | 150773. |
| SM | 2554.837 | 1576.007 | 95237368. | -133134184. | 3682884. | 2496.614 | 1618.487 | 97733152. |
| AV | 3.548 | 2.189 | 132274. | -184909. | 5115. | 3.468 | 2.248 | 135740. |
| MONTHLY SUMMARY (OCT) | | | | | | | | |
| MN | 0.000 | 2.189 | 119312. | -184909. | 1600. | 0.000 | 2.248 | 122351. |
| MX | 7.802 | 2.189 | 151894. | -184909. | 74092. | 7.615 | 2.248 | 155763. |
| SM | 1028.545 | 1628.541 | 101189256. | -137571984. | 9335572. | 933.741 | 1672.437 | 103780312. |
| AV | 1.382 | 2.189 | 136007. | -184909. | 12548. | 1.255 | 2.248 | 139490. |
| MONTHLY SUMMARY (NOV) | | | | | | | | |
| MN | 0.000 | 2.189 | 130576. | -184909. | 1600. | 0.000 | 2.248 | 133250. |
| MX | 5.656 | 2.189 | 160665. | -184909. | 86803. | 5.238 | 2.248 | 164041. |
| SM | 89.513 | 1576.007 | 103819880. | -133134184. | 16270065. | 68.176 | 1618.487 | 106439040. |
| AV | 0.124 | 2.189 | 144194. | -184909. | 22597. | 0.095 | 2.248 | 147832. |
| MONTHLY SUMMARY (DEC) | | | | | | | | |
| MN | 0.000 | 2.189 | 134341. | -184909. | 1600. | 0.000 | 2.248 | 137044. |
| MX | 0.052 | 2.189 | 164616. | -184909. | 119324. | 0.011 | 2.248 | 168809. |
| SM | 0.163 | 1628.541 | 111514400. | -137571984. | 33119062. | 0.021 | 1672.437 | 114338256. |
| AV | 0.000 | 2.189 | 149885. | -184909. | 44515. | 0.000 | 2.248 | 153680. |
| YEARLY SUMMARY | | | | | | | | |
| MN | 0.000 | 2.189 | 115740. | -184909. | 1600. | 0.000 | 2.248 | 118688. |
| MX | 13.141 | 2.189 | 171647. | -184909. | 147269. | 13.457 | 2.248 | 176019. |
| SM | 16574.117 | 19174.758 | 1226904576. | -1619799296. | 175611232. | 16350.709 | 19691.598 | 1258245376. |
| AV | 1.892 | 2.189 | 140058. | -184909. | 20047. | 1.867 | 2.248 | 143635. |

| MMDDHH | AC-25 | AC-22 | AC-22 | AC-22 | AC-22 | AC-22 | AC-23 | AC-23 |
|-----------------------|-------------------------------|--------------------------|---------------------------|--------------------------|-------------------------------|-------------------------------|--------------------------|---------------------------|
| | HEATING CAPACITY BTU/HR | HEATING GAS BTU/HR | COOLING ELECTRIC KW | SUPPLY ELECTRIC KW | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR | HEATING GAS BTU/HR | COOLING ELECTRIC KW |
| | ---- (78) | ---- (45) | ---- (47) | ---- (49) | ---- (70) | ---- (78) | ---- (45) | ---- (47) |
| MONTHLY SUMMARY (JAN) | | | | | | | | |
| MN | -189893. | 1600. | 0.000 | 2.183 | 132851. | -184410. | 1600. | 0.000 |
| MX | -189893. | 130752. | 0.039 | 2.183 | 171210. | -184410. | 130752. | 0.039 |
| SM | -141280096. | 31741898. | 0.043 | 1624.151 | 113464168. | -137201232. | 31741898. | 0.043 |
| AV | -189893. | 42664. | 0.000 | 2.183 | 152506. | -184410. | 42664. | 0.000 |
| MONTHLY SUMMARY (FEB) | | | | | | | | |
| MN | -189893. | 1600. | 0.000 | 2.183 | 131542. | -184410. | 1600. | 0.000 |
| MX | -189893. | 131275. | 0.000 | 2.183 | 171210. | -184410. | 131275. | 0.000 |
| SM | -127607824. | 26257300. | 0.000 | 1466.975 | 100705472. | -123923688. | 26257300. | 0.000 |
| AV | -189893. | 39073. | 0.000 | 2.183 | 149859. | -184410. | 39073. | 0.000 |
| MONTHLY SUMMARY (MAR) | | | | | | | | |
| MN | -189893. | 1600. | 0.000 | 2.183 | 122896. | -184410. | 1600. | 0.000 |
| MX | -189893. | 94785. | 0.048 | 2.183 | 158883. | -184410. | 94785. | 0.048 |
| SM | -141280096. | 14175983. | 0.107 | 1624.151 | 107382200. | -137201232. | 14175983. | 0.107 |
| AV | -189893. | 19054. | 0.000 | 2.183 | 144331. | -184410. | 19054. | 0.000 |
| MONTHLY SUMMARY (APR) | | | | | | | | |
| MN | -189893. | 1600. | 0.000 | 2.183 | 124524. | -184410. | 1600. | 0.000 |
| MX | -189893. | 78802. | 3.838 | 2.183 | 154428. | -184410. | 78802. | 3.838 |
| SM | -136722672. | 5305051. | 63.319 | 1571.759 | 100607640. | -132775384. | 5305051. | 63.319 |
| AV | -189893. | 7368. | 0.088 | 2.183 | 139733. | -184410. | 7368. | 0.088 |
| MONTHLY SUMMARY (MAY) | | | | | | | | |
| MN | -189893. | 1600. | 0.000 | 2.183 | 115445. | -184410. | 1600. | 0.000 |
| MX | -189893. | 70724. | 9.008 | 2.183 | 149344. | -184410. | 70724. | 9.008 |
| SM | -141280096. | 6366225. | 1638.531 | 1624.151 | 99064696. | -137201232. | 6366225. | 1638.531 |
| AV | -189893. | 8557. | 2.202 | 2.183 | 133151. | -184410. | 8557. | 2.202 |
| MONTHLY SUMMARY (JUN) | | | | | | | | |
| MN | -189893. | 1600. | 0.000 | 2.183 | 116214. | -184410. | 1600. | 0.000 |
| MX | -189893. | 25643. | 12.898 | 2.183 | 143439. | -184410. | 25643. | 12.898 |
| SM | -136722672. | 1798612. | 3279.619 | 1571.759 | 94289688. | -132775384. | 1798612. | 3279.619 |
| AV | -189893. | 2498. | 4.555 | 2.183 | 130958. | -184410. | 2498. | 4.555 |
| MONTHLY SUMMARY (JUL) | | | | | | | | |
| MN | -189893. | 1600. | 0.000 | 2.183 | 117810. | -184410. | 1600. | 0.000 |
| MX | -189893. | 10082. | 12.976 | 2.183 | 146975. | -184410. | 10082. | 12.976 |
| SM | -141280096. | 1239239. | 4064.665 | 1624.151 | 98738416. | -137201232. | 1239239. | 4064.665 |
| AV | -189893. | 1666. | 5.463 | 2.183 | 132713. | -184410. | 1666. | 5.463 |

| | AC-25 | AC-22 | AC-22 | AC-22 | AC-22 | AC-22 | AC-23 | AC-23 |
|-----------------------|-------------------------------|--------------------------|---------------------------|--------------------------|-------------------------------|-------------------------------|--------------------------|---------------------------|
| | HEATING CAPACITY BTU/HR | HEATING GAS BTU/HR | COOLING ELECTRIC KW | SUPPLY ELECTRIC KW | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR | HEATING GAS BTU/HR | COOLING ELECTRIC KW |
| | ----(78) | ----(45) | ----(47) | ----(49) | ----(70) | ----(78) | ----(45) | ----(47) |
| MONTHLY SUMMARY (AUG) | | | | | | | | |
| MN | -189893. | 1600. | 0.000 | 2.183 | 117921. | -184410. | 1600. | 0.000 |
| MX | -189893. | 34014. | 13.116 | 2.183 | 144375. | -184410. | 34014. | 13.116 |
| SM | -141280096. | 1663531. | 3909.750 | 1624.151 | 98903264. | -137201232. | 1663531. | 3909.750 |
| AV | -189893. | 2236. | 5.255 | 2.183 | 132935. | -184410. | 2236. | 5.255 |
| MONTHLY SUMMARY (SEP) | | | | | | | | |
| MN | -189893. | 1600. | 0.000 | 2.183 | 119396. | -184410. | 1600. | 0.000 |
| MX | -189893. | 39483. | 12.059 | 2.183 | 146450. | -184410. | 39483. | 12.059 |
| SM | -136722672. | 3079856. | 2545.617 | 1571.759 | 95014048. | -132775384. | 3079856. | 2545.617 |
| AV | -189893. | 4278. | 3.536 | 2.183 | 131964. | -184410. | 4278. | 3.536 |
| MONTHLY SUMMARY (OCT) | | | | | | | | |
| MN | -189893. | 1600. | 0.000 | 2.183 | 119008. | -184410. | 1600. | 0.000 |
| MX | -189893. | 65385. | 7.770 | 2.183 | 151507. | -184410. | 65385. | 7.770 |
| SM | -141280096. | 7463823. | 1040.289 | 1624.151 | 100932704. | -137201232. | 7463823. | 1040.289 |
| AV | -189893. | 10032. | 1.398 | 2.183 | 135662. | -184410. | 10032. | 1.398 |
| MONTHLY SUMMARY (NOV) | | | | | | | | |
| MN | -189893. | 1600. | 0.000 | 2.183 | 130244. | -184410. | 1600. | 0.000 |
| MX | -189893. | 77948. | 5.613 | 2.183 | 160426. | -184410. | 77948. | 5.613 |
| SM | -136722672. | 11724183. | 92.759 | 1571.759 | 103564560. | -132775384. | 11724183. | 92.759 |
| AV | -189893. | 16284. | 0.129 | 2.183 | 143840. | -184410. | 16284. | 0.129 |
| MONTHLY SUMMARY (DEC) | | | | | | | | |
| MN | -189893. | 1600. | 0.000 | 2.183 | 134170. | -184410. | 1600. | 0.000 |
| MX | -189893. | 105746. | 0.009 | 2.183 | 164197. | -184410. | 105746. | 0.009 |
| SM | -141280096. | 25558894. | 0.009 | 1624.151 | 111235544. | -137201232. | 25558894. | 0.009 |
| AV | -189893. | 34353. | 0.000 | 2.183 | 149510. | -184410. | 34353. | 0.000 |
| YEARLY SUMMARY | | | | | | | | |
| MN | -189893. | 1600. | 0.000 | 2.183 | 115445. | -184410. | 1600. | 0.000 |
| MX | -189893. | 131275. | 13.116 | 2.183 | 171210. | -184410. | 131275. | 13.116 |
| SM | -1663459328. | 136374592. | 16634.705 | 19123.070 | 1223902464. | -1615433984. | 136374592. | 16634.705 |
| AV | -189893. | 15568. | 1.899 | 2.183 | 139715. | -184410. | 15568. | 1.899 |

| MMDDHH | AC-23 | AC-23 | AC-23 | AC-24 | AC-24 | AC-24 | AC-24 | AC-24 |
|-----------------------|--------------------------|-------------------------------|-------------------------------|--------------------------|---------------------------|--------------------------|-------------------------------|-------------------------------|
| | SUPPLY ELECTRIC KW | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR | HEATING GAS BTU/HR | COOLING ELECTRIC KW | SUPPLY ELECTRIC KW | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR |
| | ---- (49) | ---- (70) | ---- (78) | ---- (45) | ---- (47) | ---- (49) | ---- (70) | ---- (78) |
| MONTHLY SUMMARY (JAN) | | | | | | | | |
| MN | 2.183 | 132851. | -184410. | 1600. | 0.000 | 2.266 | 137600. | -191388. |
| MX | 2.183 | 171210. | -184410. | 147760. | 0.010 | 2.266 | 177330. | -191388. |
| SM | 1624.151 | 113464168. | -137201232. | 39855864. | 0.033 | 1685.606 | 117518448. | -142392496. |
| AV | 2.183 | 152506. | -184410. | 53570. | 0.000 | 2.266 | 157955. | -191388. |
| MONTHLY SUMMARY (FEB) | | | | | | | | |
| MN | 2.183 | 131542. | -184410. | 1600. | 0.000 | 2.266 | 136245. | -191388. |
| MX | 2.183 | 171210. | -184410. | 146894. | 0.018 | 2.266 | 177330. | -191388. |
| SM | 1466.975 | 100705472. | -123923688. | 32611816. | 0.022 | 1522.483 | 104297992. | -128612568. |
| AV | 2.183 | 149859. | -184410. | 48529. | 0.000 | 2.266 | 155205. | -191388. |
| MONTHLY SUMMARY (MAR) | | | | | | | | |
| MN | 2.183 | 122896. | -184410. | 1600. | 0.000 | 2.266 | 127048. | -191388. |
| MX | 2.183 | 158883. | -184410. | 107953. | 0.043 | 2.266 | 164563. | -191388. |
| SM | 1624.151 | 107382200. | -137201232. | 19083850. | 0.058 | 1685.606 | 111184960. | -142392496. |
| AV | 2.183 | 144331. | -184410. | 25650. | 0.000 | 2.266 | 149442. | -191388. |
| MONTHLY SUMMARY (APR) | | | | | | | | |
| MN | 2.183 | 124524. | -184410. | 1600. | 0.000 | 2.266 | 128621. | -191388. |
| MX | 2.183 | 154428. | -184410. | 91622. | 2.966 | 2.266 | 159948. | -191388. |
| SM | 1571.759 | 100607640. | -132775384. | 7497765. | 31.825 | 1631.232 | 104004736. | -137799184. |
| AV | 2.183 | 139733. | -184410. | 10414. | 0.044 | 2.266 | 144451. | -191388. |
| MONTHLY SUMMARY (MAY) | | | | | | | | |
| MN | 2.183 | 115445. | -184410. | 1600. | 0.000 | 2.266 | 119572. | -191388. |
| MX | 2.183 | 149344. | -184410. | 81267. | 9.121 | 2.266 | 154682. | -191388. |
| SM | 1624.151 | 99064696. | -137201232. | 7579124. | 1550.818 | 1685.606 | 102658296. | -142392496. |
| AV | 2.183 | 133151. | -184410. | 10187. | 2.084 | 2.266 | 137982. | -191388. |
| MONTHLY SUMMARY (JUN) | | | | | | | | |
| MN | 2.183 | 116214. | -184410. | 1600. | 0.000 | 2.266 | 120382. | -191388. |
| MX | 2.183 | 143439. | -184410. | 30316. | 13.316 | 2.266 | 148833. | -191388. |
| SM | 1571.759 | 94289688. | -132775384. | 2012069. | 3291.246 | 1631.232 | 97710768. | -137799184. |
| AV | 2.183 | 130958. | -184410. | 2795. | 4.571 | 2.266 | 135709. | -191388. |
| MONTHLY SUMMARY (JUL) | | | | | | | | |
| MN | 2.183 | 117810. | -184410. | 1600. | 0.000 | 2.266 | 122022. | -191388. |
| MX | 2.183 | 146975. | -184410. | 12644. | 13.434 | 2.266 | 152032. | -191388. |
| SM | 1624.151 | 98738416. | -137201232. | 1271481. | 4139.688 | 1685.606 | 102281184. | -142392496. |
| AV | 2.183 | 132713. | -184410. | 1709. | 5.564 | 2.266 | 137475. | -191388. |

| | AC-23 | AC-23 | AC-23 | AC-24 | AC-24 | AC-24 | AC-24 | AC-24 |
|-----------------------|--------------------------|-------------------------------|-------------------------------|--------------------------|---------------------------|--------------------------|-------------------------------|-------------------------------|
| | SUPPLY ELECTRIC KW | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR | HEATING GAS BTU/HR | COOLING ELECTRIC KW | SUPPLY ELECTRIC KW | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR |
| | ---- (49) | ---- (70) | ---- (78) | ---- (45) | ---- (47) | ---- (49) | ---- (70) | ---- (78) |
| MONTHLY SUMMARY (AUG) | | | | | | | | |
| MN | 2.183 | 117921. | -184410. | 1600. | 0.000 | 2.266 | 122054. | -191388. |
| MX | 2.183 | 144375. | -184410. | 37996. | 13.564 | 2.266 | 149529. | -191388. |
| SM | 1624.151 | 98903264. | -137201232. | 1807435. | 3968.066 | 1685.606 | 102474152. | -142392496. |
| AV | 2.183 | 132935. | -184410. | 2429. | 5.333 | 2.266 | 137734. | -191388. |
| MONTHLY SUMMARY (SEP) | | | | | | | | |
| MN | 2.183 | 119396. | -184410. | 1600. | 0.000 | 2.266 | 123659. | -191388. |
| MX | 2.183 | 146450. | -184410. | 45729. | 12.461 | 2.266 | 151745. | -191388. |
| SM | 1571.759 | 95014048. | -132775384. | 3542826. | 2551.991 | 1631.232 | 98427416. | -137799184. |
| AV | 2.183 | 131964. | -184410. | 4921. | 3.544 | 2.266 | 136705. | -191388. |
| MONTHLY SUMMARY (OCT) | | | | | | | | |
| MN | 2.183 | 119008. | -184410. | 1600. | 0.000 | 2.266 | 123263. | -191388. |
| MX | 2.183 | 151507. | -184410. | 73254. | 7.826 | 2.266 | 156923. | -191388. |
| SM | 1624.151 | 100932704. | -137201232. | 8989893. | 970.858 | 1685.606 | 104544752. | -142392496. |
| AV | 2.183 | 135662. | -184410. | 12083. | 1.305 | 2.266 | 140517. | -191388. |
| MONTHLY SUMMARY (NOV) | | | | | | | | |
| MN | 2.183 | 130244. | -184410. | 1600. | 0.000 | 2.266 | 134365. | -191388. |
| MX | 2.183 | 160426. | -184410. | 87004. | 5.385 | 2.266 | 165337. | -191388. |
| SM | 1571.759 | 103564560. | -132775384. | 15740937. | 71.801 | 1631.232 | 107235752. | -137799184. |
| AV | 2.183 | 143840. | -184410. | 21862. | 0.100 | 2.266 | 148939. | -191388. |
| MONTHLY SUMMARY (DEC) | | | | | | | | |
| MN | 2.183 | 134170. | -184410. | 1600. | 0.000 | 2.266 | 138182. | -191388. |
| MX | 2.183 | 164197. | -184410. | 119039. | 0.013 | 2.266 | 170066. | -191388. |
| SM | 1624.151 | 111235544. | -137201232. | 32740390. | 0.027 | 1685.606 | 115192112. | -142392496. |
| AV | 2.183 | 149510. | -184410. | 44006. | 0.000 | 2.266 | 154828. | -191388. |
| YEARLY SUMMARY | | | | | | | | |
| MN | 2.183 | 115445. | -184410. | 1600. | 0.000 | 2.266 | 119572. | -191388. |
| MX | 2.183 | 171210. | -184410. | 147760. | 13.564 | 2.266 | 177330. | -191388. |
| SM | 19123.070 | 1223902464. | -1615433984. | 172733440. | 16576.434 | 19846.650 | 1267530624. | -1676556672. |
| AV | 2.183 | 139715. | -184410. | 19718. | 1.892 | 2.266 | 144695. | -191388. |

| MMDDHH | AC_FRONT | AC_FRONT | AC_FRONT | AC_FRONT | AC_FRONT |
|-----------------------|--------------------------|---------------------------|--------------------------|-------------------------------|-------------------------------|
| | HEATING GAS BTU/HR | COOLING ELECTRIC KW | SUPPLY ELECTRIC KW | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR |
| | ----(45) | ----(47) | ----(49) | ----(70) | ----(78) |
| MONTHLY SUMMARY (JAN) | | | | | |
| MN | 11347. | 0.000 | 4.496 | 268727. | -379785. |
| MX | 368360. | 0.000 | 4.496 | 346317. | -379785. |
| SM | 142900192. | 0.000 | 3344.874 | 229502976. | -282560192. |
| AV | 192070. | 0.000 | 4.496 | 308472. | -379785. |
| MONTHLY SUMMARY (FEB) | | | | | |
| MN | 1600. | 0.000 | 4.496 | 264763. | -379785. |
| MX | 440950. | 0.000 | 4.496 | 346317. | -379785. |
| SM | 121165072. | 0.000 | 3021.177 | 203613888. | -255215648. |
| AV | 180305. | 0.000 | 4.496 | 302997. | -379785. |
| MONTHLY SUMMARY (MAR) | | | | | |
| MN | 1600. | 0.000 | 4.496 | 248118. | -379785. |
| MX | 330079. | 0.032 | 4.496 | 321384. | -379785. |
| SM | 86709904. | 0.064 | 3344.874 | 216999008. | -282560192. |
| AV | 116546. | 0.000 | 4.496 | 291665. | -379785. |
| MONTHLY SUMMARY (APR) | | | | | |
| MN | 1600. | 0.000 | 4.496 | 247629. | -379785. |
| MX | 254967. | 0.058 | 4.496 | 312371. | -379785. |
| SM | 38655840. | 0.074 | 3236.975 | 201730384. | -273445344. |
| AV | 53689. | 0.000 | 4.496 | 280181. | -379785. |
| MONTHLY SUMMARY (MAY) | | | | | |
| MN | 1600. | 0.000 | 4.496 | 233518. | -379785. |
| MX | 224805. | 15.479 | 4.496 | 302088. | -379785. |
| SM | 27181096. | 1778.686 | 3344.874 | 201088752. | -282560192. |
| AV | 36534. | 2.391 | 4.496 | 270281. | -379785. |
| MONTHLY SUMMARY (JUN) | | | | | |
| MN | 1600. | 0.000 | 4.496 | 232335. | -379785. |
| MX | 89968. | 25.744 | 4.496 | 292105. | -379785. |
| SM | 5871209. | 5087.411 | 3236.975 | 192372912. | -273445344. |
| AV | 8154. | 7.066 | 4.496 | 267185. | -379785. |
| MONTHLY SUMMARY (JUL) | | | | | |
| MN | 1600. | 0.000 | 4.496 | 237099. | -379785. |
| MX | 45651. | 26.166 | 4.496 | 297519. | -379785. |
| SM | 2007224. | 6965.901 | 3344.874 | 201776560. | -282560192. |
| AV | 2698. | 9.363 | 4.496 | 271205. | -379785. |

| | AC_FRONT | AC_FRONT | AC_FRONT | AC_FRONT | AC_FRONT |
|-----------------------|--------------------------|---------------------------|--------------------------|-------------------------------|-------------------------------|
| | HEATING GAS BTU/HR | COOLING ELECTRIC KW | SUPPLY ELECTRIC KW | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR |
| | ----(45) | ----(47) | ----(49) | ----(70) | ----(78) |
| MONTHLY SUMMARY (AUG) | | | | | |
| MN | 1600. | 0.000 | 4.496 | 238089. | -379785. |
| MX | 101142. | 26.668 | 4.496 | 294348. | -379785. |
| SM | 4184445. | 6236.478 | 3344.874 | 202349296. | -282560192. |
| AV | 5624. | 8.382 | 4.496 | 271975. | -379785. |
| MONTHLY SUMMARY (SEP) | | | | | |
| MN | 1600. | 0.000 | 4.496 | 242425. | -379785. |
| MX | 124586. | 22.272 | 4.496 | 298983. | -379785. |
| SM | 11754011. | 3509.481 | 3236.975 | 193203328. | -273445344. |
| AV | 16325. | 4.874 | 4.496 | 268338. | -379785. |
| MONTHLY SUMMARY (OCT) | | | | | |
| MN | 1600. | 0.000 | 4.496 | 240726. | -379785. |
| MX | 209464. | 11.796 | 4.496 | 306464. | -379785. |
| SM | 35717080. | 740.588 | 3344.874 | 204173344. | -282560192. |
| AV | 48007. | 0.995 | 4.496 | 274427. | -379785. |
| MONTHLY SUMMARY (NOV) | | | | | |
| MN | 1600. | 0.000 | 4.496 | 260846. | -379785. |
| MX | 253478. | 0.064 | 4.496 | 312371. | -379785. |
| SM | 72342896. | 0.140 | 3236.975 | 208748816. | -273445344. |
| AV | 100476. | 0.000 | 4.496 | 289929. | -379785. |
| MONTHLY SUMMARY (DEC) | | | | | |
| MN | 1600. | 0.000 | 4.496 | 264763. | -379785. |
| MX | 338044. | 0.000 | 4.496 | 332132. | -379785. |
| SM | 127090280. | 0.000 | 3344.874 | 224847104. | -282560192. |
| AV | 170820. | 0.000 | 4.496 | 302214. | -379785. |
| YEARLY SUMMARY | | | | | |
| MN | 1600. | 0.000 | 4.496 | 232335. | -379785. |
| MX | 440950. | 26.668 | 4.496 | 346317. | -379785. |
| SM | 675579264. | 24318.822 | 39383.195 | 2480406272. | -3326918656. |
| AV | 77121. | 2.776 | 4.496 | 283151. | -379785. |

| MDDHH | AC_3_8 | AC_3_8 | AC_3_8 | AC_3_8 | AC_3_8 | AC-1_2 | AC-1_2 | AC-1_2 |
|-----------------------|--------------------------|---------------------------|--------------------------|-------------------------------|-------------------------------|--------------------------|---------------------------|--------------------------|
| | HEATING GAS BTU/HR | COOLING ELECTRIC KW | SUPPLY ELECTRIC KW | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR | HEATING GAS BTU/HR | COOLING ELECTRIC KW | SUPPLY ELECTRIC KW |
| | ---- (45) | ---- (47) | ---- (49) | ---- (70) | ---- (78) | ---- (45) | ---- (47) | ---- (49) |
| MONTHLY SUMMARY (JAN) | | | | | | | | |
| MN | 1600. | 0.000 | 6.171 | 419198. | -675339. | 1600. | 0.000 | 6.590 |
| MK | 648866. | 0.000 | 6.171 | 540233. | -675339. | 528636. | 0.035 | 6.590 |
| SM | 249252064. | 0.000 | 4591.521 | 358010464. | -502452000. | 196586880. | 0.035 | 4903.183 |
| AV | 335016. | 0.000 | 6.171 | 481197. | -675339. | 264230. | 0.000 | 6.590 |
| MONTHLY SUMMARY (FEB) | | | | | | | | |
| MN | 1600. | 0.000 | 6.171 | 413015. | -675339. | 1600. | 0.000 | 6.590 |
| MK | 692260. | 0.000 | 6.171 | 540233. | -675339. | 541186. | 0.007 | 6.590 |
| SM | 205744432. | 0.000 | 4147.180 | 317625088. | -453827616. | 161229120. | 0.007 | 4428.682 |
| AV | 306167. | 0.000 | 6.171 | 472656. | -675339. | 239924. | 0.000 | 6.590 |
| MONTHLY SUMMARY (MAR) | | | | | | | | |
| MN | 1600. | 0.000 | 6.171 | 387049. | -675339. | 1600. | 0.000 | 6.590 |
| MK | 510673. | 0.031 | 6.171 | 501340. | -675339. | 412173. | 0.071 | 6.590 |
| SM | 151022320. | 0.031 | 4591.521 | 338473024. | -502452000. | 112568472. | 0.099 | 4903.183 |
| AV | 202987. | 0.000 | 6.171 | 454937. | -675339. | 151302. | 0.000 | 6.590 |
| MONTHLY SUMMARY (APR) | | | | | | | | |
| MN | 1600. | 0.000 | 6.171 | 390512. | -675339. | 1600. | 0.000 | 6.590 |
| MK | 430793. | 0.044 | 6.171 | 487280. | -675339. | 346355. | 0.054 | 6.590 |
| SM | 75598888. | 0.066 | 4443.408 | 314401632. | -486243872. | 49898580. | 0.129 | 4745.016 |
| AV | 104998. | 0.000 | 6.171 | 436669. | -675339. | 69304. | 0.000 | 6.590 |
| MONTHLY SUMMARY (MAY) | | | | | | | | |
| MN | 1600. | 0.000 | 6.171 | 364274. | -675339. | 1600. | 0.000 | 6.590 |
| MK | 388901. | 25.334 | 6.171 | 471238. | -675339. | 310309. | 23.128 | 6.590 |
| SM | 54239380. | 2790.134 | 4591.521 | 313224512. | -502452000. | 35850540. | 2802.956 | 4903.183 |
| AV | 72902. | 3.750 | 6.171 | 421001. | -675339. | 48186. | 3.767 | 6.590 |
| MONTHLY SUMMARY (JUN) | | | | | | | | |
| MN | 1600. | 0.000 | 6.171 | 364471. | -675339. | 1600. | 0.000 | 6.590 |
| MK | 176937. | 42.155 | 6.171 | 458672. | -675339. | 124121. | 37.126 | 6.590 |
| SM | 13192744. | 8339.002 | 4443.408 | 301833120. | -486243872. | 7035835. | 7781.230 | 4745.016 |
| AV | 18323. | 11.582 | 6.171 | 419213. | -675339. | 9772. | 10.807 | 6.590 |
| MONTHLY SUMMARY (JUL) | | | | | | | | |
| MN | 1600. | 0.000 | 6.171 | 369860. | -675339. | 1600. | 0.000 | 6.590 |
| MK | 115433. | 41.063 | 6.171 | 473976. | -675339. | 63139. | 37.778 | 6.590 |
| SM | 4399660. | 11424.815 | 4591.521 | 319352064. | -502452000. | 2106453. | 10441.887 | 4903.183 |
| AV | 5914. | 15.356 | 6.171 | 429237. | -675339. | 2831. | 14.035 | 6.590 |

| | AC_3_8 | AC_3_8 | AC_3_8 | AC_3_8 | AC_3_8 | AC-1_2 | AC-1_2 | AC-1_2 |
|-----------------------|--------------------------|---------------------------|--------------------------|-------------------------------|-------------------------------|--------------------------|---------------------------|--------------------------|
| | HEATING GAS BTU/HR | COOLING ELBCTRIC KW | SUPPLY ELECTRIC KW | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR | HEATING GAS BTU/HR | COOLING ELBCTRIC KW | SUPPLY ELECTRIC KW |
| | ----(45) | ----(47) | ----(49) | ----(70) | ----(78) | ----(45) | ----(47) | ----(49) |
| MONTHLY SUMMARY (AUG) | | | | | | | | |
| MN | 1600. | 0.000 | 6.171 | 376938. | -675339. | 1600. | 0.000 | 6.590 |
| MX | 189918. | 42.120 | 6.171 | 465903. | -675339. | 137603. | 37.825 | 6.590 |
| SM | 9235072. | 10371.334 | 4591.521 | 318897535. | -502452000. | 5050053. | 9496.333 | 4903.183 |
| AV | 12413. | 13.940 | 6.171 | 428626. | -675339. | 6788. | 12.764 | 6.590 |
| MONTHLY SUMMARY (SEP) | | | | | | | | |
| MN | 1600. | 0.000 | 6.171 | 383810. | -675339. | 1600. | 0.000 | 6.590 |
| MX | 244235. | 37.934 | 6.171 | 472375. | -675339. | 184909. | 33.372 | 6.590 |
| SM | 24945502. | 5786.736 | 4443.408 | 303090272. | -486243872. | 15603298. | 5460.445 | 4745.016 |
| AV | 34647. | 8.037 | 6.171 | 420959. | -675339. | 21671. | 7.584 | 6.590 |
| MONTHLY SUMMARY (OCT) | | | | | | | | |
| MN | 1600. | 0.000 | 6.171 | 375518. | -675339. | 1600. | 0.000 | 6.590 |
| MX | 355694. | 20.797 | 6.171 | 478065. | -675339. | 272436. | 17.388 | 6.590 |
| SM | 69667448. | 1329.456 | 4591.521 | 317781632. | -502452000. | 45837980. | 1191.267 | 4903.183 |
| AV | 93639. | 1.787 | 6.171 | 427126. | -675339. | 61610. | 1.601 | 6.590 |
| MONTHLY SUMMARY (NOV) | | | | | | | | |
| MN | 1600. | 0.000 | 6.171 | 406903. | -675339. | 1600. | 0.000 | 6.590 |
| MX | 413632. | 0.814 | 6.171 | 487280. | -675339. | 330143. | 0.000 | 6.590 |
| SM | 129756264. | 1.383 | 4443.408 | 325309504. | -486243872. | 97064648. | 0.000 | 4745.016 |
| AV | 180217. | 0.002 | 6.171 | 451819. | -675339. | 134812. | 0.000 | 6.590 |
| MONTHLY SUMMARY (DEC) | | | | | | | | |
| MN | 1600. | 0.000 | 6.171 | 413015. | -675339. | 1600. | 0.000 | 6.590 |
| MX | 563064. | 0.056 | 6.171 | 518105. | -675339. | 446285. | 0.000 | 6.590 |
| SM | 219610832. | 0.056 | 4591.521 | 350708416. | -502452000. | 173056256. | 0.000 | 4903.183 |
| AV | 295176. | 0.000 | 6.171 | 471382. | -675339. | 232603. | 0.000 | 6.590 |
| YEARLY SUMMARY | | | | | | | | |
| MN | 1600. | 0.000 | 6.171 | 364274. | -675339. | 1600. | 0.000 | 6.590 |
| MX | 692260. | 42.155 | 6.171 | 540233. | -675339. | 541186. | 37.825 | 6.590 |
| SM | 1206664704. | 40043.012 | 54061.461 | 3878706944. | -5915967488. | 901888128. | 37174.387 | 57731.027 |
| AV | 137747. | 4.571 | 6.171 | 442775. | -675339. | 102955. | 4.244 | 6.590 |

| MMDH | AC-1_2 | AC-1_2 | AC_EXP | AC_EXP | AC_EXP | AC_EXP | AC_EXP |
|------------------------------|-------------------------------|-------------------------------|--------------------------|---------------------------|--------------------------|-------------------------------|-------------------------------|
| | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR | HEATING GAS BTU/HR | COOLING ELECTRIC KW | SUPPLY ELECTRIC KW | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR |
| | ----(70) | ----(78) | ----(45) | ----(47) | ----(49) | ----(70) | ----(78) |
| MONTHLY SUMMARY (JAN) | | | | | | | |
| MN | 390358. | -556719. | 82416. | 0.000 | 6.171 | 365443. | -521332. |
| MX | 503066. | -556719. | 541912. | 0.000 | 6.171 | 470959. | -521332. |
| SM | 33380096. | -414198944. | 234761600. | 0.000 | 4591.521 | 312102272. | -387871104. |
| AV | 448092. | -556719. | 315540. | 0.000 | 6.171 | 419492. | -521332. |
| MONTHLY SUMMARY (FEB) | | | | | | | |
| MN | 384600. | -556719. | 17320. | 0.000 | 6.171 | 360053. | -521332. |
| MX | 503066. | -556719. | 638951. | 0.000 | 6.171 | 470959. | -521332. |
| SM | 295774208. | -374115200. | 201392064. | 0.000 | 4147.180 | 276895552. | -350335200. |
| AV | 440140. | -556719. | 299691. | 0.000 | 6.171 | 412047. | -521332. |
| MONTHLY SUMMARY (MAR) | | | | | | | |
| MN | 360421. | -556719. | 1600. | 0.000 | 6.171 | 337417. | -521332. |
| MX | 466849. | -556719. | 499925. | 0.065 | 6.171 | 437052. | -521332. |
| SM | 315221152. | -414198944. | 158439792. | 0.102 | 4591.521 | 295090848. | -387871104. |
| AV | 423684. | -556719. | 212957. | 0.000 | 6.171 | 396627. | -521332. |
| MONTHLY SUMMARY (APR) | | | | | | | |
| MN | 360541. | -556719. | 1600. | 0.000 | 6.171 | 329490. | -521332. |
| MX | 453756. | -556719. | 387902. | 0.064 | 6.171 | 424795. | -521332. |
| SM | 293141376. | -400837696. | 83833512. | 0.086 | 4443.408 | 273886688. | -375359136. |
| AV | 407141. | -556719. | 116435. | 0.000 | 6.171 | 380398. | -521332. |
| MONTHLY SUMMARY (MAY) | | | | | | | |
| MN | 339213. | -556719. | 1600. | 0.000 | 6.171 | 317563. | -521332. |
| MX | 438818. | -556719. | 338529. | 15.362 | 6.171 | 410811. | -521332. |
| SM | 291744480. | -414198944. | 56613372. | 1234.007 | 4591.521 | 273814624. | -387871104. |
| AV | 392130. | -556719. | 76093. | 1.659 | 6.171 | 368030. | -521332. |
| MONTHLY SUMMARY (JUN) | | | | | | | |
| MN | 337585. | -556719. | 1600. | 0.000 | 6.171 | 315953. | -521332. |
| MX | 423616. | -556719. | 150216. | 31.371 | 6.171 | 402325. | -521332. |
| SM | 278103904. | -400837696. | 13446205. | 5029.984 | 4443.408 | 262678560. | -375359136. |
| AV | 386255. | -556719. | 18675. | 6.986 | 6.171 | 364831. | -521332. |
| MONTHLY SUMMARY (JUL) | | | | | | | |
| MN | 344415. | -556719. | 1600. | 0.000 | 6.171 | 322433. | -521332. |
| MX | 429870. | -556719. | 89820. | 32.806 | 6.171 | 408681. | -521332. |
| SM | 291083616. | -414198944. | 4053830. | 7323.528 | 4591.521 | 276209920. | -387871104. |
| AV | 391241. | -556719. | 5449. | 9.843 | 6.171 | 371250. | -521332. |

| | AC-1_2 | AC-1_2 | AC_EXP | AC_EXP | AC_EXP | AC_EXP | AC_EXP |
|------------------------------|-------------------------------|-------------------------------|--------------------------|---------------------------|--------------------------|-------------------------------|-------------------------------|
| | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR | HEATING GAS BTU/HR | COOLING ELECTRIC KW | SUPPLY ELECTRIC KW | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR |
| | ---- (70) | ---- (78) | ---- (45) | ---- (47) | ---- (49) | ---- (70) | ---- (78) |
| MONTHLY SUMMARY (AUG) | | | | | | | |
| MN | 345345. | -556719. | 1600. | 0.000 | 6.171 | 322804. | -521332. |
| MX | 427626. | -556719. | 154141. | 32.522 | 6.171 | 403790. | -521332. |
| SM | 292054944. | -414198944. | 8585297. | 6426.534 | 4591.521 | 276746816. | -387871104. |
| AV | 392547. | -556719. | 11539. | 8.638 | 6.171 | 371972. | -521332. |
| MONTHLY SUMMARY (SEP) | | | | | | | |
| MN | 350860. | -556719. | 1600. | 0.000 | 6.171 | 329490. | -521332. |
| MX | 432876. | -556719. | 198051. | 24.717 | 6.171 | 408907. | -521332. |
| SM | 279856864. | -400837696. | 23930834. | 3247.383 | 4443.408 | 263516688. | -375359136. |
| AV | 388690. | -556719. | 33237. | 4.510 | 6.171 | 365995. | -521332. |
| MONTHLY SUMMARY (OCT) | | | | | | | |
| MN | 349683. | -556719. | 1600. | 0.000 | 6.171 | 327365. | -521332. |
| MX | 445175. | -556719. | 318258. | 10.836 | 6.171 | 416762. | -521332. |
| SM | 296446560. | -414198944. | 71176168. | 414.984 | 4591.521 | 277493664. | -387871104. |
| AV | 398450. | -556719. | 95667. | 0.558 | 6.171 | 372975. | -521332. |
| MONTHLY SUMMARY (NOV) | | | | | | | |
| MN | 378909. | -556719. | 1600. | 0.000 | 6.171 | 354726. | -521332. |
| MX | 453756. | -556719. | 370123. | 0.000 | 6.171 | 424795. | -521332. |
| SM | 303364032. | -400837696. | 129093024. | 0.000 | 4443.408 | 283361952. | -375359136. |
| AV | 421339. | -556719. | 179296. | 0.000 | 6.171 | 393558. | -521332. |
| MONTHLY SUMMARY (DEC) | | | | | | | |
| MN | 384600. | -556719. | 52245. | 0.000 | 6.171 | 360053. | -521332. |
| MX | 482461. | -556719. | 506512. | 0.000 | 6.171 | 451668. | -521332. |
| SM | 326622848. | -414198944. | 210555344. | 0.000 | 4591.521 | 305761312. | -387871104. |
| AV | 439009. | -556719. | 283005. | 0.000 | 6.171 | 410970. | -521332. |
| YEARLY SUMMARY | | | | | | | |
| MN | 337585. | -556719. | 1600. | 0.000 | 6.171 | 315953. | -521332. |
| MX | 503066. | -556719. | 638951. | 32.806 | 6.171 | 470959. | -521332. |
| SM | 3596794368. | -4876858880. | 1195881088. | 23676.609 | 54061.461 | 3377559040. | -4566869504. |
| AV | 410593. | -556719. | 136516. | 2.703 | 6.171 | 385566. | -521332. |

ENTECH ENGINEERING
READING, PA 19603
REPORT- PV-A EQUIPMENT SIZES

EZDOR - ELITE SOFTWARE DEVELOPMENT INC
PT. GEORGE G. MEADE

DOE-2.1D 1/19/1996 10:13:49 PDL RUN 1
BUILDING 2790 - EXISTING
WEATHER FILE- BALTIMORE, MD

| EQUIPMENT | NUMBER | | NUMBER | | NUMBER | | NUMBER | | NUMBER | |
|-----------|----------|-------|----------|-------|----------|-------|----------|-------|----------|-------|
| | SIZE | INSTD | SIZE | INSTD | SIZE | INSTD | SIZE | INSTD | SIZE | INSTD |
| | (MBTU/H) | AVAIL | (MBTU/H) | AVAIL | (MBTU/H) | AVAIL | (MBTU/H) | AVAIL | (MBTU/H) | AVAIL |
| HW-BOILER | 0.000 | 1 | 1 | | | | | | | |

| S I T E E N E R G Y | | | | | | | | | | | | | * SOURCE |
|-----------------------|-----------------|--------------------|-------------------|---------------|-----------------------|--------------------|--------------------|--------------------|--------------------|------------------|------------------|-------------------|---------------------|
| | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| MONTH | TOTAL HEAT LOAD | TOTAL COOLING LOAD | TOTAL ELECTR LOAD | RCVRED ENERGY | WASTED RCVRABL ENERGY | FUEL INPUT COOLING | ELRC INPUT COOLING | FUEL INPUT HEATING | ELRC INPUT HEATING | FUEL INPUT ELECT | TOTAL FUEL INPUT | TOTAL SITE ENERGY | TOTAL SOURCE ENERGY |
| JAN | 0.0 | 0.0 | 374.4 109.6E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 0.0 | 0.0 0.0E | 0.0 | 1086.4 | 1460.8 | 2210.6 |
| FEB | 0.0 | 0.0 | 333.7 97.7E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 0.0 | 0.0 0.0E | 0.0 | 906.8 | 1240.5 | 1908.8 |
| MAR | 0.0 | 0.0 | 383.6 112.3E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 0.0 | 0.0 0.0E | 0.0 | 628.4 | 1012.0 | 1780.3 |
| APR | 0.0 | 0.0 | 371.7 108.9E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 0.0 | 0.0 0.0E | 0.0 | 293.1 | 664.9 | 1409.5 |
| MAY | 0.0 | 0.0 | 438.7 128.5E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 0.0 | 0.0 0.0E | 0.0 | 226.1 | 664.8 | 1543.4 |
| JUN | 0.0 | 0.0 | 548.8 160.7E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 0.0 | 0.0 0.0E | 0.0 | 54.2 | 602.9 | 1702.1 |
| JUL | 0.0 | 0.0 | 599.5 175.6E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 0.0 | 0.0 0.0E | 0.0 | 22.5 | 621.9 | 1822.6 |
| AUG | 0.0 | 0.0 | 601.2 176.1E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 0.0 | 0.0 0.0E | 0.0 | 40.5 | 641.7 | 1845.8 |
| SEP | 0.0 | 0.0 | 491.5 144.0E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 0.0 | 0.0 0.0E | 0.0 | 101.3 | 592.9 | 1577.4 |
| OCT | 0.0 | 0.0 | 405.7 118.8E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 0.0 | 0.0 0.0E | 0.0 | 283.7 | 689.3 | 1501.9 |
| NOV | 0.0 | 0.0 | 354.0 103.7E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 0.0 | 0.0 0.0E | 0.0 | 527.0 | 881.0 | 1590.2 |
| DEC | 0.0 | 0.0 | 374.4 109.6E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 0.0 | 0.0 0.0E | 0.0 | 943.2 | 1317.6 | 2067.4 |
| | 0.0 | 0.0 | 5277.0 1545.5E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 0.0 | 0.0 0.0E | 0.0 | 5113.3 | 10390.3 | 20960.1 |

NOTE-- ALL ENTRIES ARE IN MBTU EXCEPT
 ENTRIES FOLLOWED BY E ARE IN MWH (THOUSANDS OF KWH)

| MO | UTILITY- | ELECTRICITY | FUEL-OIL | NATURAL-GAS |
|-----|--------------|-------------|----------|-------------|
| | TOTAL (MBTU) | 374.351 | 0.000 | 1086.428 |
| JAN | PEAK (KBTU) | 878.266 | 0.000 | 3146.579 |
| | DY/HR | 6/ 9 | 31/24 | 31/ 7 |
| | TOTAL (MBTU) | 333.658 | 0.000 | 906.847 |
| FEB | PEAK (KBTU) | 878.291 | 0.000 | 3376.558 |
| | DY/HR | 26/ 9 | 28/24 | 12/ 6 |
| | TOTAL (MBTU) | 383.584 | 0.000 | 628.385 |
| MAR | PEAK (KBTU) | 878.327 | 0.000 | 2490.928 |
| | DY/HR | 28/ 9 | 31/24 | 5/ 8 |
| | TOTAL (MBTU) | 371.733 | 0.000 | 293.139 |
| APR | PEAK (KBTU) | 977.351 | 0.000 | 2059.329 |
| | DY/HR | 19/19 | 30/ 1 | 9/ 7 |
| | TOTAL (MBTU) | 438.671 | 0.000 | 226.091 |
| MAY | PEAK (KBTU) | 1392.848 | 0.000 | 1839.409 |
| | DY/HR | 21/17 | 31/ 1 | 10/ 7 |
| | TOTAL (MBTU) | 548.772 | 0.000 | 54.156 |
| JUN | PEAK (KBTU) | 1689.427 | 0.000 | 748.828 |
| | DY/HR | 28/17 | 30/ 1 | 22/ 7 |
| | TOTAL (MBTU) | 599.452 | 0.000 | 22.492 |
| JUL | PEAK (KBTU) | 1701.746 | 0.000 | 394.710 |
| | DY/HR | 25/17 | 31/ 1 | 21/ 5 |
| | TOTAL (MBTU) | 601.158 | 0.000 | 40.508 |
| AUG | PEAK (KBTU) | 1710.840 | 0.000 | 852.452 |
| | DY/HR | 18/17 | 31/ 1 | 22/ 4 |
| | TOTAL (MBTU) | 491.546 | 0.000 | 101.331 |
| SEP | PEAK (KBTU) | 1610.253 | 0.000 | 1073.218 |
| | DY/HR | 1/17 | 30/ 1 | 30/ 7 |
| | TOTAL (MBTU) | 405.663 | 0.000 | 283.668 |
| OCT | PEAK (KBTU) | 1292.527 | 0.000 | 1610.285 |
| | DY/HR | 13/17 | 31/24 | 5/ 7 |
| | TOTAL (MBTU) | 354.028 | 0.000 | 527.012 |
| NOV | PEAK (KBTU) | 1033.762 | 0.000 | 1965.501 |
| | DY/HR | 2/19 | 30/24 | 25/ 7 |
| | TOTAL (MBTU) | 374.352 | 0.000 | 943.243 |
| DEC | PEAK (KBTU) | 878.347 | 0.000 | 2695.021 |
| | DY/HR | 15/ 9 | 31/24 | 21/ 5 |
| | ONE YEAR | 5276.969 | 0.000 | 5113.301 |
| | USE/PEAK | 1710.840 | 0.000 | 3376.558 |

ENTECH ENGINEERING
READING, PA 19603
REPORT- PS-D PLANT LOADS SATISFIED

EZDOR - ELITE SOFTWARE DEVELOPMENT INC
FT. GEORGE G. MEADE

DOB-2.1D 1/19/1996 10:13:49 PDL RUN 1
BUILDING 2790 - EXISTING
WEATHER FILE- BALTIMORE, MD

| ELECTRICAL LOADS | MBTU SUPPLIED | PCT OF TOTAL LOAD |
|---------------------|---------------|-------------------|
| ELECTRICITY | 5277.0 | 100.0 |
| LOAD SATISFIED | 5277.0 | 100.0 |
| TOTAL LOAD ON PLANT | 5277.1 | |

ENTECH ENGINEERING
READING, PA 19603
REPORT- PS-D PLANT LOADS SATISFIED

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
PT. GEORGE G. MEADE

DOE-2.1D 1/19/1996 10:13:49 PDL RUN 1
BUILDING 2790 - EXISTING
WEATHER FILE- BALTIMORE, MD
----- (CONTINUED) -----

SUMMARY OF LOADS MBT

| TYPE OF LOAD | TOTAL LOAD (MBTU) | LOAD SATISFIED (MBTU) | TOTAL OVERLOAD (MBTU) | PEAK OVERLOAD (MBTU) | HOURS OVERLOADED |
|------------------|-------------------------|-----------------------------|-----------------------------|----------------------------|---------------------|
| ELECTRICAL LOADS | 5277.1 | 5277.0 | 0.000 | 0.000 | 0 |

ENTECH ENGINEERING
READING, PA 19603
REPORT- PS-H EQUIPMENT USE STATISTICS

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
FT. GEORGE G. MEADE

DOE-2.1D 1/19/1996 10:13:49 PDL RUN 1
BUILDING 2790 - EXISTING
WEATHER FILE- BALTIMORE, MD

| EQUIPMENT | AVG | MAX | ----- | | | ----- | | ----- | | ----- | | ----- | | |
|-----------|-------|--------|-------|-----|--------|-------|--------|-------|--------|-------|--------|-------|--------|-----|
| | OPER | LOAD | MON | DAY | SIZE | OPER | SIZE | OPER | SIZE | OPER | SIZE | OPER | OPER | |
| ----- | RATIO | (MBTU) | HR | HR | (MBTU) | HRS | (MBTU) | HRS | (MBTU) | HRS | (MBTU) | HRS | (MBTU) | HRS |
| HW-BOILER | 0.000 | 0.000 | 0 | 0 | 0 | 0.000 | 0 | | | | | | | |

ENTECH ENGINEERING
READING, PA 19603
REPORT- PS-I EQUIPMENT LIFE CYCLE COSTS

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
FT. GEORGE G. MEADE

DOB-2.1D 1/19/1996 10:13:49 PDL RUN 1
BUILDING 2790 - EXISTING
WEATHER FILE- BALTIMORE, MD

E Q U I P M E N T T O T A L S

| | | | |
|---------------------|-----|-------|-----|
| HW-BOILER | 0.1 | | |
| NOMINAL SIZE (MBTU) | | 0.000 | |
| NUMBER INSTALLED | | | 1 |
| FIRST COST (K\$) | 0.0 | | 0.0 |
| ANNUAL COST (K\$) | 0.1 | | 0.1 |
| CYCLICAL COST (K\$) | 0.0 | | 0.0 |
| -----TOTAL----(K\$) | | | 0.1 |
| ----- | | | |
| EQUIPMENT TOTAL | 0.1 | | |

| ENERGY TYPE IN SITE MBTU - | ELECTRICITY | FUEL-OIL | NATURAL-GAS |
|-------------------------------|-------------|----------|-------------|
| CATEGORY OF USE | | | |
| SPACE HEAT | 0.00 | 0.00 | 5113.29 |
| SPACE COOL | 879.69 | 0.00 | 0.00 |
| HVAC AUX | 1222.55 | 0.00 | 0.00 |
| DOM HOT WTR | 0.00 | 0.00 | 0.00 |
| AUX SOLAR | 0.00 | 0.00 | 0.00 |
| LIGHTS | 2778.51 | 0.00 | 0.00 |
| VERT TRANS | 0.00 | 0.00 | 0.00 |
| MISC EQUIP | 396.17 | 0.00 | 0.00 |
| TOTAL | 5276.91 | 0.00 | 5113.29 |

TOTAL SITE ENERGY 10390.27 MBTU 132.5 KBTU/SQFT-YR GROSS-AREA 132.5 KBTU/SQFT-YR NET-AREA
 TOTAL SOURCE ENERGY 20960.05 MBTU 267.3 KBTU/SQFT-YR GROSS-AREA 267.3 KBTU/SQFT-YR NET-AREA

PERCENT OF HOURS ANY SYSTEM ZONE OUTSIDE OF THROTTLING RANGE = 0.3
 PERCENT OF HOURS ANY PLANT LOAD NOT SATISFIED = 0.0

NOTE ELECTRICITY AND/OR FUEL USED TO GENERATE ELECTRICITY IS APPORTIONED BASED
 ON THE YEARLY DEMAND. ALL OTHER ENERGY TYPES ARE APPORTIONED HOURLY.

| | AC-17 | AC-17 | AC-17 | AC-17 | AC-17 | AC-18 | AC-18 | AC-18 |
|-----------------------|---------------------------|--------------------------|--------------------------|-------------------------------|-------------------------------|--------------------------|---------------------------|--------------------------|
| | COOLING ELECTRIC KW | SUPPLY ELECTRIC KW | HEATING GAS BTU/HR | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR | HEATING GAS BTU/HR | COOLING ELECTRIC KW | SUPPLY ELECTRIC KW |
| | ----(47) | ----(49) | ----(45) | ----(70) | ----(78) | ----(45) | ----(47) | ----(49) |
| MONTHLY SUMMARY (AUG) | | | | | | | | |
| MN | 0.000 | 0.000 | 1600. | 0. | -182915. | 1600. | 0.000 | 0.000 |
| MX | 13.056 | 2.165 | 39174. | 149784. | 0. | 17409. | 12.736 | 2.106 |
| SM | 3404.985 | 1009.030 | 1295349. | 60331660. | -85238328. | 1206209. | 3416.549 | 979.429 |
| AV | 4.577 | 1.356 | 1741. | 81091. | -114568. | 1621. | 4.592 | 1.316 |
| MONTHLY SUMMARY (SEP) | | | | | | | | |
| MN | 0.000 | 0.000 | 1600. | 0. | -182915. | 1600. | 0.000 | 0.000 |
| MX | 12.425 | 2.165 | 33049. | 152085. | 0. | 21108. | 12.137 | 2.106 |
| SM | 2248.273 | 974.385 | 1421219. | 58169480. | -82311696. | 1240002. | 2316.934 | 947.835 |
| AV | 3.123 | 1.353 | 1974. | 80791. | -114322. | 1722. | 3.218 | 1.316 |
| MONTHLY SUMMARY (OCT) | | | | | | | | |
| MN | 0.000 | 0.000 | 1600. | 0. | -182915. | 1600. | 0.000 | 0.000 |
| MX | 7.860 | 2.165 | 102172. | 150347. | 0. | 79482. | 8.089 | 2.106 |
| SM | 977.413 | 1022.021 | 3077396. | 62689952. | -86335816. | 1961094. | 1109.146 | 979.429 |
| AV | 1.314 | 1.374 | 4136. | 84261. | -116043. | 2636. | 1.491 | 1.316 |
| MONTHLY SUMMARY (NOV) | | | | | | | | |
| MN | 0.000 | 0.000 | 1600. | 0. | -182915. | 1600. | 0.000 | 0.000 |
| MX | 5.709 | 2.165 | 144003. | 159365. | 0. | 106507. | 6.154 | 2.106 |
| SM | 99.662 | 976.550 | 4647658. | 63834164. | -82494608. | 2511149. | 140.538 | 952.047 |
| AV | 0.138 | 1.356 | 6455. | 88659. | -114576. | 3488. | 0.195 | 1.322 |
| MONTHLY SUMMARY (DEC) | | | | | | | | |
| MN | 0.000 | 0.000 | 1600. | 0. | -182915. | 1600. | 0.000 | 0.000 |
| MX | 0.007 | 2.165 | 169021. | 162939. | 0. | 154674. | 0.017 | 2.106 |
| SM | 0.010 | 1043.675 | 13939332. | 70942408. | -88164976. | 8143546. | 0.022 | 992.067 |
| AV | 0.000 | 1.403 | 18736. | 95353. | -118501. | 10946. | 0.000 | 1.333 |
| YEARLY SUMMARY | | | | | | | | |
| MN | 0.000 | 0.000 | 1600. | 0. | -182915. | 1600. | 0.000 | 0.000 |
| MX | 13.056 | 2.165 | 214161. | 169898. | 0. | 194769. | 12.736 | 2.106 |
| SM | 14563.358 | 12000.091 | 73101760. | 760141440. | -1013714240. | 47268612. | 15083.435 | 11593.074 |
| AV | 1.662 | 1.370 | 8345. | 86774. | -115721. | 5396. | 1.722 | 1.323 |

| | AC-18 | AC-18 | AC-19 | AC-19 | AC-19 | AC-19 | AC-19 | AC-21 |
|-----------------------|-------------------------------|-------------------------------|--------------------------|---------------------------|--------------------------|-------------------------------|-------------------------------|--------------------------|
| | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR | HEATING GAS BTU/HR | COOLING ELECTRIC KW | SUPPLY ELECTRIC KW | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR | HEATING GAS BTU/HR |
| | ----(70) | ----(78) | ----(45) | ----(47) | ----(49) | ----(70) | ----(78) | ----(45) |
| MONTHLY SUMMARY (AUG) | | | | | | | | |
| MN | 0. | -177931. | 1600. | 0.000 | 0.000 | 0. | -177931. | 1600. |
| MX | 146020. | 0. | 17409. | 12.736 | 2.106 | 146020. | 0. | 39062. |
| SM | 58631896. | -82737840. | 1206209. | 3416.549 | 979.429 | 58631896. | -82737840. | 1290972. |
| AV | 78806. | -111207. | 1621. | 4.592 | 1.316 | 78806. | -111207. | 1735. |
| MONTHLY SUMMARY (SEP) | | | | | | | | |
| MN | 0. | -177931. | 1600. | 0.000 | 0.000 | 0. | -177931. | 1600. |
| MX | 148671. | 0. | 21108. | 12.137 | 2.106 | 148671. | 0. | 30677. |
| SM | 56652504. | -80068880. | 1240002. | 2316.934 | 947.835 | 56652504. | -80068880. | 1377177. |
| AV | 78684. | -111207. | 1722. | 3.218 | 1.316 | 78684. | -111207. | 1913. |
| MONTHLY SUMMARY (OCT) | | | | | | | | |
| MN | 0. | -177931. | 1600. | 0.000 | 0.000 | 0. | -177931. | 1600. |
| MX | 146476. | 0. | 79482. | 8.089 | 2.106 | 146476. | 0. | 97839. |
| SM | 60129152. | -82737840. | 1961094. | 1109.146 | 979.429 | 60129152. | -82737840. | 2904491. |
| AV | 80819. | -111207. | 2636. | 1.491 | 1.316 | 80819. | -111207. | 3904. |
| MONTHLY SUMMARY (NOV) | | | | | | | | |
| MN | 0. | -177931. | 1600. | 0.000 | 0.000 | 0. | -177931. | 1600. |
| MX | 153870. | 0. | 106507. | 6.154 | 2.106 | 153870. | 0. | 141482. |
| SM | 62408312. | -80424744. | 2511149. | 140.538 | 952.047 | 62408312. | -80424744. | 4449142. |
| AV | 86678. | -111701. | 3488. | 0.195 | 1.322 | 86678. | -111701. | 6179. |
| MONTHLY SUMMARY (DEC) | | | | | | | | |
| MN | 0. | -177931. | 1600. | 0.000 | 0.000 | 0. | -177931. | 1600. |
| MX | 158744. | 0. | 154674. | 0.017 | 2.106 | 158744. | 0. | 169231. |
| SM | 67484216. | -83805424. | 8143546. | 0.022 | 992.067 | 67484216. | -83805424. | 13507875. |
| AV | 90705. | -112642. | 10946. | 0.000 | 1.333 | 90705. | -112642. | 18156. |
| YEARLY SUMMARY | | | | | | | | |
| MN | 0. | -177931. | 1600. | 0.000 | 0.000 | 0. | -177931. | 1600. |
| MX | 165524. | 0. | 194769. | 12.736 | 2.106 | 165524. | 0. | 214814. |
| SM | 735339264. | -979331392. | 47268612. | 15083.435 | 11593.074 | 735339264. | -979331392. | 71199904. |
| AV | 83943. | -111796. | 5396. | 1.722 | 1.323 | 83943. | -111796. | 8128. |

| MMDDHR | AC-21 | AC-21 | AC-21 | AC-21 | AC-25 | AC-25 | AC-25 | AC-25 |
|-----------------------|---------------------------|--------------------------|-------------------------------|-------------------------------|--------------------------|---------------------------|--------------------------|-------------------------------|
| | COOLING ELECTRIC KW | SUPPLY ELECTRIC KW | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR | HEATING GAS BTU/HR | COOLING ELECTRIC KW | SUPPLY ELECTRIC KW | COOLING CAPACITY BTU/HR |
| | ----(47) | ----(49) | ----(70) | ----(78) | ----(45) | ----(47) | ----(49) | ----(70) |
| MONTHLY SUMMARY (JAN) | | | | | | | | |
| MN | 0.000 | 0.000 | 0. | -184909. | 1600. | 0.000 | 0.000 | 0. |
| MK | 0.000 | 2.189 | 171647. | 0. | 223474. | 0.006 | 2.248 | 176019. |
| SM | 0.000 | 1048.483 | 72776376. | -88571160. | 24546172. | 0.006 | 1081.240 | 74932664. |
| AV | 0.000 | 1.409 | 97818. | -119047. | 32992. | 0.000 | 1.453 | 100716. |
| MONTHLY SUMMARY (FEB) | | | | | | | | |
| MN | 0.000 | 0.000 | 0. | -184909. | 1600. | 0.000 | 0.000 | 0. |
| MK | 0.047 | 2.189 | 171647. | 0. | 211554. | 0.016 | 2.248 | 176019. |
| SM | 0.075 | 943.416 | 64059280. | -79695552. | 18509228. | 0.016 | 982.332 | 66643768. |
| AV | 0.000 | 1.404 | 95326. | -118595. | 27543. | 0.000 | 1.462 | 99172. |
| MONTHLY SUMMARY (MAR) | | | | | | | | |
| MN | 0.000 | 0.000 | 0. | -184909. | 1600. | 0.000 | 0.000 | 0. |
| MK | 0.033 | 2.189 | 157790. | 0. | 177602. | 0.021 | 2.248 | 161809. |
| SM | 0.065 | 1026.594 | 67042100. | -86722072. | 9417397. | 0.055 | 1056.513 | 68863080. |
| AV | 0.000 | 1.380 | 90110. | -116562. | 12658. | 0.000 | 1.420 | 92558. |
| MONTHLY SUMMARY (APR) | | | | | | | | |
| MN | 0.000 | 0.000 | 0. | -184909. | 1600. | 0.000 | 0.000 | 0. |
| MK | 4.517 | 2.189 | 154822. | 0. | 115451. | 3.774 | 2.248 | 158765. |
| SM | 104.591 | 985.005 | 62562092. | -83208816. | 2985247. | 55.426 | 1011.555 | 64031128. |
| AV | 0.145 | 1.368 | 86892. | -115568. | 4146. | 0.077 | 1.405 | 88932. |
| MONTHLY SUMMARY (MAY) | | | | | | | | |
| MN | 0.000 | 0.000 | 0. | -184909. | 1600. | 0.000 | 0.000 | 0. |
| MK | 9.440 | 2.189 | 149725. | 0. | 89646. | 9.507 | 2.248 | 153539. |
| SM | 1505.682 | 1041.916 | 62881968. | -88016424. | 3450165. | 1439.866 | 1078.992 | 65070208. |
| AV | 2.024 | 1.400 | 84519. | -118302. | 4637. | 1.935 | 1.450 | 87460. |
| MONTHLY SUMMARY (JUN) | | | | | | | | |
| MN | 0.000 | 0.000 | 0. | -184909. | 1600. | 0.000 | 0.000 | 0. |
| MK | 13.133 | 2.189 | 148526. | 0. | 18896. | 13.457 | 2.248 | 152120. |
| SM | 2922.726 | 985.005 | 58069912. | -83208816. | 1211964. | 2915.560 | 1011.555 | 59564072. |
| AV | 4.059 | 1.368 | 80653. | -115568. | 1683. | 4.049 | 1.405 | 82728. |
| MONTHLY SUMMARY (JUL) | | | | | | | | |
| MN | 0.000 | 0.000 | 0. | -184909. | 1600. | 0.000 | 0.000 | 0. |
| MK | 13.128 | 2.189 | 157507. | 0. | 1600. | 13.448 | 2.248 | 161349. |
| SM | 3380.717 | 1017.838 | 61197684. | -85982440. | 1190400. | 3392.390 | 1045.274 | 62773840. |
| AV | 4.544 | 1.368 | 82255. | -115568. | 1600. | 4.560 | 1.405 | 84373. |

| | AC-21 | AC-21 | AC-21 | AC-21 | AC-25 | AC-25 | AC-25 | AC-25 |
|-----------------------|---------------------------|--------------------------|-------------------------------|-------------------------------|--------------------------|---------------------------|--------------------------|-------------------------------|
| | COOLING ELECTRIC KW | SUPPLY ELECTRIC KW | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR | HEATING GAS BTU/HR | COOLING ELECTRIC KW | SUPPLY ELECTRIC KW | COOLING CAPACITY BTU/HR |
| | ----(47) | ----(49) | ----(70) | ----(78) | ----(45) | ----(47) | ----(49) | ----(70) |
| MONTHLY SUMMARY (AUG) | | | | | | | | |
| MN | 0.000 | 0.000 | 0. | -184909. | 1600. | 0.000 | 0.000 | 0. |
| MX | 13.193 | 2.189 | 151348. | 0. | 43782. | 13.513 | 2.248 | 155124. |
| SM | 3449.515 | 1020.027 | 60942488. | -86167344. | 1357859. | 3447.411 | 1047.521 | 62519464. |
| AV | 4.636 | 1.371 | 81912. | -115816. | 1825. | 4.634 | 1.408 | 84032. |
| MONTHLY SUMMARY (SEP) | | | | | | | | |
| MN | 0.000 | 0.000 | 0. | -184909. | 1600. | 0.000 | 0.000 | 0. |
| MX | 12.570 | 2.189 | 153756. | 0. | 41648. | 12.856 | 2.248 | 157258. |
| SM | 2299.981 | 985.005 | 58750896. | -83208816. | 1630083. | 2238.269 | 1013.803 | 60420368. |
| AV | 3.194 | 1.368 | 81598. | -115568. | 2264. | 3.109 | 1.408 | 83917. |
| MONTHLY SUMMARY (OCT) | | | | | | | | |
| MN | 0.000 | 0.000 | 0. | -184909. | 1600. | 0.000 | 0.000 | 0. |
| MX | 8.113 | 2.189 | 151894. | 0. | 116254. | 7.840 | 2.248 | 155763. |
| SM | 1019.131 | 1030.972 | 63194548. | -87091888. | 3841314. | 914.876 | 1065.505 | 65227744. |
| AV | 1.370 | 1.386 | 84939. | -117059. | 5163. | 1.230 | 1.432 | 87672. |
| MONTHLY SUMMARY (NOV) | | | | | | | | |
| MN | 0.000 | 0.000 | 0. | -184909. | 1600. | 0.000 | 0.000 | 0. |
| MX | 5.870 | 2.189 | 161070. | 0. | 156767. | 5.416 | 2.248 | 164338. |
| SM | 103.752 | 987.194 | 64502420. | -83393728. | 6575068. | 80.506 | 1020.547 | 66550396. |
| AV | 0.144 | 1.371 | 89587. | -115825. | 9132. | 0.112 | 1.417 | 92431. |
| MONTHLY SUMMARY (DEC) | | | | | | | | |
| MN | 0.000 | 0.000 | 0. | -184909. | 1600. | 0.000 | 0.000 | 0. |
| MX | 0.005 | 2.189 | 164616. | 0. | 180326. | 0.000 | 2.248 | 168809. |
| SM | 0.005 | 1052.861 | 71522744. | -88940976. | 18210452. | 0.000 | 1085.736 | 73651280. |
| AV | 0.000 | 1.415 | 96133. | -119544. | 24476. | 0.000 | 1.459 | 98994. |
| YEARLY SUMMARY | | | | | | | | |
| MN | 0.000 | 0.000 | 0. | -184909. | 1600. | 0.000 | 0.000 | 0. |
| MX | 13.193 | 2.189 | 171647. | 0. | 223474. | 13.513 | 2.248 | 176019. |
| SM | 14766.239 | 12124.316 | 767502528. | -1024208128. | 32925344. | 14484.380 | 12500.572 | 790248000. |
| AV | 1.688 | 1.384 | 87614. | -116919. | 10608. | 1.653 | 1.427 | 90211. |

| MMDDHH | AC-25 | AC-22 | AC-22 | AC-22 | AC-22 | AC-22 | AC-23 | AC-23 |
|-----------------------|-------------------------------|--------------------------|---------------------------|--------------------------|-------------------------------|-------------------------------|--------------------------|---------------------------|
| | HEATING CAPACITY BTU/HR | HEATING GAS BTU/HR | COOLING ELECTRIC KW | SUPPLY ELECTRIC KW | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR | HEATING GAS BTU/HR | COOLING ELECTRIC KW |
| | ----(78) | ----(45) | ----(47) | ----(49) | ----(70) | ----(78) | ----(45) | ----(47) |
| MONTHLY SUMMARY (JAN) | | | | | | | | |
| MN | -189893. | 1600. | 0.000 | 0.000 | 0. | -184410. | 1600. | 0.000 |
| MX | 0. | 209380. | 0.027 | 2.183 | 171210. | 0. | 209380. | 0.027 |
| SM | -91338336. | 17537012. | 0.027 | 1043.474 | 72442536. | -88148048. | 17537012. | 0.027 |
| AV | -122767. | 23571. | 0.000 | 1.403 | 97369. | -118479. | 23571. | 0.000 |
| MONTHLY SUMMARY (FEB) | | | | | | | | |
| MN | -189893. | 1600. | 0.000 | 0.000 | 0. | -184410. | 1600. | 0.000 |
| MX | 0. | 193857. | 0.022 | 2.183 | 171210. | 0. | 193857. | 0.022 |
| SM | -82983072. | 13181638. | 0.084 | 936.507 | 63609660. | -79111960. | 13181638. | 0.084 |
| AV | -123487. | 19616. | 0.000 | 1.394 | 94657. | -117726. | 19616. | 0.000 |
| MONTHLY SUMMARY (MAR) | | | | | | | | |
| MN | -189893. | 1600. | 0.000 | 0.000 | 0. | -184410. | 1600. | 0.000 |
| MX | 0. | 164164. | 0.015 | 2.183 | 157388. | 0. | 164164. | 0.015 |
| SM | -89249528. | 6073640. | 0.039 | 1023.827 | 66887660. | -86488360. | 6073640. | 0.039 |
| AV | -119959. | 8163. | 0.000 | 1.376 | 89903. | -116248. | 8163. | 0.000 |
| MONTHLY SUMMARY (APR) | | | | | | | | |
| MN | -189893. | 1600. | 0.000 | 0.000 | 0. | -184410. | 1600. | 0.000 |
| MX | 0. | 88372. | 4.756 | 2.183 | 154428. | 0. | 88372. | 4.758 |
| SM | -85451672. | 1864440. | 132.389 | 982.350 | 62437760. | -82984568. | 1864440. | 132.389 |
| AV | -118683. | 2589. | 0.184 | 1.364 | 85719. | -115256. | 2589. | 0.184 |
| MONTHLY SUMMARY (MAY) | | | | | | | | |
| MN | -189893. | 1600. | 0.000 | 0.000 | 0. | -184410. | 1600. | 0.000 |
| MX | 0. | 79325. | 9.516 | 2.183 | 149344. | 0. | 79325. | 9.516 |
| SM | -91148456. | 2469452. | 1539.583 | 1036.925 | 62572768. | -87594824. | 2469452. | 1539.583 |
| AV | -122511. | 3319. | 2.069 | 1.394 | 84103. | -117735. | 3319. | 2.069 |
| MONTHLY SUMMARY (JUN) | | | | | | | | |
| MN | -189893. | 1600. | 0.000 | 0.000 | 0. | -184410. | 1600. | 0.000 |
| MX | 0. | 8169. | 13.102 | 2.183 | 148172. | 0. | 8169. | 13.102 |
| SM | -85451672. | 1169669. | 2948.349 | 982.350 | 57917340. | -82984568. | 1169669. | 2948.349 |
| AV | -118683. | 1625. | 4.095 | 1.364 | 80441. | -115256. | 1625. | 4.095 |
| MONTHLY SUMMARY (JUL) | | | | | | | | |
| MN | -189893. | 1600. | 0.000 | 0.000 | 0. | -184410. | 1600. | 0.000 |
| MX | 0. | 1600. | 13.101 | 2.183 | 157042. | 0. | 1600. | 13.101 |
| SM | -88300054. | 1190400. | 3385.485 | 1015.095 | 6104936. | -85750720. | 1190400. | 3385.485 |
| AV | -119683. | 1600. | 4.550 | 1.364 | 82050. | -115256. | 1600. | 4.550 |

| | AC-25 | AC-22 | AC-22 | AC-22 | AC-22 | AC-22 | AC-23 | AC-23 |
|-----------------------|-------------------------------|--------------------------|---------------------------|--------------------------|-------------------------------|-------------------------------|--------------------------|---------------------------|
| | HEATING CAPACITY BTU/HR | HEATING GAS BTU/HR | COOLING ELECTRIC KW | SUPPLY ELECTRIC KW | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR | HEATING GAS BTU/HR | COOLING ELECTRIC KW |
| | ----(78) | ----(45) | ----(47) | ----(49) | ----(70) | ----(78) | ----(45) | ----(47) |
| MONTHLY SUMMARY (AUG) | | | | | | | | |
| MN | -189893. | 1600. | 0.000 | 0.000 | 0. | -184410. | 1600. | 0.000 |
| MX | 0. | 36743. | 13.161 | 2.183 | 150965. | 0. | 36743. | 13.161 |
| SM | -88489952. | 1266595. | 3455.384 | 1017.278 | 60787696. | -85935128. | 1266595. | 3455.384 |
| AV | -118938. | 1702. | 4.644 | 1.367 | 81704. | -115504. | 1702. | 4.644 |
| MONTHLY SUMMARY (SEP) | | | | | | | | |
| MN | -189893. | 1600. | 0.000 | 0.000 | 0. | -184410. | 1600. | 0.000 |
| MX | 0. | 29756. | 12.540 | 2.183 | 153427. | 0. | 29756. | 12.540 |
| SM | -85641560. | 1359830. | 2298.935 | 982.350 | 58609012. | -82984568. | 1359830. | 2298.935 |
| AV | -118947. | 1889. | 3.193 | 1.364 | 81401. | -115256. | 1889. | 3.193 |
| MONTHLY SUMMARY (OCT) | | | | | | | | |
| MN | -189893. | 1600. | 0.000 | 0.000 | 0. | -184410. | 1600. | 0.000 |
| MX | 0. | 95265. | 8.060 | 2.183 | 151507. | 0. | 95265. | 8.060 |
| SM | -90009096. | 2679423. | 1033.059 | 1023.827 | 62752536. | -86488360. | 2679423. | 1033.059 |
| AV | -120980. | 3601. | 1.389 | 1.376 | 84345. | -116248. | 3601. | 1.389 |
| MONTHLY SUMMARY (NOV) | | | | | | | | |
| MN | -189893. | 1600. | 0.000 | 0.000 | 0. | -184410. | 1600. | 0.000 |
| MX | 0. | 133762. | 5.335 | 2.183 | 160792. | 0. | 133762. | 5.335 |
| SM | -86211240. | 3858681. | 107.679 | 984.533 | 64355528. | -83168976. | 3858681. | 107.679 |
| AV | -119738. | 5359. | 0.150 | 1.367 | 89383. | -115512. | 5359. | 0.150 |
| MONTHLY SUMMARY (DEC) | | | | | | | | |
| MN | -189893. | 1600. | 0.000 | 0.000 | 0. | -184410. | 1600. | 0.000 |
| MX | 0. | 165363. | 0.027 | 2.183 | 164197. | 0. | 165363. | 0.027 |
| SM | -91718120. | 12110439. | 0.032 | 1045.657 | 71032216. | -88332464. | 12110439. | 0.032 |
| AV | -123277. | 16277. | 0.000 | 1.405 | 95473. | -118726. | 16277. | 0.000 |
| YEARLY SUMMARY | | | | | | | | |
| MN | -189893. | 1600. | 0.000 | 0.000 | 0. | -184410. | 1600. | 0.000 |
| MX | 0. | 209380. | 13.161 | 2.183 | 171210. | 0. | 209380. | 13.161 |
| SM | -1055992832. | 64761216. | 14901.045 | 12074.173 | 764449600. | -1019972544. | 64761216. | 14901.045 |
| AV | -120547. | 7393. | 1.701 | 1.378 | 87266. | -116435. | 7393. | 1.701 |

| MMDDHH | AC-23 | AC-23 | AC-23 | AC-24 | AC-24 | AC-24 | AC-24 | AC-24 |
|-----------------------|--------------------------|-------------------------------|-------------------------------|--------------------------|---------------------------|--------------------------|-------------------------------|-------------------------------|
| | SUPPLY ELECTRIC KW | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR | HEATING GAS BTU/HR | COOLING ELECTRIC KW | SUPPLY ELECTRIC KW | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR |
| | ---- | (49) | ---- | (70) | ---- | (78) | ---- | (45) |
| MONTHLY SUMMARY (JAN) | | | | | | | | |
| MN | 0.000 | 0. | -184410. | 1600. | 0.000 | 0.000 | 0. | -191388. |
| MX | 2.183 | 171210. | 0. | 225000. | 0.014 | 2.266 | 177330. | 0. |
| SM | 1043.474 | 72442536. | -88148048. | 24048806. | 0.025 | 1089.754 | 75490960. | -92057504. |
| AV | 1.403 | 97369. | -118479. | 32324. | 0.000 | 1.465 | 101466. | -123733. |
| MONTHLY SUMMARY (FEB) | | | | | | | | |
| MN | 0.000 | 0. | -184410. | 1600. | 0.000 | 0.000 | 0. | -191388. |
| MX | 2.183 | 171210. | 0. | 211167. | 0.037 | 2.266 | 177330. | 0. |
| SM | 936.507 | 63609660. | -79111960. | 18066856. | 0.103 | 985.536 | 66825552. | -83253672. |
| AV | 1.394 | 94657. | -117726. | 26885. | 0.000 | 1.467 | 99443. | -123889. |
| MONTHLY SUMMARY (MAR) | | | | | | | | |
| MN | 0.000 | 0. | -184410. | 1600. | 0.000 | 0.000 | 0. | -191388. |
| MX | 2.183 | 157388. | 0. | 177040. | 0.021 | 2.266 | 163014. | 0. |
| SM | 1023.827 | 66887660. | -86488360. | 9175492. | 0.021 | 1064.332 | 69379456. | -89952240. |
| AV | 1.376 | 89903. | -116248. | 12333. | 0.000 | 1.431 | 93252. | -120904. |
| MONTHLY SUMMARY (APR) | | | | | | | | |
| MN | 0.000 | 0. | -184410. | 1600. | 0.000 | 0.000 | 0. | -191388. |
| MX | 2.183 | 154428. | 0. | 115317. | 3.965 | 2.266 | 159948. | 0. |
| SM | 982.350 | 62437760. | -82984568. | 2922345. | 60.561 | 1019.520 | 64514848. | -86124488. |
| AV | 1.364 | 86719. | -115256. | 4059. | 0.384 | 1.416 | 89604. | -119617. |
| MONTHLY SUMMARY (MAY) | | | | | | | | |
| MN | 0.000 | 0. | -184410. | 1600. | 0.000 | 0.000 | 0. | -191388. |
| MX | 2.183 | 149344. | 0. | 89800. | 9.618 | 2.266 | 154682. | 0. |
| SM | 1036.925 | 62572768. | -87594824. | 3315951. | 1454.105 | 1082.957 | 65260496. | -91483344. |
| AV | 1.394 | 84103. | -117735. | 4457. | 1.954 | 1.456 | 87716. | -122961. |
| MONTHLY SUMMARY (JUN) | | | | | | | | |
| MN | 0.000 | 0. | -184410. | 1600. | 0.000 | 0.000 | 0. | -191388. |
| MX | 2.183 | 148172. | 0. | 18643. | 13.555 | 2.266 | 153279. | 0. |
| SM | 982.350 | 57917340. | -82984568. | 1210548. | 2937.009 | 1019.520 | 60004680. | -86124488. |
| AV | 1.364 | 80441. | -115256. | 1681. | 4.079 | 1.416 | 83340. | -119617. |
| MONTHLY SUMMARY (JUL) | | | | | | | | |
| MN | 0.000 | 0. | -184410. | 1600. | 0.000 | 0.000 | 0. | -191388. |
| MX | 2.183 | 157042. | 0. | 1600. | 13.544 | 2.266 | 162588. | 0. |
| SM | 1015.095 | 61044936. | -85750720. | 1190400. | 3421.640 | 1053.504 | 63232528. | -88995304. |
| AV | 1.364 | 82050. | -115256. | 1600. | 4.599 | 1.416 | 84990. | -119617. |

| | AC-23 | AC-23 | AC-23 | AC-24 | AC-24 | AC-24 | AC-24 | AC-24 |
|-----------------------|--------------------------|-------------------------------|-------------------------------|--------------------------|---------------------------|--------------------------|-------------------------------|-------------------------------|
| | SUPPLY ELECTRIC KW | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR | HEATING GAS BTU/HR | COOLING ELECTRIC KW | SUPPLY ELECTRIC KW | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR |
| | ----(49) | ----(70) | ----(78) | ----(45) | ----(47) | ----(49) | ----(70) | ----(78) |
| MONTHLY SUMMARY (AUG) | | | | | | | | |
| MN | 0.000 | 0. | -184410. | 1500. | 0.000 | 0.000 | 0. | -191388. |
| MX | 2.183 | 150965. | 0. | 43652. | 13.618 | 2.266 | 156303. | 0. |
| SM | 1017.278 | 60787696. | -85935129. | 1355687. | 3488.185 | 1055.770 | 62973796. | -89186688. |
| AV | 1.367 | 81704. | -115504. | 1822. | 4.688 | 1.419 | 84642. | -119875. |
| MONTHLY SUMMARY (SEP) | | | | | | | | |
| MN | 0.000 | 0. | -184410. | 1500. | 0.000 | 0.000 | 0. | -191388. |
| MX | 2.183 | 153427. | 0. | 38990. | 12.974 | 2.266 | 158532. | 0. |
| SM | 982.350 | 58609012. | -82984568. | 1546757. | 2286.524 | 1019.520 | 60707816. | -86124488. |
| AV | 1.364 | 81401. | -115256. | 2148. | 3.176 | 1.416 | 84316. | -119617. |
| MONTHLY SUMMARY (OCT) | | | | | | | | |
| MN | 0.000 | 0. | -184410. | 1500. | 0.000 | 0.000 | 0. | -191388. |
| MX | 2.183 | 151507. | 0. | 112012. | 8.088 | 2.266 | 156923. | 0. |
| SM | 1023.827 | 62752536. | -86488360. | 3619568. | 953.120 | 1071.629 | 65564224. | -90526408. |
| AV | 1.376 | 84345. | -116248. | 4865. | 1.281 | 1.440 | 88124. | -121675. |
| MONTHLY SUMMARY (NOV) | | | | | | | | |
| MN | 0.000 | 0. | -184410. | 1500. | 0.000 | 0.000 | 0. | -191388. |
| MX | 2.183 | 160792. | 0. | 157251. | 5.572 | 2.266 | 165694. | 0. |
| SM | 984.533 | 64355528. | -83168976. | 6250087. | 85.273 | 1028.583 | 67052440. | -86890040. |
| AV | 1.367 | 89383. | -115512. | 8695. | 0.118 | 1.429 | 93128. | -120681. |
| MONTHLY SUMMARY (DEC) | | | | | | | | |
| MN | 0.000 | 0. | -184410. | 1500. | 0.000 | 0.000 | 0. | -191388. |
| MX | 2.183 | 164197. | 0. | 180416. | 0.017 | 2.266 | 170066. | 0. |
| SM | 1045.657 | 71032216. | -88332464. | 17764408. | 0.017 | 1094.285 | 74201704. | -92440288. |
| AV | 1.405 | 95473. | -118726. | 23877. | 0.000 | 1.471 | 99733. | -124248. |
| YEARLY SUMMARY | | | | | | | | |
| MN | 0.000 | 0. | -184410. | 1500. | 0.000 | 0.000 | 0. | -191388. |
| MX | 2.183 | 171210. | 0. | 225000. | 13.618 | 2.266 | 177330. | 0. |
| SM | 12074.173 | 764449600. | -1019972544. | 90476904. | 14686.584 | 12585.410 | 795208448. | -1063158912. |
| AV | 1.378 | 87266. | -116435. | 10328. | 1.677 | 1.437 | 90777. | -121365. |

| MMDDHH | AC_FRONT | AC_FRONT | AC_FRONT | AC_FRONT | AC_FRONT |
|-----------------------|--------------------------|---------------------------|--------------------------|-------------------------------|-------------------------------|
| | HEATING GAS BTU/HR | COOLING ELECTRIC KW | SUPPLY ELECTRIC KW | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR |
| | ----(45) | ----(47) | ----(49) | ----(70) | ----(78) |
| MONTHLY SUMMARY (JAN) | | | | | |
| MN | 1600. | 0.000 | 0.000 | 0. | -379785. |
| MX | 510228. | 0.000 | 4.496 | 346317. | 0. |
| SM | 104640936. | 0.000 | 2198.446 | 150072640. | -185714960. |
| AV | 140646. | 0.000 | 2.955 | 201711. | -249617. |
| MONTHLY SUMMARY (FEB) | | | | | |
| MN | 1600. | 0.000 | 0.000 | 0. | -379785. |
| MX | 511097. | 0.000 | 4.496 | 346317. | 0. |
| SM | 87014192. | 0.000 | 2014.118 | 134754608. | -170143776. |
| AV | 129485. | 0.000 | 2.997 | 200528. | -253190. |
| MONTHLY SUMMARY (MAR) | | | | | |
| MN | 1600. | 0.000 | 0.000 | 0. | -379785. |
| MX | 456563. | 0.037 | 4.496 | 319870. | 0. |
| SM | 58908284. | 0.067 | 2135.505 | 136893488. | -180397984. |
| AV | 79178. | 0.000 | 2.870 | 183997. | -242470. |
| MONTHLY SUMMARY (APR) | | | | | |
| MN | 1600. | 0.000 | 0.000 | 0. | -379785. |
| MX | 366213. | 0.044 | 4.496 | 312371. | 0. |
| SM | 22665174. | 0.084 | 2023.110 | 124554704. | -170903344. |
| AV | 31479. | 0.000 | 2.810 | 172993. | -237366. |
| MONTHLY SUMMARY (MAY) | | | | | |
| MN | 1600. | 0.000 | 0.000 | 0. | -379785. |
| MX | 272342. | 16.338 | 4.496 | 302088. | 0. |
| SM | 17417818. | 1615.261 | 2265.883 | 134985248. | -191411776. |
| AV | 23411. | 2.171 | 3.046 | 181432. | -257274. |
| MONTHLY SUMMARY (JUN) | | | | | |
| MN | 1600. | 0.000 | 0.000 | 0. | -379785. |
| MX | 96079. | 26.557 | 4.496 | 297325. | 0. |
| SM | 2447781. | 4471.783 | 2041.093 | 119141760. | -172422480. |
| AV | 3400. | 6.211 | 2.835 | 165475. | -239476. |
| MONTHLY SUMMARY (JUL) | | | | | |
| MN | 1600. | 0.000 | 0.000 | 0. | -379785. |
| MX | 17047. | 26.554 | 4.496 | 315543. | 0. |
| SM | 1205847. | 5592.173 | 2090.547 | 124441592. | -176600128. |
| AV | 1621. | 7.516 | 2.810 | 167260. | -237366. |

| | AC_FRONT | AC_FRONT | AC_FRONT | AC_FRONT | AC_FRONT |
|-----------------------|--------------------------|---------------------------|--------------------------|-------------------------------|-------------------------------|
| | HEATING GAS BTU/HR | COOLING ELECTRIC KW | SUPPLY ELECTRIC KW | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR |
| | ----(45) | ----(47) | ----(49) | ----(70) | ----(78) |
| MONTHLY SUMMARY (AUG) | | | | | |
| MN | 1600. | 0.000 | 0.000 | 0. | -379785. |
| MX | 123621. | 26.828 | 4.496 | 305176. | 0. |
| SM | 2571889. | 5470.581 | 2104.034 | 124617816. | -177739472. |
| AV | 3457. | 7.353 | 2.828 | 167497. | -238897. |
| MONTHLY SUMMARY (SEP) | | | | | |
| MN | 1600. | 0.000 | 0.000 | 0. | -379785. |
| MX | 144546. | 23.770 | 4.496 | 306481. | 0. |
| SM | 6318722. | 3069.042 | 2104.034 | 123921768. | -177739456. |
| AV | 8776. | 4.263 | 2.922 | 172114. | -246860. |
| MONTHLY SUMMARY (OCT) | | | | | |
| MN | 1600. | 0.000 | 0.000 | 0. | -379785. |
| MX | 347263. | 12.073 | 4.496 | 306464. | 0. |
| SM | 21426196. | 658.032 | 2225.421 | 134198952. | -187993696. |
| AV | 28799. | 0.884 | 2.991 | 180375. | -252680. |
| MONTHLY SUMMARY (NOV) | | | | | |
| MN | 1600. | 0.000 | 0.000 | 0. | -379785. |
| MX | 457780. | 0.017 | 4.496 | 312371. | 0. |
| SM | 45126656. | 0.053 | 2072.564 | 132452408. | -175080944. |
| AV | 62676. | 0.000 | 2.879 | 183962. | -243168. |
| MONTHLY SUMMARY (DEC) | | | | | |
| MN | 1600. | 0.000 | 0.000 | 0. | -379785. |
| MX | 457328. | 0.000 | 4.496 | 332132. | 0. |
| SM | 91304520. | 0.000 | 2207.438 | 147398560. | -186474528. |
| AV | 122721. | 0.000 | 2.967 | 198116. | -250638. |
| YEARLY SUMMARY | | | | | |
| MN | 1600. | 0.000 | 0.000 | 0. | -379785. |
| MX | 511097. | 26.828 | 4.496 | 346317. | 0. |
| SM | 461048064. | 20877.078 | 25482.197 | 1587433344. | -2152622848. |
| AV | 52631. | 2.383 | 2.909 | 181214. | -245733. |

| MMDDHH | AC_3_8 | AC_3_8 | AC_3_8 | AC_3_8 | AC_3_8 | AC-1_2 | AC-1_2 | AC-1_2 |
|-----------------------|--------------------|---------------------|--------------------|-------------------------|-------------------------|--------------------|---------------------|--------------------|
| | HEATING GAS BTU/HR | COOLING ELECTRIC KW | SUPPLY ELECTRIC KW | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR | HEATING GAS BTU/HR | COOLING ELECTRIC KW | SUPPLY ELECTRIC KW |
| | ---- (45) | ---- (47) | ---- (49) | ---- (70) | ---- (78) | ---- (45) | ---- (47) | ---- (49) |
| MONTHLY SUMMARY (JAN) | | | | | | | | |
| MN | 1600. | 0.000 | 0.000 | 0. | -675339. | 1600. | 0.000 | 0.000 |
| MX | 832848. | 0.000 | 6.171 | 540233. | 0. | 737233. | 0.000 | 6.590 |
| SM | 153633472. | 0.000 | 3030.158 | 235102800. | -331591328. | 141700576. | 0.000 | 3202.886 |
| AV | 206497. | 0.000 | 4.073 | 315998. | -445687. | 190458. | 0.000 | 4.305 |
| MONTHLY SUMMARY (FEB) | | | | | | | | |
| MN | 1600. | 0.000 | 0.000 | 0. | -675339. | 1600. | 0.000 | 0.000 |
| MX | 805260. | 0.022 | 6.171 | 540233. | 0. | 726443. | 0.000 | 6.590 |
| SM | 122273624. | 0.022 | 2764.788 | 210208848. | -302551744. | 112266488. | 0.000 | 2919.503 |
| AV | 181955. | 0.000 | 4.114 | 312811. | -450226. | 167063. | 0.000 | 4.344 |
| MONTHLY SUMMARY (MAR) | | | | | | | | |
| MN | 1600. | 0.000 | 0.000 | 0. | -675339. | 1600. | 0.000 | 0.000 |
| MX | 623133. | 0.026 | 6.171 | 498977. | 0. | 665536. | 0.055 | 6.590 |
| SM | 80023848. | 0.026 | 2937.587 | 213988032. | -321461216. | 73217440. | 0.066 | 3110.622 |
| AV | 107559. | 0.000 | 3.948 | 287618. | -432072. | 98411. | 0.000 | 4.181 |
| MONTHLY SUMMARY (APR) | | | | | | | | |
| MN | 1600. | 0.000 | 0.000 | 0. | -675339. | 1600. | 0.000 | 0.000 |
| MX | 521193. | 0.042 | 6.171 | 487280. | 0. | 502664. | 0.008 | 6.590 |
| SM | 30439260. | 0.072 | 2777.131 | 194114048. | -303902400. | 27199544. | 0.003 | 2965.635 |
| AV | 42277. | 0.000 | 3.857 | 269603. | -422087. | 37777. | 0.000 | 4.119 |
| MONTHLY SUMMARY (MAY) | | | | | | | | |
| MN | 1600. | 0.000 | 0.000 | 0. | -675339. | 1600. | 0.000 | 0.000 |
| MX | 425613. | 26.719 | 6.171 | 471238. | 0. | 369383. | 24.385 | 6.590 |
| SM | 24479270. | 2745.316 | 3042.501 | 205842432. | -332941984. | 21963516. | 2583.402 | 3301.740 |
| AV | 32902. | 3.690 | 4.089 | 276670. | -447503. | 29521. | 3.472 | 4.438 |
| MONTHLY SUMMARY (JUN) | | | | | | | | |
| MN | 1600. | 0.000 | 0.000 | 0. | -675339. | 1600. | 0.000 | 0.000 |
| MX | 150275. | 42.747 | 6.171 | 466078. | 0. | 145486. | 38.285 | 6.590 |
| SM | 2592877. | 7600.834 | 2789.473 | 186456896. | -305253088. | 2581322. | 6848.656 | 2985.406 |
| AV | 4157. | 10.557 | 3.874 | 258968. | -423963. | 3536. | 9.512 | 4.146 |
| MONTHLY SUMMARY (JUL) | | | | | | | | |
| MN | 1600. | 0.000 | 0.000 | 0. | -675339. | 1600. | 0.000 | 0.000 |
| MX | 50444. | 41.213 | 6.171 | 494582. | 0. | 19336. | 38.426 | 6.590 |
| SM | 1311290. | 9460.715 | 2869.702 | 196751008. | -314032480. | 1208136. | 8412.323 | 3064.490 |
| AV | 1762. | 12.716 | 3.857 | 264450. | -422087. | 1624. | 11.308 | 4.119 |

| | AC_3_8 | AC_3_8 | AC_3_8 | AC_3_8 | AC_3_8 | AC-1_2 | AC-1_2 | AC-1_2 |
|-----------------------|--------------------------|---------------------------|--------------------------|-------------------------------|-------------------------------|--------------------------|---------------------------|--------------------------|
| | HEATING GAS BTU/HR | COOLING ELECTRIC KW | SUPPLY ELECTRIC KW | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR | HEATING GAS BTU/HR | COOLING ELECTRIC KW | SUPPLY ELECTRIC KW |
| | ----(45) | ----(47) | ----(49) | ----(70) | ----(78) | ----(45) | ----(47) | ----(49) |
| MONTHLY SUMMARY (AUG) | | | | | | | | |
| MN | 1600. | 0.000 | 0.000 | 0. | -675339. | 1600. | 0.000 | 0.000 |
| MX | 194456. | 42.187 | 6.171 | 474890. | 0. | 169238. | 38.406 | 6.590 |
| SM | 2849411. | 9379.327 | 2882.044 | 196589648. | -315383168. | 2914916. | 8334.772 | 3077.670 |
| AV | 3830. | 12.607 | 3.874 | 264233. | -423902. | 3918. | 11.203 | 4.137 |
| MONTHLY SUMMARY (SEP) | | | | | | | | |
| MN | 1600. | 0.000 | 0.000 | 0. | -675339. | 1600. | 0.000 | 0.000 |
| MX | 257325. | 39.691 | 6.171 | 481120. | 0. | 210221. | 35.489 | 6.590 |
| SM | 8185074. | 5306.839 | 2838.844 | 191056272. | -310655776. | 7610980. | 4798.040 | 3057.899 |
| AV | 11368. | 7.371 | 3.943 | 265356. | -431466. | 10571. | 6.664 | 4.247 |
| MONTHLY SUMMARY (OCT) | | | | | | | | |
| MN | 1600. | 0.000 | 0.000 | 0. | -675339. | 1600. | 0.000 | 0.000 |
| MX | 475471. | 21.313 | 6.171 | 478065. | 0. | 490815. | 17.654 | 6.590 |
| SM | 28540580. | 1269.425 | 3011.644 | 205999360. | -329565248. | 25990076. | 1084.975 | 3249.018 |
| AV | 38361. | 1.706 | 4.048 | 276881. | -442964. | 34933. | 1.458 | 4.367 |
| MONTHLY SUMMARY (NOV) | | | | | | | | |
| MN | 1600. | 0.000 | 0.000 | 0. | -675339. | 1600. | 0.000 | 0.000 |
| MX | 573722. | 3.113 | 6.171 | 487280. | 0. | 523263. | 0.085 | 6.590 |
| SM | 62027612. | 12.120 | 2851.187 | 206921776. | -312006432. | 58059788. | 0.127 | 3031.538 |
| AV | 86149. | 0.017 | 3.960 | 287391. | -433342. | 80639. | 0.000 | 4.210 |
| MONTHLY SUMMARY (DEC) | | | | | | | | |
| MN | 1600. | 0.000 | 0.000 | 0. | -675339. | 1600. | 0.000 | 0.000 |
| MX | 661587. | 0.000 | 6.171 | 518105. | 0. | 671273. | 0.000 | 6.590 |
| SM | 130335024. | 0.000 | 3030.158 | 229909312. | -331591296. | 121289976. | 0.000 | 3216.067 |
| AV | 175191. | 0.000 | 4.073 | 309018. | -445687. | 163024. | 0.000 | 4.323 |
| YEARLY SUMMARY | | | | | | | | |
| MN | 1600. | 0.000 | 0.000 | 0. | -675339. | 1600. | 0.000 | 0.000 |
| MX | 332848. | 42.747 | 6.171 | 540233. | 0. | 737233. | 38.426 | 6.590 |
| SM | 647091328. | 35774.699 | 34825.219 | 2472940544. | -3810935808. | 596003328. | 32062.867 | 37182.473 |
| AV | 73869. | 4.084 | 3.975 | 282299. | -435038. | 68037. | 3.660 | 4.245 |

| MMDDHH | AC_1_2 | AC_1_2 | AC_EXP | AC_EXP | AC_EXP | AC_EXP | AC_EXP |
|-----------------------|-------------------------------|-------------------------------|--------------------------|---------------------------|--------------------------|-------------------------------|-------------------------------|
| | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR | HEATING GAS BTU/HR | COOLING ELECTRIC KW | SUPPLY ELECTRIC KW | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR |
| | ----(70) | ----(78) | ----(45) | ----(47) | ----(49) | ----(70) | ----(78) |
| MONTHLY SUMMARY (JAN) | | | | | | | |
| MN | 0. | -556719. | 1600. | 0.000 | 0.000 | 0. | -521332. |
| MX | 503066. | 0. | 702198. | 0.000 | 6.171 | 470959. | 0. |
| SM | 216581712. | -270565440. | 178185584. | 0.000 | 3030.158 | 204950944. | -255974208. |
| AV | 291104. | -363663. | 239497. | 0.000 | 4.073 | 279472. | -344051. |
| MONTHLY SUMMARY (FEB) | | | | | | | |
| MN | 0. | -556719. | 1600. | 0.000 | 0.000 | 0. | -521332. |
| MX | 503066. | 0. | 707114. | 0.000 | 6.171 | 470959. | 0. |
| SM | 193307200. | -246626528. | 151084224. | 0.000 | 2777.131 | 184122000. | -234599552. |
| AV | 287660. | -367004. | 224828. | 0.000 | 4.133 | 273991. | -349106. |
| MONTHLY SUMMARY (MAR) | | | | | | | |
| MN | 0. | -556719. | 1600. | 0.000 | 0.000 | 0. | -521332. |
| MX | 462455. | 0. | 683642. | 0.000 | 6.171 | 434992. | 0. |
| SM | 197482896. | -262771360. | 116119720. | 0.000 | 2949.930 | 187375808. | -249196864. |
| AV | 265434. | -353187. | 156075. | 0.000 | 3.965 | 251349. | -334942. |
| MONTHLY SUMMARY (APR) | | | | | | | |
| MN | 0. | -556719. | 1600. | 0.000 | 0.000 | 0. | -521332. |
| MX | 453756. | 0. | 578304. | 0.033 | 6.171 | 424795. | 0. |
| SM | 181035488. | -250523552. | 57130036. | 0.062 | 2789.474 | 169749696. | -235642224. |
| AV | 251438. | -347949. | 79347. | 0.000 | 3.874 | 235763. | -327281. |
| MONTHLY SUMMARY (MAY) | | | | | | | |
| MN | 0. | -556719. | 1600. | 0.000 | 0.000 | 0. | -521332. |
| MX | 438813. | 0. | 417429. | 15.874 | 6.171 | 423811. | 0. |
| SM | 194594640. | -278916256. | 43972004. | 1128.736 | 3326.385 | 196875392. | -230998176. |
| AV | 261552. | -374887. | 59102. | 1.517 | 4.471 | 264617. | -377686. |
| MONTHLY SUMMARY (JUN) | | | | | | | |
| MN | 0. | -556719. | 1600. | 0.000 | 0.000 | 0. | -521332. |
| MX | 431935. | 0. | 175803. | 33.047 | 6.171 | 402960. | 0. |
| SM | 171685712. | -252193712. | 8290745. | 4374.082 | 2894.387 | 158223008. | -244504896. |
| AV | 238452. | -350269. | 11515. | 6.075 | 4.020 | 233651. | -339590. |
| MONTHLY SUMMARY (JUL) | | | | | | | |
| MN | 0. | -556719. | 1600. | 0.000 | 0.000 | 0. | -521332. |
| MX | 458415. | 0. | 82800. | 36.061 | 6.171 | 436567. | 0. |
| SM | 179588432. | -258874336. | 1982693. | 5754.853 | 2869.702 | 169957920. | -242419536. |
| AV | 241382. | -347949. | 2665. | 7.735 | 3.857 | 226438. | -325833. |

| | AC-1_2 | AC-1_2 | AC_EXP | AC_EXP | AC_EXP | AC_EXP | AC_EXP |
|-----------------------|-------------------------------|-------------------------------|--------------------------|---------------------------|--------------------------|-------------------------------|-------------------------------|
| | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR | HEATING GAS BTU/HR | COOLING ELECTRIC KW | SUPPLY ELECTRIC KW | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR |
| | ----(70) | ----(78) | ----(45) | ----(47) | ----(49) | ----(70) | ----(78) |
| MONTHLY SUMMARY (AUG) | | | | | | | |
| MN | 0. | -556719. | 1600. | 0.000 | 0.000 | 0. | -521332. |
| MX | 442854. | 0. | 193980. | 34.079 | 6.171 | 412019. | 0. |
| SM | 179415840. | -259987776. | 5437971. | 5609.399 | 2925.244 | 172573360. | -247111536. |
| AV | 241150. | -349446. | 7309. | 7.540 | 3.932 | 231953. | -332139. |
| MONTHLY SUMMARY (SEP) | | | | | | | |
| MN | 0. | -556719. | 1600. | 0.000 | 0.000 | 0. | -521332. |
| MX | 445032. | 0. | 246051. | 26.776 | 6.171 | 414408. | 0. |
| SM | 177876240. | -258317632. | 17260532. | 2803.795 | 3042.500 | 178090128. | -257016880. |
| AV | 247050. | -358775. | 23973. | 3.894 | 4.226 | 247347. | -356968. |
| MONTHLY SUMMARY (OCT) | | | | | | | |
| MN | 0. | -556719. | 1600. | 0.000 | 0.000 | 0. | -521332. |
| MX | 445175. | 0. | 563664. | 11.061 | 6.171 | 416762. | 0. |
| SM | 194015360. | -274462464. | 50109640. | 369.307 | 3165.929 | 189011104. | -267443504. |
| AV | 260773. | -368901. | 67352. | 0.496 | 4.255 | 254047. | -359467. |
| MONTHLY SUMMARY (NOV) | | | | | | | |
| MN | 0. | -556719. | 1600. | 0.000 | 0.000 | 0. | -521332. |
| MX | 453756. | 0. | 639458. | 0.000 | 6.171 | 424795. | 0. |
| SM | 192081440. | -256090752. | 88326768. | 0.000 | 2863.530 | 180931040. | -241898208. |
| AV | 266780. | -355682. | 122676. | 0.000 | 3.977 | 251293. | -335970. |
| MONTHLY SUMMARY (DEC) | | | | | | | |
| MN | 0. | -556719. | 1600. | 0.000 | 0.000 | 0. | -521332. |
| MX | 482461. | 0. | 676279. | 0.000 | 6.171 | 451668. | 0. |
| SM | 212702576. | -271678880. | 157974160. | 0.000 | 3036.329 | 200869760. | -256495520. |
| AV | 285891. | -365160. | 212331. | 0.000 | 4.081 | 269986. | -344752. |
| YEARLY SUMMARY | | | | | | | |
| MN | 0. | -556719. | 1600. | 0.000 | 0.000 | 0. | -521332. |
| MX | 503066. | 0. | 707114. | 36.061 | 6.171 | 470959. | 0. |
| SM | 2290367488. | -3141008896. | 875874112. | 20040.232 | 35670.699 | 2202736128. | -3013301248. |
| AV | 261457. | -358563. | 99986. | 2.288 | 4.072 | 251454. | -343984. |

ENTECH ENGINEERING
READING, PA 19603
REPORT- PV-A EQUIPMENT SIZES

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
FT. GEORGE G. MEADE

DOE-2.1D 6/12/1996 9:17:26 PDL RUN 1
BUILDING 2790 - NEW
WEATHER FILE- BALTIMORE, MD

| EQUIPMENT | NUMBER | | NUMBER | | NUMBER | | NUMBER | | NUMBER | |
|-----------|----------|-------|----------|-------|----------|-------|----------|-------|----------|-------|
| | SIZE | INSTD | SIZE | INSTD | SIZE | INSTD | SIZE | INSTD | SIZE | INSTD |
| | (MBTU/H) | AVAIL | (MBTU/H) | AVAIL | (MBTU/H) | AVAIL | (MBTU/H) | AVAIL | (MBTU/H) | AVAIL |
| HW-BOILER | 0.000 | 1 | 1 | | | | | | | |

| S I T E E N E R G Y | | | | | | | | | | | | | * SOURCE |
|-----------------------|-----------------------|--------------------------|-------------------------|------------------|-----------------------------|--------------------------|--------------------------|--------------------------|--------------------------|------------------------|------------------------|-------------------------|---------------------------|
| | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| MONTH | TOTAL HEAT LOAD | TOTAL COOLING LOAD | TOTAL ELECTR LOAD | RCVRED ENERGY | WASTED RCVRABL ENERGY | FUEL INPUT COOLING | ELEC INPUT COOLING | FUEL INPUT HEATING | ELEC INPUT HEATING | FUEL INPUT ELECT | TOTAL FUEL INPUT | TOTAL SITE ENERGY | TOTAL SOURCE ENERGY |
| JAN | 0.0 | 0.0 | 338.1 99.0E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 0.0 | 0.0 0.0E | 0.0 | 726.0 | 1064.2 | 1741.4 |
| FEB | 0.0 | 0.0 | 301.3 88.2E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 0.0 | 0.0 0.0E | 0.0 | 584.4 | 885.7 | 1489.2 |
| MAR | 0.0 | 0.0 | 345.7 101.2E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 0.0 | 0.0 0.0E | 0.0 | 380.9 | 726.6 | 1419.0 |
| APR | 0.0 | 0.0 | 335.9 98.4E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 0.0 | 0.0 0.0E | 0.0 | 154.3 | 490.1 | 1162.9 |
| MAY | 0.0 | 0.0 | 399.4 117.0E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 0.0 | 0.0 0.0E | 0.0 | 128.8 | 528.2 | 1328.3 |
| JUN | 0.0 | 0.0 | 492.5 144.2E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 0.0 | 0.0 0.0E | 0.0 | 25.7 | 518.2 | 1504.7 |
| JUL | 0.0 | 0.0 | 518.2 151.8E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 0.0 | 0.0 0.0E | 0.0 | 15.2 | 533.4 | 1571.3 |
| AUG | 0.0 | 0.0 | 537.3 157.4E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 0.0 | 0.0 0.0E | 0.0 | 24.0 | 561.4 | 1537.6 |
| SEP | 0.0 | 0.0 | 441.9 129.4E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 0.0 | 0.0 0.0E | 0.0 | 50.6 | 492.4 | 1377.5 |
| OCT | 0.0 | 0.0 | 368.4 107.9E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 0.0 | 0.0 0.0E | 0.0 | 148.8 | 517.2 | 1255.2 |
| NOV | 0.0 | 0.0 | 317.9 93.1E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 0.0 | 0.0 0.0E | 0.0 | 288.2 | 606.1 | 1243.0 |
| DEC | 0.0 | 0.0 | 338.3 99.1E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 0.0 | 0.0 0.0E | 0.0 | 604.8 | 943.1 | 1620.6 |
| ===== | 0.0 | 0.0 | 4734.9 1386.7E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 0.0 | 0.0 0.0E | 0.0 | 3131.8 | 7866.7 | 17350.6 |

NOTE-- ALL ENTRIES ARE IN MBTU EXCEPT
 ENTRIES FOLLOWED BY E ARE IN MWH (THOUSANDS OF KWH)

| MO | UTILITY- | ELECTRICITY | FUEL-OIL | NATURAL-GAS |
|-----|--------------|-------------|----------|-------------|
| | TOTAL (MBTU) | 338.113 | 0.000 | 726.047 |
| JAN | PEAK (KBTU) | 878.187 | 0.000 | 4313.148 |
| | DY/HR | 6/ 9 | 31/24 | 31/ 7 |
| | TOTAL (MBTU) | 301.281 | 0.000 | 584.444 |
| FEB | PEAK (KBTU) | 878.288 | 0.000 | 4110.207 |
| | DY/HR | 10/ 9 | 28/24 | 14/ 7 |
| | TOTAL (MBTU) | 345.703 | 0.000 | 380.894 |
| MAR | PEAK (KBTU) | 882.525 | 0.000 | 3713.113 |
| | DY/HR | 26/17 | 31/24 | 7/ 7 |
| | TOTAL (MBTU) | 335.879 | 0.000 | 154.259 |
| APR | PEAK (KBTU) | 1002.506 | 0.000 | 2676.223 |
| | DY/HR | 19/19 | 30/ 1 | 9/ 7 |
| | TOTAL (MBTU) | 399.434 | 0.000 | 128.767 |
| MAY | PEAK (KBTU) | 1420.594 | 0.000 | 1985.947 |
| | DY/HR | 21/17 | 31/ 1 | 10/ 7 |
| | TOTAL (MBTU) | 492.481 | 0.000 | 25.731 |
| JUN | PEAK (KBTU) | 1714.944 | 0.000 | 565.396 |
| | DY/HR | 28/17 | 30/ 1 | 22/ 7 |
| | TOTAL (MBTU) | 518.159 | 0.000 | 15.231 |
| JUL | PEAK (KBTU) | 1719.635 | 0.000 | 182.427 |
| | DY/HR | 25/14 | 31/ 1 | 21/ 7 |
| | TOTAL (MBTU) | 537.338 | 0.000 | 24.020 |
| AUG | PEAK (KBTU) | 1720.256 | 0.000 | 778.330 |
| | DY/HR | 18/17 | 31/ 1 | 22/ 5 |
| | TOTAL (MBTU) | 441.874 | 0.000 | 50.550 |
| SEP | PEAK (KBTU) | 1649.336 | 0.000 | 1013.475 |
| | DY/HR | 1/17 | 30/ 1 | 30/ 7 |
| | TOTAL (MBTU) | 368.426 | 0.000 | 148.790 |
| OCT | PEAK (KBTU) | 1304.860 | 0.000 | 2655.984 |
| | DY/HR | 13/17 | 31/24 | 24/ 7 |
| | TOTAL (MBTU) | 317.933 | 0.000 | 288.212 |
| NOV | PEAK (KBTU) | 1046.613 | 0.000 | 3374.264 |
| | DY/HR | 2/19 | 30/24 | 25/ 7 |
| | TOTAL (MBTU) | 338.263 | 0.000 | 604.834 |
| DEC | PEAK (KBTU) | 878.187 | 0.000 | 3753.023 |
| | DY/HR | 31/ 9 | 31/24 | 12/ 7 |
| | ONE YEAR | 4734.883 | 0.000 | 3131.780 |
| | USE/PEAK | 1720.256 | 0.000 | 4313.148 |

ENTECH ENGINEERING
READING, PA 19603
REPORT- PS-D PLANT LOADS SATISFIED

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
FT. GEORGE G. MEADE

DOE-2.1D 6/12/1996 9:17:26 PDL RUN 1
BUILDING 2790 - NEW
WEATHER FILE- BALTIMORE, MD

| ELECTRICAL LOADS | MBTU SUPPLIED | PCT OF TOTAL LOAD |
|---------------------|---------------|-------------------|
| ELECTRICITY | 4734.9 | 100.0 |
| LOAD SATISFIED | 4734.9 | 100.0 |
| TOTAL LOAD ON PLANT | 4734.9 | |

ENTECH ENGINEERING
READING, PA 19603
REPORT- PS-D PLANT LOADS SATISFIED

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
FT. GEORGE G. MEADE

DOE-2.1D 6/12/1996 9:17:26 PDL RUN 1
BUILDING 2790 - NEW
WEATHER FILE- BALTIMORE, MD
(CONTINUED)

SUMMARY OF LOADS MET

| TYPE OF LOAD | TOTAL LOAD (MBTU) | LOAD SATISFIED (MBTU) | TOTAL OVERLOAD (MBTU) | PEAK OVERLOAD (MBTU) | HOURS OVERLOADED |
|------------------|-------------------------|-----------------------------|-----------------------------|----------------------------|---------------------|
| ELECTRICAL LOADS | 4734.9 | 4734.9 | 0.000 | 0.000 | 0 |

ENTECH ENGINEERING
READING, PA 19603
REPORT- PS-H EQUIPMENT USE STATISTICS

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
FT. GEORGE G. MEADE

DOE-2.1D 6/12/1996 9:17:26 PDL RUN 1
BUILDING 2790 - NEW
WEATHER FILE- BALTIMORE, MD

| EQUIPMENT | AVG | MAX | MON | | --- | | --- | | --- | | --- | | --- | |
|-----------|---------------|----------------|-----|----|----------------|-------------|----------------|-------------|----------------|-------------|----------------|-------------|----------------|-------------|
| | OPER RATIO | LOAD (MBTU) | DAY | HR | SIZE (MBTU) | OPER HRS | SIZE (MBTU) | OPER HRS | SIZE (MBTU) | OPER HRS | SIZE (MBTU) | OPER HRS | SIZE (MBTU) | OPER HRS |
| HW-BOILER | 0.000 | 0.000 | 0 | 0 | 0 | 0.000 | 0 | | | | | | | |

EQUIPMENT TOTALS

| | | | | |
|-----------------|-----------------------|-----|-----|-------|
| HW-BOILER | | 0.1 | | 0.000 |
| | NOMINAL SIZE (MBTU) | | | |
| | NUMBER INSTALLED | | | 1 |
| | FIRST COST (K\$) | | 0.0 | 0.0 |
| | ANNUAL COST (K\$) | | 0.1 | 0.1 |
| | CYCLICAL COST (K\$) | | 0.0 | 0.0 |
| | -----TOTAL----- (K\$) | | | 0.1 |
| <hr/> | | | | |
| EQUIPMENT TOTAL | | 0.1 | | |

| ENERGY TYPE IN SITE MBTU - | ELECTRICITY | FUEL-OIL | NATURAL-GAS |
|-------------------------------|-------------|----------|-------------|
| CATEGORY OF USE | | | |
| SPACE HEAT | 0.00 | 0.00 | 3131.78 |
| SPACE COOL | 775.91 | 0.00 | 0.00 |
| HVAC AUX | 784.31 | 0.00 | 0.00 |
| DOM HOT WTR | 0.00 | 0.00 | 0.00 |
| AUX SOLAR | 0.00 | 0.00 | 0.00 |
| LIGHTS | 2778.61 | 0.00 | 0.00 |
| VERT TRANS | 0.00 | 0.00 | 0.00 |
| MISC EQUIP | 396.18 | 0.00 | 0.00 |
| TOTAL | 4735.01 | 0.00 | 3131.78 |

TOTAL SITE ENERGY 7866.66 MBTU 100.3 KBTU/SQFT-YR GROSS-AREA 100.3 KBTU/SQFT-YR NET-AREA
 TOTAL SOURCE ENERGY 17350.65 MBTU 221.2 KBTU/SQFT-YR GROSS-AREA 221.2 KBTU/SQFT-YR NET-AREA

PERCENT OF HOURS ANY SYSTEM ZONE OUTSIDE OF THROTTLING RANGE = 1.3
 PERCENT OF HOURS ANY PLANT LOAD NOT SATISFIED = 0.0

NOTE ELECTRICITY AND/OR FUEL USED TO GENERATE ELECTRICITY IS APPORTIONED BASED
 ON THE YEARLY DEMAND. ALL OTHER ENERGY TYPES ARE APPORTIONED HOURLY.

ENTECH ENGINEERING EZZOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 6/12/1996 9:34:28 SDL RUN 1
 READING, PA 19603 FT. GEORGE G. MEADE BUILDING 2790 - NEW

SH-1 = HOURLY-REPORT PAGE 1- 1

| MMDDHH | AC-17 | AC-17 | AC-17 | AC-17 | AC-17 | AC-18 | AC-18 | AC-18 |
|-----------------------|---------------------------|--------------------------|--------------------------|-------------------------------|-------------------------------|--------------------------|---------------------------|--------------------------|
| | COOLING ELECTRIC KW | SUPPLY ELECTRIC KW | HEATING GAS BTU/HR | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR | HEATING GAS BTU/HR | COOLING ELECTRIC KW | SUPPLY ELECTRIC KW |
| | ----(47) | ----(49) | ----(45) | ----(70) | ----(78) | ----(45) | ----(47) | ----(49) |
| MONTHLY SUMMARY (JAN) | | | | | | | | |
| MN | 0.000 | 0.000 | 1600. | 0. | -182915. | 1600. | 0.000 | 0.000 |
| MX | 0.048 | 2.165 | 214430. | 169898. | 0. | 190751. | 0.033 | 2.106 |
| SM | 0.078 | 1024.187 | 16621206. | 71152744. | -86518744. | 9901319. | 0.033 | 994.173 |
| AV | 0.000 | 1.377 | 22340. | 95635. | -116289. | 13308. | 0.000 | 1.336 |
| MONTHLY SUMMARY (FEB) | | | | | | | | |
| MN | 0.000 | 0.000 | 1600. | 0. | -182915. | 1600. | 0.000 | 0.000 |
| MX | 0.066 | 2.165 | 198835. | 169898. | 0. | 180392. | 0.049 | 2.106 |
| SM | 0.077 | 922.418 | 13001659. | 62689856. | -77921744. | 9429851. | 0.061 | 893.071 |
| AV | 0.000 | 1.373 | 19348. | 93288. | -115955. | 12544. | 0.000 | 1.329 |
| MONTHLY SUMMARY (MAR) | | | | | | | | |
| MN | 0.000 | 0.000 | 1600. | 0. | -182915. | 1600. | 0.000 | 0.000 |
| MX | 0.037 | 2.165 | 164339. | 156182. | 0. | 136881. | 1.438 | 2.106 |
| SM | 0.037 | 1011.195 | 5917055. | 66060644. | -85421248. | 3149055. | 8.961 | 979.429 |
| AV | 0.000 | 1.359 | 7953. | 88791. | -114814. | 4233. | 0.012 | 1.316 |
| MONTHLY SUMMARY (APR) | | | | | | | | |
| MN | 0.000 | 0.000 | 1600. | 0. | -182915. | 1600. | 0.000 | 0.000 |
| MX | 4.511 | 2.165 | 96747. | 153244. | 0. | 53188. | 5.370 | 2.106 |
| SM | 103.966 | 974.385 | 1969425. | 62026636. | -82311696. | 1265497. | 243.514 | 949.941 |
| AV | 0.144 | 1.353 | 2735. | 86148. | -114322. | 1758. | 0.338 | 1.319 |
| MONTHLY SUMMARY (MAY) | | | | | | | | |
| MN | 0.000 | 0.000 | 1600. | 0. | -182915. | 1600. | 0.000 | 0.000 |
| MX | 9.323 | 2.165 | 73180. | 148199. | 0. | 51620. | 9.337 | 2.106 |
| SM | 1519.921 | 1030.683 | 2165031. | 62307404. | -87067472. | 1663120. | 1637.060 | 989.961 |
| AV | 2.343 | 1.385 | 2910. | 83747. | -117026. | 2235. | 2.200 | 1.331 |
| MONTHLY SUMMARY (JUN) | | | | | | | | |
| MN | 0.000 | 0.000 | 1600. | 0. | -182915. | 1600. | 0.000 | 0.000 |
| MX | 13.003 | 2.165 | 9381. | 148995. | 0. | 1600. | 12.680 | 2.106 |
| SM | 2905.321 | 974.385 | 1166680. | 57482560. | -82311696. | 1152000. | 2942.885 | 947.835 |
| AV | 4.035 | 1.353 | 1620. | 79837. | -114322. | 1600. | 4.087 | 1.316 |
| MONTHLY SUMMARY (JUL) | | | | | | | | |
| MN | 0.000 | 0.000 | 1600. | 0. | -182915. | 1600. | 0.000 | 0.000 |
| MX | 13.013 | 2.165 | 1600. | 156885. | 0. | 1600. | 12.697 | 2.106 |
| SM | 3339.793 | 1006.364 | 1190400. | 60419492. | -85055416. | 1190400. | 3338.120 | 979.429 |
| AV | 4.489 | 1.353 | 1600. | 81209. | -114322. | 1600. | 4.487 | 1.316 |

| | AC-17 | AC-17 | AC-17 | AC-17 | AC-17 | AC-18 | AC-18 | AC-18 |
|-----------------------|---------------------------|--------------------------|--------------------------|-------------------------------|-------------------------------|--------------------------|---------------------------|--------------------------|
| | COOLING ELECTRIC KW | SUPPLY ELECTRIC KW | HEATING GAS BTU/HR | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR | HEATING GAS BTU/HR | COOLING ELECTRIC KW | SUPPLY ELECTRIC KW |
| | ----(47) | ----(49) | ----(45) | ----(70) | ----(78) | ----(45) | ----(47) | ----(49) |
| MONTHLY SUMMARY (AUG) | | | | | | | | |
| MN | 0.000 | 0.000 | 1600. | 0. | -182915. | 1600. | 0.000 | 0.000 |
| MX | 13.056 | 2.165 | 15066. | 151042. | 0. | 1600. | 12.736 | 2.106 |
| SM | 3414.456 | 1006.864 | 1203866. | 60244364. | -85055416. | 1190400. | 3429.375 | 979.429 |
| AV | 4.589 | 1.353 | 1618. | 80974. | -114322. | 1600. | 4.609 | 1.316 |
| MONTHLY SUMMARY (SEP) | | | | | | | | |
| MN | 0.000 | 0.000 | 1600. | 0. | -182915. | 1600. | 0.000 | 0.000 |
| MX | 12.424 | 2.165 | 33045. | 152929. | 0. | 21101. | 12.137 | 2.106 |
| SM | 2266.375 | 974.385 | 1332561. | 58234628. | -82311696. | 1217557. | 2341.332 | 947.835 |
| AV | 3.148 | 1.353 | 1851. | 80881. | -114322. | 1691. | 3.252 | 1.316 |
| MONTHLY SUMMARY (OCT) | | | | | | | | |
| MN | 0.000 | 0.000 | 1600. | 0. | -182915. | 1600. | 0.000 | 0.000 |
| MX | 7.861 | 2.165 | 76522. | 150347. | 0. | 53898. | 8.093 | 2.106 |
| SM | 993.811 | 1019.856 | 2409018. | 62628180. | -86152904. | 1769228. | 1135.594 | 979.429 |
| AV | 1.336 | 1.371 | 3238. | 84178. | -115797. | 2378. | 1.526 | 1.316 |
| MONTHLY SUMMARY (NOV) | | | | | | | | |
| MN | 0.000 | 0.000 | 1600. | 0. | -182915. | 1600. | 0.000 | 0.000 |
| MX | 5.730 | 2.165 | 143584. | 159490. | 0. | 102645. | 6.180 | 2.106 |
| SM | 103.162 | 976.550 | 3963308. | 63839188. | -82494608. | 1965611. | 147.553 | 952.047 |
| AV | 0.143 | 1.356 | 5505. | 88666. | -114576. | 2730. | 0.205 | 1.322 |
| MONTHLY SUMMARY (DEC) | | | | | | | | |
| MN | 0.000 | 0.000 | 1600. | 0. | -182915. | 1600. | 0.000 | 0.000 |
| MX | 0.013 | 2.165 | 166804. | 162939. | 0. | 138313. | 0.017 | 2.106 |
| SM | 0.028 | 1022.021 | 12013590. | 69400344. | -86335832. | 6752729. | 0.017 | 979.429 |
| AV | 0.000 | 1.374 | 16147. | 93280. | -116043. | 9076. | 0.000 | 1.316 |
| YEARLY SUMMARY | | | | | | | | |
| MN | 0.000 | 0.000 | 1600. | 0. | -182915. | 1600. | 0.000 | 0.000 |
| MX | 13.056 | 2.165 | 214430. | 169898. | 0. | 190751. | 12.736 | 2.106 |
| SM | 14647.227 | 11943.793 | 62953800. | 756485952. | -1008958400. | 39646764. | 15224.506 | 11572.011 |
| AV | 1.672 | 1.363 | 7187. | 86357. | -115178. | 4526. | 1.738 | 1.321 |

| MMDDHH | AC-18 | AC-18 | AC-19 | AC-19 | AC-19 | AC-19 | AC-19 | AC-21 |
|-----------------------|-------------------------------|-------------------------------|--------------------------|---------------------------|--------------------------|-------------------------------|-------------------------------|--------------------------|
| | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR | HEATING GAS BTU/HR | COOLING ELECTRIC KW | SUPPLY ELECTRIC KW | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR | HEATING GAS BTU/HR |
| | ---- (70) | ---- (78) | ---- (45) | ---- (47) | ---- (49) | ---- (70) | ---- (78) | ---- (45) |
| MONTHLY SUMMARY (JAN) | | | | | | | | |
| MN | 0. | -177931. | 1600. | 0.000 | 0.000 | 0. | -177931. | 1600. |
| MX | 165524. | 0. | 190751. | 0.033 | 2.106 | 165524. | 0. | 215031. |
| SM | 69180232. | -83983344. | 9901319. | 0.033 | 994.173 | 69180232. | -83983344. | 16159035. |
| AV | 92984. | -112881. | 13308. | 0.000 | 1.336 | 92984. | -112881. | 21719. |
| MONTHLY SUMMARY (FEB) | | | | | | | | |
| MN | 0. | -177931. | 1600. | 0.000 | 0.000 | 0. | -177931. | 1600. |
| MX | 165524. | 0. | 180392. | 0.049 | 2.106 | 165524. | 0. | 198659. |
| SM | 60815464. | -75442680. | 8429851. | 0.061 | 893.071 | 60815464. | -75442680. | 12688852. |
| AV | 90499. | -112266. | 12544. | 0.000 | 1.329 | 90499. | -112266. | 18882. |
| MONTHLY SUMMARY (MAR) | | | | | | | | |
| MN | 0. | -177931. | 1600. | 0.000 | 0.000 | 0. | -177931. | 1600. |
| MX | 152162. | 0. | 136881. | 1.438 | 2.106 | 152162. | 0. | 162207. |
| SM | 64145732. | -82737840. | 3149055. | 8.961 | 979.429 | 64145732. | -82737840. | 5657768. |
| AV | 86217. | -111207. | 4233. | 0.012 | 1.316 | 86217. | -111207. | 7605. |
| MONTHLY SUMMARY (APR) | | | | | | | | |
| MN | 0. | -177931. | 1600. | 0.000 | 0.000 | 0. | -177931. | 1600. |
| MX | 149299. | 0. | 53188. | 5.370 | 2.106 | 149299. | 0. | 96526. |
| SM | 60684116. | -80246808. | 1265497. | 243.514 | 949.941 | 60684116. | -80246808. | 1927355. |
| AV | 84283. | -111454. | 1758. | 0.338 | 1.319 | 84283. | -111454. | 2677. |
| MONTHLY SUMMARY (MAY) | | | | | | | | |
| MN | 0. | -177931. | 1600. | 0.000 | 0.000 | 0. | -177931. | 1600. |
| MX | 144384. | 0. | 61620. | 9.337 | 2.106 | 144384. | 0. | 73395. |
| SM | 59837944. | -83627488. | 1663120. | 1637.060 | 989.961 | 59837944. | -83627488. | 2139116. |
| AV | 80427. | -112403. | 2235. | 2.200 | 1.331 | 80427. | -112403. | 2875. |
| MONTHLY SUMMARY (JUN) | | | | | | | | |
| MN | 0. | -177931. | 1600. | 0.000 | 0.000 | 0. | -177931. | 1600. |
| MX | 145453. | 0. | 1600. | 12.680 | 2.106 | 145453. | 0. | 9218. |
| SM | 55995808. | -80068880. | 1152000. | 2942.885 | 947.835 | 55995808. | -80068880. | 1166268. |
| AV | 77772. | -111207. | 1600. | 4.087 | 1.316 | 77772. | -111207. | 1620. |
| MONTHLY SUMMARY (JUL) | | | | | | | | |
| MN | 0. | -177931. | 1600. | 0.000 | 0.000 | 0. | -177931. | 1600. |
| MX | 153000. | 0. | 1600. | 12.697 | 2.106 | 153000. | 0. | 1600. |
| SM | 58834700. | -82737840. | 1190400. | 3338.120 | 979.429 | 58834700. | -82737840. | 1190400. |
| AV | 79079. | -111207. | 1600. | 4.487 | 1.316 | 79079. | -111207. | 1600. |

| | AC-18 | AC-18 | AC-19 | AC-19 | AC-19 | AC-19 | AC-19 | AC-21 |
|-----------------------|-------------------------------|-------------------------------|--------------------------|---------------------------|--------------------------|-------------------------------|-------------------------------|--------------------------|
| | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR | HEATING GAS BTU/HR | COOLING ELECTRIC KW | SUPPLY ELECTRIC KW | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR | HEATING GAS BTU/HR |
| | ----(70) | ----(78) | ----(45) | ----(47) | ----(49) | ----(70) | ----(78) | ----(45) |
| MONTHLY SUMMARY (AUG) | | | | | | | | |
| MN | 0. | -177931. | 1600. | 0.000 | 0.000 | 0. | -177931. | 1600. |
| MX | 147283. | 0. | 1600. | 12.736 | 2.106 | 147283. | 0. | 14651. |
| SM | 58669200. | -82737840. | 1190400. | 3429.375 | 979.429 | 58669200. | -82737840. | 1203452. |
| AV | 78856. | -111207. | 1600. | 4.609 | 1.316 | 78856. | -111207. | 1618. |
| MONTHLY SUMMARY (SEP) | | | | | | | | |
| MN | 0. | -177931. | 1600. | 0.000 | 0.000 | 0. | -177931. | 1600. |
| MX | 149411. | 0. | 21101. | 12.137 | 2.106 | 149411. | 0. | 30672. |
| SM | 56723424. | -80068880. | 1217557. | 2341.332 | 947.835 | 56723424. | -80068880. | 1301849. |
| AV | 78783. | -111207. | 1691. | 3.252 | 1.316 | 78783. | -111207. | 1808. |
| MONTHLY SUMMARY (OCT) | | | | | | | | |
| MN | 0. | -177931. | 1600. | 0.000 | 0.000 | 0. | -177931. | 1600. |
| MX | 146476. | 0. | 53898. | 8.093 | 2.106 | 146476. | 0. | 71457. |
| SM | 60235636. | -82737840. | 1769228. | 1135.594 | 979.429 | 60235636. | -82737840. | 2265408. |
| AV | 80962. | -111207. | 2378. | 1.526 | 1.316 | 80962. | -111207. | 3045. |
| MONTHLY SUMMARY (NOV) | | | | | | | | |
| MN | 0. | -177931. | 1600. | 0.000 | 0.000 | 0. | -177931. | 1600. |
| MX | 154083. | 0. | 102645. | 6.180 | 2.106 | 154083. | 0. | 140874. |
| SM | 62453864. | -80424744. | 1965611. | 147.553 | 952.047 | 62453864. | -80424744. | 3748036. |
| AV | 86741. | -111701. | 2730. | 0.205 | 1.322 | 86741. | -111701. | 5206. |
| MONTHLY SUMMARY (DEC) | | | | | | | | |
| MN | 0. | -177931. | 1600. | 0.000 | 0.000 | 0. | -177931. | 1600. |
| MX | 158744. | 0. | 138313. | 0.017 | 2.106 | 158744. | 0. | 165391. |
| SM | 66582036. | -82737840. | 6752729. | 0.017 | 979.429 | 66582036. | -82737840. | 11576574. |
| AV | 89492. | -111207. | 9076. | 0.000 | 1.316 | 89492. | -111207. | 15560. |
| YEARLY SUMMARY | | | | | | | | |
| MN | 0. | -177931. | 1600. | 0.000 | 0.000 | 0. | -177931. | 1600. |
| MX | 165524. | 0. | 190751. | 12.736 | 2.106 | 165524. | 0. | 215031. |
| SM | 734158208. | -977552064. | 39646764. | 15224.506 | 11572.011 | 734158208. | -977552064. | 61024112. |
| AV | 83808. | -111593. | 4526. | 1.738 | 1.321 | 83808. | -111593. | 6966. |

| MMDDHH | AC-21 | AC-21 | AC-21 | AC-21 | AC-25 | AC-25 | AC-25 | AC-25 |
|-----------------------|---------------------------|--------------------------|-------------------------------|-------------------------------|--------------------------|---------------------------|--------------------------|-------------------------------|
| | COOLING ELECTRIC KW | SUPPLY ELECTRIC KW | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR | HEATING GAS BTU/HR | COOLING ELECTRIC KW | SUPPLY ELECTRIC KW | COOLING CAPACITY BTU/HR |
| | ----(47) | ----(49) | ----(70) | ----(78) | ----(45) | ----(47) | ----(49) | ----(70) |
| MONTHLY SUMMARY (JAN) | | | | | | | | |
| MN | 0.000 | 0.000 | 0. | -184909. | 1600. | 0.000 | 0.000 | 0. |
| MX | 0.008 | 2.189 | 171647. | 0. | 227746. | 0.000 | 2.248 | 176019. |
| SM | 0.013 | 1035.350 | 71886448. | -87461704. | 21337434. | 0.000 | 1070.000 | 74169232. |
| AV | 0.000 | 1.392 | 96622. | -117556. | 28679. | 0.000 | 1.438 | 99690. |
| MONTHLY SUMMARY (FEB) | | | | | | | | |
| MN | 0.000 | 0.000 | 0. | -184909. | 1600. | 0.000 | 0.000 | 0. |
| MX | 0.096 | 2.189 | 171647. | 0. | 212237. | 0.016 | 2.248 | 176019. |
| SM | 0.119 | 928.094 | 63043756. | -78401200. | 16571475. | 0.016 | 973.341 | 66029348. |
| AV | 0.000 | 1.381 | 93815. | -116668. | 24660. | 0.000 | 1.448 | 98258. |
| MONTHLY SUMMARY (MAR) | | | | | | | | |
| MN | 0.000 | 0.000 | 0. | -184909. | 1600. | 0.000 | 0.000 | 0. |
| MX | 0.033 | 2.189 | 157790. | 0. | 176937. | 0.020 | 2.248 | 161809. |
| SM | 0.033 | 1022.216 | 66747488. | -86352256. | 8120709. | 0.056 | 1054.265 | 68720104. |
| AV | 0.000 | 1.374 | 89714. | -116065. | 10915. | 0.000 | 1.417 | 92366. |
| MONTHLY SUMMARY (APR) | | | | | | | | |
| MN | 0.000 | 0.000 | 0. | -184909. | 1600. | 0.000 | 0.000 | 0. |
| MX | 4.798 | 2.189 | 154822. | 0. | 115365. | 4.035 | 2.248 | 158765. |
| SM | 113.626 | 985.005 | 62667836. | -83208816. | 2652968. | 61.434 | 1011.555 | 64106336. |
| AV | 0.158 | 1.368 | 87039. | -115568. | 3699. | 0.085 | 1.405 | 39037. |
| MONTHLY SUMMARY (MAY) | | | | | | | | |
| MN | 0.000 | 0.000 | 0. | -184909. | 1600. | 0.000 | 0.000 | 0. |
| MX | 9.440 | 2.189 | 149725. | 0. | 84192. | 9.507 | 2.248 | 153539. |
| SM | 1537.111 | 1041.916 | 62948756. | -88016424. | 2569776. | 1460.727 | 1072.248 | 64731728. |
| AV | 2.066 | 1.400 | 84609. | -118302. | 3454. | 1.963 | 1.441 | 87005. |
| MONTHLY SUMMARY (JUN) | | | | | | | | |
| MN | 0.000 | 0.000 | 0. | -184909. | 1600. | 0.000 | 0.000 | 0. |
| MX | 13.133 | 2.189 | 150569. | 0. | 17908. | 13.457 | 2.248 | 154150. |
| SM | 2930.014 | 985.005 | 58070108. | -83208816. | 1191772. | 2921.020 | 1011.555 | 59558924. |
| AV | 4.069 | 1.368 | 80653. | -115568. | 1655. | 4.057 | 1.405 | 82721. |
| MONTHLY SUMMARY (JUL) | | | | | | | | |
| MN | 0.000 | 0.000 | 0. | -184909. | 1600. | 0.000 | 0.000 | 0. |
| MX | 13.141 | 2.189 | 158548. | 0. | 1600. | 13.461 | 2.248 | 162384. |
| SM | 3371.335 | 1017.838 | 61029364. | -85982440. | 1190400. | 3383.343 | 1045.274 | 62604344. |
| AV | 4.531 | 1.368 | 82029. | -115568. | 1600. | 4.548 | 1.405 | 34146. |

| | AC-21 | AC-21 | AC-21 | AC-21 | AC-25 | AC-25 | AC-25 | AC-25 |
|-----------------------|---------------------------|--------------------------|-------------------------------|-------------------------------|--------------------------|---------------------------|--------------------------|-------------------------------|
| | COOLING ELECTRIC KW | SUPPLY ELECTRIC KW | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR | HEATING GAS BTU/HR | COOLING ELECTRIC KW | SUPPLY ELECTRIC KW | COOLING CAPACITY BTU/HR |
| | ----(47) | ----(49) | ----(70) | ----(78) | ----(45) | ----(47) | ----(49) | ----(70) |
| MONTHLY SUMMARY (AUG) | | | | | | | | |
| MN | 0.000 | 0.000 | 0. | -184909. | 1600. | 0.000 | 0.000 | 0. |
| MX | 13.193 | 2.189 | 152634. | 0. | 24213. | 13.513 | 2.248 | 156413. |
| SM | 3459.631 | 1017.838 | 60841692. | -85982440. | 1223584. | 3454.380 | 1045.274 | 62423708. |
| AV | 4.650 | 1.368 | 81776. | -115568. | 1645. | 4.643 | 1.405 | 83903. |
| MONTHLY SUMMARY (SEP) | | | | | | | | |
| MN | 0.000 | 0.000 | 0. | -184909. | 1600. | 0.000 | 0.000 | 0. |
| MX | 12.570 | 2.189 | 154623. | 0. | 41386. | 12.256 | 2.248 | 158199. |
| SM | 2320.094 | 985.005 | 58820752. | -83208816. | 1453107. | 2253.543 | 1011.555 | 60341792. |
| AV | 3.222 | 1.368 | 81695. | -115568. | 2018. | 3.130 | 1.405 | 83808. |
| MONTHLY SUMMARY (OCT) | | | | | | | | |
| MN | 0.000 | 0.000 | 0. | -184909. | 1600. | 0.000 | 0.000 | 0. |
| MX | 8.115 | 2.189 | 151894. | 0. | 92647. | 7.341 | 2.248 | 155763. |
| SM | 1038.399 | 1028.783 | 63141992. | -86906976. | 2986440. | 924.974 | 1063.257 | 65154072. |
| AV | 1.396 | 1.383 | 84868. | -116810. | 4014. | 1.243 | 1.429 | 87573. |
| MONTHLY SUMMARY (NOV) | | | | | | | | |
| MN | 0.000 | 0.000 | 0. | -184909. | 1500. | 0.000 | 0.000 | 0. |
| MX | 5.892 | 2.189 | 161206. | 0. | 157423. | 5.434 | 2.248 | 164497. |
| SM | 108.451 | 989.383 | 64651672. | -83578632. | 5751224. | 83.178 | 1016.051 | 66247152. |
| AV | 0.151 | 1.374 | 89794. | -116081. | 7988. | 0.126 | 1.411 | 92010. |
| MONTHLY SUMMARY (DEC) | | | | | | | | |
| MN | 0.000 | 0.000 | 0. | -184909. | 1600. | 0.000 | 0.000 | 0. |
| MX | 0.043 | 2.189 | 164616. | 0. | 177643. | 0.000 | 2.248 | 168809. |
| SM | 0.051 | 1033.161 | 70117504. | -87276800. | 16026200. | 0.000 | 1076.744 | 73013152. |
| AV | 0.000 | 1.389 | 94244. | -117308. | 21541. | 0.000 | 1.447 | 98136. |
| YEARLY SUMMARY | | | | | | | | |
| MN | 0.000 | 0.000 | 0. | -184909. | 1600. | 0.000 | 0.000 | 0. |
| MX | 13.193 | 2.189 | 171647. | 0. | 227746. | 13.513 | 2.248 | 176019. |
| SM | 14878.878 | 12069.595 | 763967424. | -1019585408. | 81085088. | 14542.571 | 12451.119 | 787099904. |
| AV | 1.699 | 1.378 | 87211. | -116391. | 9256. | 1.660 | 1.421 | 89852. |

| MDDHH | AC-25 | AC-22 | AC-22 | AC-22 | AC-22 | AC-22 | AC-23 | AC-23 |
|-----------------------|-------------------------------|--------------------------|---------------------------|--------------------------|-------------------------------|-------------------------------|--------------------------|---------------------------|
| | HEATING CAPACITY BTU/HR | HEATING GAS BTU/HR | COOLING ELECTRIC KW | SUPPLY ELECTRIC KW | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR | HEATING GAS BTU/HR | COOLING ELECTRIC KW |
| | ----(78) | ----(45) | ----(47) | ----(49) | ----(70) | ----(78) | ----(45) | ----(47) |
| MONTHLY SUMMARY (JAN) | | | | | | | | |
| MN | -189893. | 1600. | 0.000 | 0.000 | 0. | -184410. | 1600. | 0.000 |
| MX | 0. | 209073. | 0.028 | 2.183 | 171210. | 0. | 209073. | 0.028 |
| SM | -90388872. | 14577701. | 0.028 | 1032.559 | 71707784. | -87226000. | 14577701. | 0.028 |
| AV | -121490. | 19594. | 0.000 | 1.388 | 96381. | -117239. | 19594. | 0.000 |
| MONTHLY SUMMARY (FEB) | | | | | | | | |
| MN | -189893. | 1600. | 0.000 | 0.000 | 0. | -184410. | 1600. | 0.000 |
| MX | 0. | 194351. | 0.023 | 2.183 | 171210. | 0. | 194351. | 0.023 |
| SM | -82223496. | 11533005. | 0.101 | 925.592 | 62887812. | -78189904. | 11533005. | 0.101 |
| AV | -122356. | 17162. | 0.000 | 1.377 | 93583. | -116354. | 17162. | 0.000 |
| MONTHLY SUMMARY (MAR) | | | | | | | | |
| MN | -189893. | 1600. | 0.000 | 0.000 | 0. | -184410. | 1600. | 0.000 |
| MX | 0. | 157416. | 0.011 | 2.183 | 157388. | 0. | 157416. | 0.011 |
| SM | -89059632. | 4844976. | 0.011 | 1017.278 | 66441924. | -85935128. | 4844976. | 0.011 |
| AV | -119704. | 6512. | 0.000 | 1.367 | 89304. | -115504. | 6512. | 0.000 |
| MONTHLY SUMMARY (APR) | | | | | | | | |
| MN | -189893. | 1600. | 0.000 | 0.000 | 0. | -184410. | 1600. | 0.000 |
| MX | 0. | 87686. | 4.984 | 2.183 | 154428. | 0. | 87686. | 4.984 |
| SM | -85451672. | 1627457. | 145.169 | 982.350 | 62551852. | -82984568. | 1627457. | 145.169 |
| AV | -118683. | 2260. | 0.202 | 1.364 | 86878. | -115256. | 2260. | 0.202 |
| MONTHLY SUMMARY (MAY) | | | | | | | | |
| MN | -189893. | 1600. | 0.000 | 0.000 | 0. | -184410. | 1600. | 0.000 |
| MX | 0. | 71543. | 9.516 | 2.183 | 149344. | 0. | 71543. | 9.516 |
| SM | -90578784. | 1960254. | 1573.630 | 1032.559 | 62340436. | -87226000. | 1960254. | 1573.630 |
| AV | -121746. | 2635. | 2.115 | 1.388 | 83791. | -117239. | 2635. | 2.115 |
| MONTHLY SUMMARY (JUN) | | | | | | | | |
| MN | -189893. | 1600. | 0.000 | 0.000 | 0. | -184410. | 1600. | 0.000 |
| MX | 0. | 8144. | 13.102 | 2.183 | 150221. | 0. | 8144. | 13.102 |
| SM | -85451672. | 1162939. | 2955.094 | 982.350 | 57917736. | -82984568. | 1162939. | 2955.094 |
| AV | -118683. | 1615. | 4.104 | 1.364 | 80441. | -115256. | 1615. | 4.104 |
| MONTHLY SUMMARY (JUL) | | | | | | | | |
| MN | -189893. | 1600. | 0.000 | 0.000 | 0. | -184410. | 1600. | 0.000 |
| MX | 0. | 1600. | 13.114 | 2.183 | 158061. | 0. | 1600. | 13.114 |
| SM | -88300064. | 1190400. | 3377.453 | 1015.095 | 60869760. | -85750720. | 1190400. | 3377.453 |
| AV | -118683. | 1600. | 4.540 | 1.364 | 81814. | -115256. | 1600. | 4.540 |

| | AC-25 | AC-22 | AC-22 | AC-22 | AC-22 | AC-22 | AC-23 | AC-23 |
|-----------------------|-------------------------------|--------------------------|---------------------------|--------------------------|-------------------------------|-------------------------------|--------------------------|---------------------------|
| | HEATING CAPACITY BTU/HR | HEATING GAS BTU/HR | COOLING ELECTRIC KW | SUPPLY ELECTRIC KW | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR | HEATING GAS BTU/HR | COOLING ELECTRIC KW |
| | ----(78) | ----(45) | ----(47) | ----(49) | ----(70) | ----(78) | ----(45) | ----(47) |
| MONTHLY SUMMARY (AUG) | | | | | | | | |
| MN | -189893. | 1600. | 0.000 | 0.000 | 0. | -184410. | 1600. | 0.000 |
| MX | 0. | 10821. | 13.161 | 2.183 | 152251. | 0. | 10821. | 13.161 |
| SM | -88300064. | 1199622. | 3465.539 | 1015.095 | 60690616. | -85750720. | 1199622. | 3465.539 |
| AV | -118683. | 1612. | 4.658 | 1.364 | 81573. | -115256. | 1622. | 4.658 |
| MONTHLY SUMMARY (SEP) | | | | | | | | |
| MN | -189893. | 1600. | 0.000 | 0.000 | 0. | -184410. | 1600. | 0.000 |
| MX | 0. | 29751. | 12.540 | 2.183 | 154269. | 0. | 29751. | 12.540 |
| SM | -85451672. | 1287866. | 2320.114 | 982.350 | 58678048. | -82984568. | 1287866. | 2320.114 |
| AV | -118683. | 1789. | 3.222 | 1.364 | 81497. | -115256. | 1789. | 3.222 |
| MONTHLY SUMMARY (OCT) | | | | | | | | |
| MN | -189893. | 1600. | 0.000 | 0.000 | 0. | -184410. | 1600. | 0.000 |
| MX | 0. | 67733. | 8.063 | 2.183 | 151507. | 0. | 67733. | 8.063 |
| SM | -89819200. | 2152313. | 1055.385 | 1023.827 | 62842312. | -86488360. | 2152313. | 1055.385 |
| AV | -120725. | 2893. | 1.419 | 1.376 | 84465. | -116248. | 2893. | 1.419 |
| MONTHLY SUMMARY (NOV) | | | | | | | | |
| MN | -189893. | 1600. | 0.000 | 0.000 | 0. | -184410. | 1600. | 0.000 |
| MX | 0. | 132625. | 5.858 | 2.183 | 158840. | 0. | 132625. | 5.858 |
| SM | -85831456. | 3257296. | 114.483 | 986.716 | 64505120. | -83353384. | 3257296. | 114.483 |
| AV | -119210. | 4524. | 0.159 | 1.370 | 89590. | -115769. | 4524. | 0.159 |
| MONTHLY SUMMARY (DEC) | | | | | | | | |
| MN | -189893. | 1600. | 0.000 | 0.000 | 0. | -184410. | 1600. | 0.000 |
| MX | 0. | 161860. | 0.028 | 2.183 | 164197. | 0. | 161860. | 0.028 |
| SM | -90958552. | 10198401. | 0.039 | 1026.010 | 69632184. | -86672768. | 10198401. | 0.039 |
| AV | -122256. | 13708. | 0.000 | 1.379 | 93592. | -116496. | 13708. | 0.000 |
| YEARLY SUMMARY | | | | | | | | |
| MN | -189893. | 1600. | 0.000 | 0.000 | 0. | -184410. | 1600. | 0.000 |
| MX | 0. | 209073. | 13.161 | 2.183 | 171210. | 0. | 209073. | 13.161 |
| SM | -1051815104. | 54992232. | 15007.045 | 12021.779 | 761065664. | -1015546752. | 54992232. | 15007.045 |
| AV | -120070. | 6278. | 1.713 | 1.372 | 86880. | -115930. | 6278. | 1.713 |

| MMDDHH | AC-23 | AC-23 | AC-23 | AC-24 | AC-24 | AC-24 | AC-24 | AC-24 |
|-----------------------|--------------------------|-------------------------------|-------------------------------|--------------------------|---------------------------|--------------------------|-------------------------------|-------------------------------|
| | SUPPLY ELECTRIC KW | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR | HEATING GAS BTU/HR | COOLING ELECTRIC KW | SUPPLY ELECTRIC KW | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR |
| | ----(49) | ----(70) | ----(78) | ----(45) | ----(47) | ----(49) | ----(70) | ----(78) |
| MONTHLY SUMMARY (JAN) | | | | | | | | |
| MN | 0.000 | 0. | -184410. | 1600. | 0.000 | 0.000 | 0. | -191388. |
| MX | 2.183 | 171210. | 0. | 229305. | 0.016 | 2.266 | 177330. | 0. |
| SM | 1032.559 | 71707784. | -87226000. | 20810556. | 0.029 | 1078.426 | 74722200. | -91100576. |
| AV | 1.388 | 96381. | -117239. | 27971. | 0.000 | 1.449 | 100433. | -122447. |
| MONTHLY SUMMARY (FEB) | | | | | | | | |
| MN | 0.000 | 0. | -184410. | 1600. | 0.000 | 0.000 | 0. | -191388. |
| MX | 2.183 | 171210. | 0. | 211839. | 0.037 | 2.266 | 177330. | 0. |
| SM | 925.592 | 62887812. | -78189904. | 16115346. | 0.067 | 981.005 | 66522244. | -82870896. |
| AV | 1.377 | 93583. | -116354. | 23981. | 0.000 | 1.460 | 98991. | -123320. |
| MONTHLY SUMMARY (MAR) | | | | | | | | |
| MN | 0.000 | 0. | -184410. | 1600. | 0.000 | 0.000 | 0. | -191388. |
| MX | 2.183 | 157388. | 0. | 175511. | 0.000 | 2.266 | 163014. | 0. |
| SM | 1017.278 | 66441924. | -85935128. | 7871895. | 0.000 | 1062.567 | 69235928. | -89760856. |
| AV | 1.367 | 89304. | -115504. | 10581. | 0.000 | 1.428 | 93059. | -120646. |
| MONTHLY SUMMARY (APR) | | | | | | | | |
| MN | 0.000 | 0. | -184410. | 1600. | 0.000 | 0.000 | 0. | -191388. |
| MX | 2.183 | 154428. | 0. | 115219. | 4.231 | 2.266 | 159948. | 0. |
| SM | 982.350 | 62551852. | -82984568. | 2604884. | 67.859 | 1019.520 | 64591256. | -86124488. |
| AV | 1.364 | 86878. | -115256. | 3618. | 0.094 | 1.416 | 89710. | -119617. |
| MONTHLY SUMMARY (MAY) | | | | | | | | |
| MN | 0.000 | 0. | -184410. | 1600. | 0.000 | 0.000 | 0. | -191388. |
| MX | 2.183 | 149344. | 0. | 84283. | 9.618 | 2.266 | 154682. | 0. |
| SM | 1032.559 | 62340436. | -87226000. | 2542946. | 1477.246 | 1080.691 | 65209720. | -91291960. |
| AV | 1.388 | 83791. | -117239. | 3418. | 1.986 | 1.453 | 87647. | -122704. |
| MONTHLY SUMMARY (JUN) | | | | | | | | |
| MN | 0.000 | 0. | -184410. | 1600. | 0.000 | 0.000 | 0. | -191388. |
| MX | 2.183 | 150221. | 0. | 17642. | 13.555 | 2.266 | 155339. | 0. |
| SM | 982.350 | 57917736. | -82984568. | 1191115. | 2943.063 | 1019.520 | 59999192. | -86124488. |
| AV | 1.364 | 80441. | -115256. | 1654. | 4.088 | 1.416 | 83332. | -119617. |
| MONTHLY SUMMARY (JUL) | | | | | | | | |
| MN | 0.000 | 0. | -184410. | 1600. | 0.000 | 0.000 | 0. | -191388. |
| MX | 2.183 | 158061. | 0. | 1600. | 13.558 | 2.266 | 163628. | 0. |
| SM | 1015.095 | 60869760. | -85750720. | 1190400. | 3411.089 | 1053.504 | 63059056. | -88995304. |
| AV | 1.364 | 81814. | -115256. | 1600. | 4.585 | 1.416 | 84757. | -119617. |

| | AC-23 | AC-23 | AC-23 | AC-24 | AC-24 | AC-24 | AC-24 | AC-24 |
|-----------------------|--------------------------|-------------------------------|-------------------------------|--------------------------|---------------------------|--------------------------|-------------------------------|-------------------------------|
| | SUPPLY ELECTRIC KW | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR | HEATING GAS BTU/HR | COOLING ELECTRIC KW | SUPPLY ELECTRIC KW | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR |
| | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| | (49) | (70) | (78) | (45) | (47) | (49) | (70) | (78) |
| MONTHLY SUMMARY (AUG) | | | | | | | | |
| MN | 0.000 | 0. | -184410. | 1600. | 0.000 | 0.000 | 0. | -191388. |
| MX | 2.183 | 152251. | 0. | 23792. | 13.618 | 2.266 | 157617. | 0. |
| SM | 1015.095 | 60690616. | -85750720. | 1221738. | 3495.572 | 1053.504 | 62867544. | -88995304. |
| AV | 1.364 | 81573. | -115256. | 1642. | 4.698 | 1.416 | 84499. | -119617. |
| MONTHLY SUMMARY (SEP) | | | | | | | | |
| MN | 0.000 | 0. | -184410. | 1600. | 0.000 | 0.000 | 0. | -191388. |
| MX | 2.183 | 154269. | 0. | 38986. | 12.974 | 2.266 | 159494. | 0. |
| SM | 982.350 | 58678048. | -82984568. | 1411156. | 2303.007 | 1019.520 | 60778844. | -86124488. |
| AV | 1.364 | 81497. | -115256. | 1960. | 3.199 | 1.416 | 84415. | -119617. |
| MONTHLY SUMMARY (OCT) | | | | | | | | |
| MN | 0.000 | 0. | -184410. | 1600. | 0.000 | 0.000 | 0. | -191388. |
| MX | 2.183 | 151507. | 0. | 87719. | 8.089 | 2.266 | 156923. | 0. |
| SM | 1023.827 | 62842312. | -86488360. | 2829843. | 965.678 | 1069.363 | 65497160. | -90335016. |
| AV | 1.376 | 84465. | -116248. | 3804. | 1.298 | 1.437 | 88034. | -121418. |
| MONTHLY SUMMARY (NOV) | | | | | | | | |
| MN | 0.000 | 0. | -184410. | 1600. | 0.000 | 0.000 | 0. | -191388. |
| MX | 2.183 | 158840. | 0. | 157901. | 5.591 | 2.266 | 165876. | 0. |
| SM | 986.716 | 64505120. | -83353384. | 5449339. | 88.607 | 1024.051 | 66746812. | -86507264. |
| AV | 1.370 | 89590. | -115769. | 7549. | 0.123 | 1.422 | 92704. | -120149. |
| MONTHLY SUMMARY (DEC) | | | | | | | | |
| MN | 0.000 | 0. | -184410. | 1600. | 0.000 | 0.000 | 0. | -191388. |
| MX | 2.183 | 164197. | 0. | 176438. | 0.017 | 2.266 | 170066. | 0. |
| SM | 1026.010 | 69632184. | -86672768. | 15583382. | 0.017 | 1080.691 | 73234288. | -91291952. |
| AV | 1.379 | 93592. | -116496. | 20945. | 0.000 | 1.453 | 98433. | -122704. |
| YEARLY SUMMARY | | | | | | | | |
| MN | 0.000 | 0. | -184410. | 1600. | 0.000 | 0.000 | 0. | -191388. |
| MX | 2.183 | 171210. | 0. | 229305. | 13.618 | 2.266 | 177330. | 0. |
| SM | 12021.779 | 761065664. | -1015546752. | 78823272. | 14752.236 | 12542.363 | 792464320. | -1059522624. |
| AV | 1.372 | 86880. | -115930. | 3996. | 1.684 | 1.432 | 90464. | -120950. |

| MMDDHH | AC_FRONT | AC_FRONT | AC_FRONT | AC_FRONT | AC_FRONT |
|-----------------------|--------------------------|---------------------------|--------------------------|-------------------------------|-------------------------------|
| | HEATING GAS BTU/HR | COOLING ELECTRIC KW | SUPPLY ELECTRIC KW | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR |
| | ----(45) | ----(47) | ----(49) | ----(70) | ----(78) |
| MONTHLY SUMMARY (JAN) | | | | | |
| MN | 1600. | 0.000 | 0.000 | 0. | -379785. |
| MX | 510277. | 0.000 | 4.496 | 346317. | 0. |
| SM | 97580168. | 0.000 | 2198.446 | 150074208. | -185714960. |
| AV | 131156. | 0.000 | 2.955 | 201713. | -249617. |
| MONTHLY SUMMARY (FEB) | | | | | |
| MN | 1600. | 0.000 | 0.000 | 0. | -379785. |
| MX | 511119. | 0.000 | 4.496 | 346317. | 0. |
| SM | 81991520. | 0.000 | 1996.135 | 133501488. | -168624640. |
| AV | 122011. | 0.000 | 2.970 | 198663. | -250930. |
| MONTHLY SUMMARY (MAR) | | | | | |
| MN | 1600. | 0.000 | 0.000 | 0. | -379785. |
| MX | 462382. | 0.037 | 4.496 | 319870. | 0. |
| SM | 55946136. | 0.037 | 2117.522 | 135706672. | -178878832. |
| AV | 75196. | 0.000 | 2.846 | 182401. | -240429. |
| MONTHLY SUMMARY (APR) | | | | | |
| MN | 1600. | 0.000 | 0.000 | 0. | -379785. |
| MX | 366208. | 0.067 | 4.496 | 312371. | 0. |
| SM | 21670370. | 0.067 | 2023.110 | 124558696. | -170903344. |
| AV | 30098. | 0.000 | 2.810 | 172998. | -237366. |
| MONTHLY SUMMARY (MAY) | | | | | |
| MN | 1600. | 0.000 | 0.000 | 0. | -379785. |
| MX | 255538. | 16.338 | 4.496 | 302088. | 0. |
| SM | 13688585. | 1627.266 | 2265.883 | 135136496. | -191411776. |
| AV | 18399. | 2.187 | 3.046 | 181635. | -257274. |
| MONTHLY SUMMARY (JUN) | | | | | |
| MN | 1600. | 0.000 | 0.000 | 0. | -379785. |
| MX | 84920. | 26.551 | 4.496 | 300275. | 0. |
| SM | 2150103. | 4469.368 | 2036.598 | 118868832. | -172042704. |
| AV | 2986. | 6.207 | 2.829 | 165096. | -238948. |
| MONTHLY SUMMARY (JUL) | | | | | |
| MN | 1600. | 0.000 | 0.000 | 0. | -379785. |
| MX | 17056. | 26.549 | 4.496 | 316903. | 0. |
| SM | 1205856. | 5566.915 | 2090.547 | 124330880. | -176600128. |
| AV | 1621. | 7.482 | 2.810 | 167111. | -237366. |

| | AC_FRONT | AC_FRONT | AC_FRONT | AC_FRONT | AC_FRONT |
|-----------------------|--------------------------|---------------------------|--------------------------|-------------------------------|-------------------------------|
| | HEATING GAS BTU/HR | COOLING ELECTRIC KW | SUPPLY ELECTRIC KW | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR |
| | ----(45) | ----(47) | ----(49) | ----(70) | ----(78) |
| MONTHLY SUMMARY (AUG) | | | | | |
| MN | 1600. | 0.000 | 0.000 | 0. | -379785. |
| MX | 84000. | 26.828 | 4.496 | 305036. | 0. |
| SM | 2039008. | 5475.979 | 2104.034 | 124686640. | -177739472. |
| AV | 2741. | 7.360 | 2.828 | 167590. | -238897. |
| MONTHLY SUMMARY (SEP) | | | | | |
| MN | 1600. | 0.000 | 0.000 | 0. | -379785. |
| MX | 130282. | 23.770 | 4.496 | 307778. | 0. |
| SM | 4882781. | 3086.183 | 2099.539 | 123737584. | -177359680. |
| AV | 6782. | 4.286 | 2.916 | 171858. | -246333. |
| MONTHLY SUMMARY (OCT) | | | | | |
| MN | 1600. | 0.000 | 0.000 | 0. | -379785. |
| MX | 312343. | 12.092 | 4.496 | 306464. | 0. |
| SM | 18607804. | 665.461 | 2220.925 | 134023424. | -187613920. |
| AV | 25010. | 0.894 | 2.985 | 180139. | -252169. |
| MONTHLY SUMMARY (NOV) | | | | | |
| MN | 1600. | 0.000 | 0.000 | 0. | -379785. |
| MX | 459769. | 0.015 | 4.496 | 312371. | 0. |
| SM | 43200148. | 0.028 | 2059.077 | 131563384. | -173941600. |
| AV | 60000. | 0.000 | 2.860 | 182727. | -241586. |
| MONTHLY SUMMARY (DEC) | | | | | |
| MN | 1600. | 0.000 | 0.000 | 0. | -379785. |
| MX | 463277. | 0.000 | 4.495 | 332132. | 0. |
| SM | 86191032. | 0.000 | 2202.942 | 147093552. | -186094736. |
| AV | 115848. | 0.000 | 2.961 | 197706. | -250127. |
| YEARLY SUMMARY | | | | | |
| MN | 1600. | 0.000 | 0.000 | 0. | -379785. |
| MX | 511119. | 26.828 | 4.496 | 346317. | 0. |
| SM | 429153536. | 20891.305 | 25414.758 | 1583281792. | -2146925824. |
| AV | 48990. | 2.385 | 2.901 | 180740. | -245083. |

| MMDDHH | AC_3_8 | AC_3_8 | AC_3_8 | AC_3_8 | AC_3_8 | AC-1_2 | AC-1_2 | AC-1_2 |
|-----------------------|--------------------------|---------------------------|--------------------------|-------------------------------|-------------------------------|--------------------------|---------------------------|--------------------------|
| | HEATING GAS BTU/HR | COOLING ELECTRIC KW | SUPPLY ELECTRIC KW | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR | HEATING GAS BTU/HR | COOLING ELECTRIC KW | SUPPLY ELECTRIC KW |
| | ----(45) | ----(47) | ----(49) | ----(70) | ----(78) | ----(45) | ----(47) | ----(49) |
| MONTHLY SUMMARY (JAN) | | | | | | | | |
| MN | 1600. | 0.000 | 0.000 | 0. | -675339. | 1600. | 0.000 | 0.000 |
| MX | 854284. | 0.000 | 6.171 | 540233. | 0. | 736730. | 0.000 | 6.590 |
| SM | 140958160. | 0.000 | 3017.815 | 234104064. | -330240640. | 131661744. | 0.000 | 3202.886 |
| AV | 189460. | 0.000 | 4.056 | 314656. | -443872. | 176965. | 0.000 | 4.305 |
| MONTHLY SUMMARY (FEB) | | | | | | | | |
| MN | 1600. | 0.000 | 0.000 | 0. | -675339. | 1600. | 0.000 | 0.000 |
| MX | 810304. | 0.000 | 6.171 | 540233. | 0. | 726953. | 0.000 | 6.590 |
| SM | 112884904. | 0.000 | 2746.273 | 208774624. | -300525728. | 105560808. | 0.000 | 2906.323 |
| AV | 167983. | 0.000 | 4.087 | 310677. | -447211. | 157385. | 0.000 | 4.325 |
| MONTHLY SUMMARY (MAR) | | | | | | | | |
| MN | 1600. | 0.000 | 0.000 | 0. | -675339. | 1600. | 0.000 | 0.000 |
| MX | 629613. | 0.007 | 6.171 | 498977. | 0. | 678142. | 0.055 | 6.590 |
| SM | 74899312. | 0.007 | 2912.902 | 212134304. | -318759872. | 69083752. | 0.055 | 3097.441 |
| AV | 100671. | 0.000 | 3.915 | 285127. | -428441. | 92855. | 0.000 | 4.163 |
| MONTHLY SUMMARY (APR) | | | | | | | | |
| MN | 1600. | 0.000 | 0.000 | 0. | -675339. | 1600. | 0.000 | 0.000 |
| MX | 521189. | 0.000 | 6.171 | 487280. | 0. | 498627. | 0.042 | 6.590 |
| SM | 29238248. | 0.000 | 2777.131 | 194129984. | -303902400. | 25724698. | 0.079 | 2965.635 |
| AV | 40609. | 0.000 | 3.857 | 269625. | -422087. | 35729. | 0.000 | 4.119 |
| MONTHLY SUMMARY (MAY) | | | | | | | | |
| MN | 1600. | 0.000 | 0.000 | 0. | -675339. | 1600. | 0.000 | 0.000 |
| MX | 404611. | 26.719 | 6.171 | 471238. | 0. | 346734. | 24.385 | 6.590 |
| SM | 17842470. | 2764.960 | 3030.158 | 205324384. | -331591296. | 16646566. | 2599.580 | 3295.150 |
| AV | 23982. | 3.716 | 4.073 | 275974. | -445667. | 22374. | 3.494 | 4.429 |
| MONTHLY SUMMARY (JUN) | | | | | | | | |
| MN | 1600. | 0.000 | 0.000 | 0. | -675339. | 1600. | 0.000 | 0.000 |
| MX | 150248. | 42.747 | 6.171 | 471773. | 0. | 196417. | 38.276 | 6.590 |
| SM | 2640373. | 7606.702 | 2777.131 | 185579920. | -303902400. | 2278831. | 5849.218 | 2978.816 |
| AV | 3667. | 10.565 | 3.857 | 257750. | -422087. | 3165. | 9.513 | 4.137 |
| MONTHLY SUMMARY (JUL) | | | | | | | | |
| MN | 1600. | 0.000 | 0.000 | 0. | -675339. | 1600. | 0.000 | 0.000 |
| MX | 50444. | 41.215 | 6.171 | 497559. | 0. | 19359. | 38.415 | 6.590 |
| SM | 1311186. | 9434.917 | 2869.702 | 196170160. | -314032480. | 1208159. | 8384.795 | 3064.490 |
| AV | 1762. | 12.681 | 3.857 | 263670. | -422087. | 1624. | 11.270 | 4.119 |

| | AC_3_8 | AC_3_8 | AC_3_8 | AC_3_8 | AC_3_8 | AC-1_2 | AC-1_2 | AC-1_2 |
|-----------------------|--------------------------|---------------------------|--------------------------|-------------------------------|-------------------------------|--------------------------|---------------------------|--------------------------|
| | HEATING GAS BTU/HR | COOLING ELECTRIC KW | SUPPLY ELECTRIC KW | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR | HEATING GAS BTU/HR | COOLING ELECTRIC KW | SUPPLY ELECTRIC KW |
| | ----(45) | ----(47) | ----(49) | ----(70) | ----(78) | ----(45) | ----(47) | ----(49) |
| MONTHLY SUMMARY (AUG) | | | | | | | | |
| MN | 1600. | 0.000 | 0.000 | 0. | -675339. | 1600. | 0.000 | 0.000 |
| MX | 146358. | 42.188 | 6.171 | 478353. | 0. | 119860. | 38.406 | 6.590 |
| SM | 2138333. | 9387.908 | 2875.873 | 196211728. | -314707840. | 2239584. | 8343.585 | 3077.670 |
| AV | 2874. | 12.618 | 3.865 | 263725. | -422994. | 3010. | 11.214 | 4.137 |
| MONTHLY SUMMARY (SEP) | | | | | | | | |
| MN | 1600. | 0.000 | 0.000 | 0. | -675339. | 1600. | 0.000 | 0.000 |
| MX | 237832. | 39.691 | 6.171 | 484351. | 0. | 191500. | 35.488 | 6.590 |
| SM | 6041854. | 5339.935 | 2826.502 | 190384144. | -309305088. | 5916658. | 4827.389 | 3051.309 |
| AV | 8391. | 7.417 | 3.926 | 264422. | -429590. | 3218. | 6.705 | 4.238 |
| MONTHLY SUMMARY (OCT) | | | | | | | | |
| MN | 1600. | 0.000 | 0.000 | 0. | -675339. | 1600. | 0.000 | 0.000 |
| MX | 429302. | 21.333 | 6.171 | 478065. | 0. | 435700. | 17.568 | 6.590 |
| SM | 23072330. | 1282.000 | 3005.472 | 205738080. | -328889952. | 21838668. | 1096.029 | 3242.428 |
| AV | 31011. | 1.723 | 4.040 | 276530. | -442056. | 29353. | 1.473 | 4.358 |
| MONTHLY SUMMARY (NOV) | | | | | | | | |
| MN | 1600. | 0.000 | 0.000 | 0. | -675339. | 1600. | 0.000 | 0.000 |
| MX | 577747. | 3.224 | 6.171 | 487280. | 0. | 625837. | 0.385 | 6.590 |
| SM | 58622532. | 12.598 | 2826.502 | 205077536. | -309305088. | 55292532. | 0.130 | 3018.358 |
| AV | 81420. | 0.017 | 3.926 | 284830. | -429590. | 76795. | 0.000 | 4.192 |
| MONTHLY SUMMARY (DEC) | | | | | | | | |
| MN | 1600. | 0.000 | 0.000 | 0. | -675339. | 1600. | 0.000 | 0.000 |
| MX | 671005. | 0.300 | 6.171 | 518105. | 0. | 680043. | 0.300 | 6.590 |
| SM | 121150192. | 0.000 | 3030.158 | 229920704. | -331591296. | 114058048. | 0.000 | 3209.476 |
| AV | 162850. | 0.000 | 4.073 | 309033. | -445687. | 153304. | 0.000 | 4.314 |
| YEARLY SUMMARY | | | | | | | | |
| MN | 1600. | 0.000 | 0.000 | 0. | -675339. | 1600. | 0.000 | 0.000 |
| MX | 854284. | 42.747 | 6.171 | 540233. | 0. | 736730. | 38.415 | 6.590 |
| SM | 590809920. | 35829.027 | 34695.617 | 2463549696. | -3796751920. | 551510016. | 32109.859 | 37109.984 |
| AV | 67444. | 4.090 | 3.961 | 281227. | -433419. | 62958. | 3.664 | 4.236 |

| MMDDHH | AC-1_2 | AC-1_2 | AC_EXP | AC_EXP | AC_EXP | AC_EXP | AC_EXP |
|-----------------------|-------------------------------|-------------------------------|--------------------------|---------------------------|--------------------------|-------------------------------|-------------------------------|
| | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR | HEATING GAS BTU/HR | COOLING ELECTRIC KW | SUPPLY ELECTRIC KW | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR |
| | ---- (70) | ---- (78) | ---- (45) | ---- (47) | ---- (49) | ---- (70) | ---- (78) |
| MONTHLY SUMMARY (JAN) | | | | | | | |
| MN | 0. | -556719. | 1600. | 0.000 | 0.000 | 0. | -521332. |
| MX | 503066. | 0. | 702260. | 0.000 | 6.171 | 470959. | 0. |
| SM | 216581712. | -270565440. | 168438960. | 0.000 | 3023.987 | 204536176. | -255452880. |
| AV | 291104. | -363663. | 226396. | 0.000 | 4.064 | 274914. | -343351. |
| MONTHLY SUMMARY (FEB) | | | | | | | |
| MN | 0. | -556719. | 1600. | 0.000 | 0.000 | 0. | -521332. |
| MX | 503066. | 0. | 707131. | 0.021 | 6.171 | 470959. | 0. |
| SM | 192418960. | -245513088. | 143864864. | 0.021 | 2777.131 | 184119952. | -234599552. |
| AV | 286338. | -365347. | 214085. | 0.000 | 4.133 | 273988. | -349106. |
| MONTHLY SUMMARY (MAR) | | | | | | | |
| MN | 0. | -556719. | 1600. | 0.000 | 0.000 | 0. | -521332. |
| MX | 462455. | 0. | 683018. | 0.000 | 6.171 | 434992. | 0. |
| SM | 196630512. | -261657920. | 111779648. | 0.000 | 2919.073 | 185337392. | -246590192. |
| AV | 264288. | -351691. | 150241. | 0.000 | 3.923 | 249109. | -331438. |
| MONTHLY SUMMARY (APR) | | | | | | | |
| MN | 0. | -556719. | 1600. | 0.000 | 0.000 | 0. | -521332. |
| MX | 453756. | 0. | 578302. | 0.033 | 6.171 | 424795. | 0. |
| SM | 181044336. | -250523552. | 55705468. | 0.062 | 2777.131 | 168962848. | -234599552. |
| AV | 251450. | -347949. | 77369. | 0.000 | 3.857 | 234671. | -325833. |
| MONTHLY SUMMARY (MAY) | | | | | | | |
| MN | 0. | -556719. | 1600. | 0.000 | 0.000 | 0. | -521332. |
| MX | 438818. | 0. | 392778. | 15.874 | 6.171 | 410811. | 0. |
| SM | 194397024. | -278359520. | 36961968. | 1134.337 | 3320.214 | 196708208. | -280476832. |
| AV | 261286. | -374139. | 49680. | 1.525 | 4.463 | 264393. | -376985. |
| MONTHLY SUMMARY (JUN) | | | | | | | |
| MN | 0. | -556719. | 1600. | 0.000 | 0.000 | 0. | -521332. |
| MX | 436206. | 0. | 154566. | 33.049 | 6.171 | 405634. | 0. |
| SM | 171263024. | -251636992. | 6757061. | 4359.128 | 2894.387 | 168200896. | -244504896. |
| AV | 237865. | -349496. | 9385. | 6.054 | 4.020 | 233612. | -339590. |
| MONTHLY SUMMARY (JUL) | | | | | | | |
| MN | 0. | -556719. | 1600. | 0.000 | 0.000 | 0. | -521332. |
| MX | 460402. | 0. | 32847. | 36.032 | 6.171 | 434342. | 0. |
| SM | 179354240. | -258874336. | 1864443. | 5731.518 | 2869.702 | 169867744. | -242419536. |
| AV | 241068. | -347949. | 2506. | 7.704 | 3.857 | 228317. | -325833. |

| | AC-1_2 | AC-1_2 | AC_EXP | AC_EXP | AC_EXP | AC_EXP | AC_EXP |
|-----------------------|-------------------------------|-------------------------------|--------------------------|---------------------------|--------------------------|-------------------------------|-------------------------------|
| | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR | HEATING GAS BTU/HR | COOLING ELECTRIC KW | SUPPLY ELECTRIC KW | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR |
| | ----(70) | ----(78) | ----(45) | ----(47) | ----(49) | ----(70) | ----(78) |
| MONTHLY SUMMARY (AUG) | | | | | | | |
| MN | 0. | -556719. | 1600. | 0.000 | 0.000 | 0. | -521332. |
| MX | 442745. | 0. | 143346. | 34.078 | 6.171 | 411737. | 0. |
| SM | 179506976. | -259987776. | 4383085. | 5596.441 | 2925.244 | 172674080. | -247111536. |
| AV | 241273. | -349446. | 5891. | 7.522 | 3.932 | 232089. | -332139. |
| MONTHLY SUMMARY (SEP) | | | | | | | |
| MN | 0. | -556719. | 1600. | 0.000 | 0.000 | 0. | -521332. |
| MX | 446936. | 0. | 203927. | 26.774 | 6.171 | 415660. | 0. |
| SM | 177618176. | -257760912. | 13365006. | 2808.935 | 3023.986 | 177086784. | -255452880. |
| AV | 246692. | -358001. | 18563. | 3.901 | 4.200 | 245954. | -354796. |
| MONTHLY SUMMARY (OCT) | | | | | | | |
| MN | 0. | -556719. | 1600. | 0.000 | 0.000 | 0. | -521332. |
| MX | 445175. | 0. | 521428. | 11.107 | 6.171 | 416762. | 0. |
| SM | 193751840. | -273905760. | 45217996. | 372.937 | 3165.929 | 189176224. | -267443504. |
| AV | 260419. | -368153. | 60777. | 0.501 | 4.255 | 254269. | -359467. |
| MONTHLY SUMMARY (NOV) | | | | | | | |
| MN | 0. | -556719. | 1600. | 0.000 | 0.000 | 0. | -521332. |
| MX | 453756. | 0. | 643961. | 0.000 | 6.171 | 424795. | 0. |
| SM | 191218624. | -254977312. | 85442304. | 0.000 | 2851.187 | 180125952. | -240855536. |
| AV | 265581. | -354135. | 118670. | 0.000 | 3.960 | 250175. | -334522. |
| MONTHLY SUMMARY (DEC) | | | | | | | |
| MN | 0. | -556719. | 1600. | 0.000 | 0.000 | 0. | -521332. |
| MX | 482461. | 0. | 674265. | 0.000 | 6.171 | 451668. | 0. |
| SM | 212265936. | -271122176. | 150906624. | 0.000 | 3036.329 | 200879696. | -256495520. |
| AV | 285304. | -364412. | 202831. | 0.000 | 4.081 | 270000. | -344752. |
| YEARLY SUMMARY | | | | | | | |
| MN | 0. | -556719. | 1600. | 0.000 | 0.000 | 0. | -521332. |
| MX | 503066. | 0. | 707131. | 36.032 | 6.171 | 470959. | 0. |
| SM | 2286051328. | -3134884864. | 824687424. | 20003.379 | 35584.301 | 2197676032. | -3006002688. |
| AV | 260965. | -357864. | 94142. | 2.283 | 4.062 | 250876. | -343151. |

| S I T E E N E R G Y | | | | | | | | | | | | | * SOURCE |
|-----------------------|-----------------------|--------------------------|-------------------------|------------------|-----------------------------|--------------------------|--------------------------|--------------------------|--------------------------|------------------------|------------------------|-------------------------|-----------------------------|
| | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | * 14 |
| MONTH | TOTAL HEAT LOAD | TOTAL COOLING LOAD | TOTAL ELECTR LOAD | RCVRED ENERGY | WASTED RCVRABL ENERGY | FUEL INPUT COOLING | ELEC INPUT COOLING | FUEL INPUT HEATING | ELEC INPUT HEATING | FUEL INPUT ELECT | TOTAL FUEL INPUT | TOTAL SITE ENERGY | * TOTAL SOURCE ENERGY |
| JAN | 0.0 | 0.0 | 337.8 98.9E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 0.0 | 0.0 0.0E | 0.0 | 662.5 | 1000.3 | * 1676.9 |
| FEB | 0.0 | 0.0 | 300.9 88.1E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 0.0 | 0.0 0.0E | 0.0 | 542.6 | 843.5 | * 1446.1 |
| MAR | 0.0 | 0.0 | 345.3 101.1E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 0.0 | 0.0 0.0E | 0.0 | 355.3 | 700.6 | * 1392.3 |
| APR | 0.0 | 0.0 | 336.2 98.5E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 0.0 | 0.0 0.0E | 0.0 | 147.3 | 483.5 | * 1156.9 |
| MAY | 0.0 | 0.0 | 400.3 117.2E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 0.0 | 0.0 0.0E | 0.0 | 101.8 | 502.1 | * 1304.0 |
| JUN | 0.0 | 0.0 | 492.5 144.3E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 0.0 | 0.0 0.0E | 0.0 | 23.2 | 515.7 | * 1502.3 |
| JUL | 0.0 | 0.0 | 517.6 151.6E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 0.0 | 0.0 0.0E | 0.0 | 15.1 | 532.7 | * 1569.4 |
| AUG | 0.0 | 0.0 | 537.6 157.4E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 0.0 | 0.0 0.0E | 0.0 | 20.4 | 558.0 | * 1634.8 |
| SEP | 0.0 | 0.0 | 442.6 129.6E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 0.0 | 0.0 0.0E | 0.0 | 40.7 | 463.3 | * 1369.7 |
| OCT | 0.0 | 0.0 | 369.0 108.1E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 0.0 | 0.0 0.0E | 0.0 | 127.1 | 496.1 | * 1235.1 |
| NOV | 0.0 | 0.0 | 317.9 93.1E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 0.0 | 0.0 0.0E | 0.0 | 271.9 | 589.8 | * 1226.4 |
| DEC | 0.0 | 0.0 | 337.8 98.9E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 0.0 | 0.0 0.0E | 0.0 | 561.4 | 899.2 | * 1575.8 |
| ===== | 0.0 | 0.0 | 4735.4 1386.9E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 0.0 | 0.0 0.0E | 0.0 | 2869.3 | 7604.7 | * 17089.8 |

NOTE-- ALL ENTRIES ARE IN MBTU EXCEPT
 ENTRIES FOLLOWED BY E ARE IN MWH (THOUSANDS OF KWH)

ENTECH ENGINEERING
 READING, PA 19603
 REPORT- PS-B MONTHLY PEAK AND TOTAL ENERGY USE

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
 FT. GEORGE G. MEADE

DOE-2.1D 6/12/1996 9:34:28 PDL RUN 1
 BUILDING 2790 - NEW
 WEATHER FILE- BALTIMORE, MD

| MO | UTILITY- | ELECTRICITY | FUEL-OIL | NATURAL-GAS |
|-----|--------------|-------------|----------|-------------|
| | TOTAL (MBTU) | 337.795 | 0.000 | 662.525 |
| JAN | PEAK (KBTU) | 878.230 | 0.000 | 4368.156 |
| | DY/HR | 10/ 9 | 31/24 | 31/ 7 |
| | TOTAL (MBTU) | 300.880 | 0.000 | 542.605 |
| FEB | PEAK (KBTU) | 878.555 | 0.000 | 4155.767 |
| | DY/HR | 28/ 9 | 28/24 | 14/ 7 |
| | TOTAL (MBTU) | 345.332 | 0.000 | 355.264 |
| MAR | PEAK (KBTU) | 887.321 | 0.000 | 3681.530 |
| | DY/HR | 29/19 | 31/24 | 7/ 7 |
| | TOTAL (MBTU) | 336.188 | 0.000 | 147.289 |
| APR | PEAK (KBTU) | 1009.056 | 0.000 | 2669.930 |
| | DY/HR | 19/19 | 30/ 1 | 9/ 7 |
| | TOTAL (MBTU) | 400.334 | 0.000 | 101.803 |
| MAY | PEAK (KBTU) | 1420.595 | 0.000 | 1981.036 |
| | DY/HR | 21/17 | 31/ 1 | 10/ 7 |
| | TOTAL (MBTU) | 492.550 | 0.000 | 23.172 |
| JUN | PEAK (KBTU) | 1714.696 | 0.000 | 564.622 |
| | DY/HR | 28/17 | 30/ 1 | 22/ 7 |
| | TOTAL (MBTU) | 517.576 | 0.000 | 15.113 |
| JUL | PEAK (KBTU) | 1719.500 | 0.000 | 182.506 |
| | DY/HR | 25/14 | 31/ 1 | 21/ 7 |
| | TOTAL (MBTU) | 537.578 | 0.000 | 20.433 |
| AUG | PEAK (KBTU) | 1720.256 | 0.000 | 596.129 |
| | DY/HR | 18/17 | 31/ 1 | 22/ 7 |
| | TOTAL (MBTU) | 442.564 | 0.000 | 40.716 |
| SEP | PEAK (KBTU) | 1649.323 | 0.000 | 1009.333 |
| | DY/HR | 1/17 | 30/ 1 | 30/ 7 |
| | TOTAL (MBTU) | 368.987 | 0.000 | 127.071 |
| OCT | PEAK (KBTU) | 1305.231 | 0.000 | 2261.801 |
| | DY/HR | 13/17 | 31/24 | 24/ 7 |
| | TOTAL (MBTU) | 317.351 | 0.000 | 271.916 |
| NOV | PEAK (KBTU) | 1047.528 | 0.000 | 3377.637 |
| | DY/HR | 2/19 | 30/24 | 25/ 7 |
| | TOTAL (MBTU) | 337.737 | 0.000 | 561.418 |
| DEC | PEAK (KBTU) | 878.193 | 0.000 | 3700.395 |
| | DY/HR | 31/ 9 | 31/24 | 12/ 7 |
| | ONE YEAR | 4735.423 | 0.000 | 2869.325 |
| | USE/PEAK | 1720.256 | 0.000 | 4368.156 |

ENTECH ENGINEERING
READING, PA 19603
REPORT- PS-D PLANT LOADS SATISFIED

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
FT. GEORGE G. MEADE

DOE-2.1D 6/12/1996 9:34:28 PDL RUN 1
BUILDING 2790 - NEW
WEATHER FILE- BALTIMORE, MD

| ELECTRICAL LOADS | MBTU SUPPLIED | PCT OF TOTAL LOAD |
|---------------------|---------------|-------------------|
| ELECTRICITY | 4735.4 | 100.0 |
| LOAD SATISFIED | 4735.4 | 100.0 |
| TOTAL LOAD ON PLANT | 4735.4 | |

ENTECH ENGINEERING
READING, PA 19603
REPORT- PS-D PLANT LOADS SATISFIED

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
FT. GEORGE G. MEADE

DOE-2.1D 6/12/1996 9:34:28 PDL RUN 1
BUILDING 2790 - NEW
WEATHER FILE- BALTIMORE, MD
----- (CONTINUED) -----

SUMMARY OF LOADS MET

| TYPE OF LOAD | TOTAL LOAD (MBTU) | LOAD SATISFIED (MBTU) | TOTAL OVERLOAD (MBTU) | PEAK OVERLOAD (MBTU) | HOURS OVERLOADED |
|------------------|-------------------------|-----------------------------|-----------------------------|----------------------------|---------------------|
| ELECTRICAL LOADS | 4735.4 | 4735.4 | 0.000 | 0.000 | 0 |

ENTECH ENGINEERING
 READING, PA 19603
 REPORT- PS-H EQUIPMENT USE STATISTICS

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
 FT. GEORGE G. MEADE

DOE-2.1D 6/12/1996 9:34:28 PDL RUN 1
 BUILDING 2790 - NEW
 WEATHER FILE- BALTIMORE, MD

| EQUIPMENT | AVG OPER RATIO | MAX LOAD (MBTU) | MON | | | SIZE OPER | | SIZE OPER | | SIZE OPER | | SIZE OPER | |
|-----------|----------------------|-----------------------|-----|----|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--|
| | | | DAY | HR | (MBTU) | HRS | (MBTU) | HRS | (MBTU) | HRS | (MBTU) | HRS | |
| HW-BOILER | 0.000 | 0.000 | 0 | 0 | 0 | 0.000 | 0 | | | | | | |

E Q U I P M E N T T O T A L S

| | | | | |
|---------------------|--|-----|-------|--|
| HW-BOILER | | 0.1 | | |
| NOMINAL SIZE (MBTU) | | | 0.000 | |
| NUMBER INSTALLED | | | 1 | |
| FIRST COST (KS) | | 0.0 | 0.0 | |
| ANNUAL COST (KS) | | 0.1 | 0.1 | |
| CYCLICAL COST (KS) | | 0.0 | 0.0 | |
| ----TOTAL----(KS) | | | 0.1 | |
| ----- | | | | |
| EQUIPMENT TOTAL | | 0.1 | | |

| ENERGY TYPE IN SITE MBTU - | ELECTRICITY | FUEL-OIL | NATURAL-GAS |
|-------------------------------|-------------|----------|-------------|
| CATEGORY OF USE | | | |
| SPACE HEAT | 0.00 | 0.00 | 2869.33 |
| SPACE COOL | 778.87 | 0.00 | 0.00 |
| HVAC AUX | 781.90 | 0.00 | 0.00 |
| DOM HOT WTR | 0.00 | 0.00 | 0.00 |
| AUX SOLAR | 0.00 | 0.00 | 0.00 |
| LIGHTS | 2778.61 | 0.00 | 0.00 |
| VERT TRANS | 0.00 | 0.00 | 0.00 |
| MISC EQUIP | 396.18 | 0.00 | 0.00 |
| TOTAL | 4735.56 | 0.00 | 2869.33 |

TOTAL SITE ENERGY 7604.75 MBTU 97.0 KBTU/SQFT-YR GROSS-AREA 97.0 KBTU/SQFT-YR NET-AREA
 TOTAL SOURCE ENERGY 17089.81 MBTU 217.9 KBTU/SQFT-YR GROSS-AREA 217.9 KBTU/SQFT-YR NET-AREA

PERCENT OF HOURS ANY SYSTEM ZONE OUTSIDE OF THROTTLING RANGE = 1.8
 PERCENT OF HOURS ANY PLANT LOAD NOT SATISFIED = 0.0

NOTE ELECTRICITY AND/OR FUEL USED TO GENERATE ELECTRICITY IS APPORTIONED BASED
 ON THE YEARLY DEMAND. ALL OTHER ENERGY TYPES ARE APPORTIONED HOURLY.

| MMDDHH | AC-17 | AC-17 | AC-17 | AC-17 | AC-17 | AC-18 | AC-18 | AC-18 |
|------------------------------|---------------------------|--------------------------|--------------------------|-------------------------------|-------------------------------|--------------------------|---------------------------|--------------------------|
| | COOLING ELECTRIC KW | SUPPLY ELECTRIC KW | HEATING GAS BTU/HR | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR | HEATING GAS BTU/HR | COOLING ELECTRIC KW | SUPPLY ELECTRIC KW |
| | ----(47) | ----(49) | ----(45) | ----(70) | ----(78) | ----(45) | ----(47) | ----(49) |
| MONTHLY SUMMARY (JAN) | | | | | | | | |
| MN | 0.000 | 0.000 | 1600. | 0. | -182915. | 1600. | 0.000 | 0.000 |
| MX | 2.096 | 2.165 | 157179. | 274560. | 0. | 134933. | 2.177 | 2.106 |
| SM | 176.633 | 1024.187 | 6624051. | 73719360. | -86518744. | 3620652. | 142.161 | 994.173 |
| AV | 0.237 | 1.377 | 8903. | 99085. | -116289. | 4866. | 0.191 | 1.336 |
| MONTHLY SUMMARY (FEB) | | | | | | | | |
| MN | 0.000 | 0.000 | 1600. | 0. | -182915. | 1600. | 0.000 | 0.000 |
| MX | 1.898 | 2.165 | 144468. | 216668. | 0. | 125844. | 2.052 | 2.106 |
| SM | 88.303 | 922.418 | 5624511. | 64615252. | -77921744. | 3163818. | 85.901 | 893.071 |
| AV | 0.231 | 1.373 | 8370. | 96154. | -115955. | 4708. | 0.128 | 1.329 |
| MONTHLY SUMMARY (MAR) | | | | | | | | |
| MN | 0.000 | 0.000 | 1600. | 0. | -182915. | 1600. | 0.000 | 0.000 |
| MX | 1.759 | 2.165 | 126532. | 286477. | 0. | 97036. | 3.343 | 2.106 |
| SM | 68.769 | 1011.195 | 2632770. | 70233904. | -85421248. | 1693159. | 78.259 | 979.429 |
| AV | 0.092 | 1.359 | 3539. | 94400. | -114814. | 2276. | 0.105 | 1.316 |
| MONTHLY SUMMARY (APR) | | | | | | | | |
| MN | 0.000 | 0.000 | 1600. | 0. | -182915. | 1600. | 0.000 | 0.000 |
| MX | 5.525 | 2.165 | 51408. | 246091. | 0. | 1600. | 5.412 | 2.106 |
| SM | 219.248 | 974.385 | 1319538. | 67592480. | -82311696. | 1152000. | 440.357 | 949.941 |
| AV | 0.304 | 1.353 | 1833. | 93878. | -114322. | 1600. | 0.612 | 1.319 |
| MONTHLY SUMMARY (MAY) | | | | | | | | |
| MN | 0.000 | 0.000 | 1600. | 0. | -182915. | 1600. | 0.000 | 0.000 |
| MX | 8.495 | 2.165 | 40820. | 154357. | 0. | 29729. | 8.531 | 2.106 |
| SM | 1707.159 | 1030.683 | 1550600. | 62174492. | -87067472. | 1270957. | 1827.328 | 989.961 |
| AV | 2.295 | 1.385 | 2084. | 83568. | -117026. | 1708. | 2.456 | 1.331 |
| MONTHLY SUMMARY (JUN) | | | | | | | | |
| MN | 0.000 | 0.000 | 1600. | 0. | -182915. | 1600. | 0.000 | 0.000 |
| MX | 11.334 | 2.165 | 1600. | 148962. | 0. | 1600. | 11.118 | 2.106 |
| SM | 2648.886 | 974.385 | 1152000. | 56274852. | -82311696. | 1152000. | 2698.377 | 947.835 |
| AV | 3.679 | 1.353 | 1600. | 78160. | -114322. | 1600. | 3.748 | 1.316 |
| MONTHLY SUMMARY (JUL) | | | | | | | | |
| MN | 0.000 | 0.000 | 1600. | 0. | -182915. | 1600. | 0.000 | 0.000 |
| MX | 11.760 | 2.165 | 1600. | 156804. | 0. | 1600. | 11.500 | 2.106 |
| SM | 2861.094 | 1006.864 | 1190400. | 58579572. | -85055416. | 1190400. | 2874.969 | 979.429 |
| AV | 3.846 | 1.353 | 1600. | 78736. | -114322. | 1600. | 3.864 | 1.316 |

| | AC-17 | AC-17 | AC-17 | AC-17 | AC-17 | AC-18 | AC-18 | AC-18 |
|-----------------------|---------------------------|--------------------------|--------------------------|-------------------------------|-------------------------------|--------------------------|---------------------------|--------------------------|
| | COOLING ELECTRIC KW | SUPPLY ELECTRIC KW | HEATING GAS BTU/HR | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR | HEATING GAS BTU/HR | COOLING ELECTRIC KW | SUPPLY ELECTRIC KW |
| | ----(47) | ----(49) | ----(45) | ----(70) | ----(78) | ----(45) | ----(47) | ----(49) |
| MONTHLY SUMMARY (AUG) | | | | | | | | |
| MN | 0.000 | 0.000 | 1600. | 0. | -182915. | 1600. | 0.000 | 0.000 |
| MX | 11.599 | 2.165 | 1600. | 150954. | 0. | 1600. | 11.420 | 2.106 |
| SM | 2928.888 | 1006.864 | 1190400. | 58354624. | -85055416. | 1190400. | 2962.319 | 979.429 |
| AV | 3.937 | 1.353 | 1600. | 78434. | -114322. | 1600. | 3.982 | 1.316 |
| MONTHLY SUMMARY (SEP) | | | | | | | | |
| MN | 0.000 | 0.000 | 1600. | 0. | -182915. | 1600. | 0.000 | 0.000 |
| MX | 10.560 | 2.165 | 1600. | 152866. | 0. | 1600. | 10.423 | 2.106 |
| SM | 2168.013 | 974.385 | 1152000. | 57542008. | -82311696. | 1152000. | 2254.253 | 947.835 |
| AV | 3.011 | 1.353 | 1600. | 79919. | -114322. | 1600. | 3.131 | 1.316 |
| MONTHLY SUMMARY (OCT) | | | | | | | | |
| MN | 0.000 | 0.000 | 1600. | 0. | -182915. | 1600. | 0.000 | 0.000 |
| MX | 7.072 | 2.165 | 37043. | 194710. | 0. | 11533. | 7.335 | 2.106 |
| SM | 1226.290 | 1019.856 | 1513510. | 63487132. | -86152904. | 1229509. | 1378.546 | 979.429 |
| AV | 1.648 | 1.371 | 2034. | 85332. | -115797. | 1553. | 1.853 | 1.316 |
| MONTHLY SUMMARY (NOV) | | | | | | | | |
| MN | 0.000 | 0.000 | 1600. | 0. | -182915. | 1600. | 0.000 | 0.000 |
| MX | 5.369 | 2.165 | 114228. | 258514. | 0. | 59650. | 6.758 | 2.106 |
| SM | 194.913 | 976.550 | 2121928. | 68311856. | -82494608. | 1359738. | 229.084 | 952.047 |
| AV | 0.257 | 1.356 | 2947. | 94878. | -114576. | 1589. | 0.318 | 1.322 |
| MONTHLY SUMMARY (DEC) | | | | | | | | |
| MN | 0.000 | 0.000 | 1600. | 0. | -182915. | 1600. | 0.000 | 0.000 |
| MX | 2.129 | 2.165 | 122978. | 239410. | 0. | 92408. | 2.139 | 2.106 |
| SM | 165.580 | 1022.021 | 4862054. | 71698848. | -86335832. | 2488035. | 103.141 | 979.429 |
| AV | 0.223 | 1.374 | 6535. | 96369. | -116043. | 3344. | 0.139 | 1.316 |
| YEARLY SUMMARY | | | | | | | | |
| MN | 0.000 | 0.000 | 1600. | 0. | -182915. | 1600. | 0.000 | 0.000 |
| MX | 11.760 | 2.165 | 157179. | 286477. | 0. | 134933. | 11.500 | 2.106 |
| SM | 14443.274 | 11943.793 | 30933762. | 772584320. | -1008958400. | 20662758. | 15074.695 | 11572.011 |
| AV | 1.649 | 1.363 | 3531. | 88195. | -115178. | 2359. | 1.721 | 1.321 |

| MDDHH | AC-18 | AC-18 | AC-19 | AC-19 | AC-19 | AC-19 | AC-19 | AC-19 | AC-21 |
|-----------------------|-------------------------------|-------------------------------|--------------------------|---------------------------|--------------------------|-------------------------------|-------------------------------|--------------------------|-------|
| | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR | HEATING GAS BTU/HR | COOLING ELECTRIC KW | SUPPLY ELECTRIC KW | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR | HEATING GAS BTU/HR | |
| | ----(70) | ----(78) | ----(45) | ----(47) | ----(49) | ----(70) | ----(78) | ----(45) | |
| MONTHLY SUMMARY (JAN) | | | | | | | | | |
| MN | 0. | -177931. | 1600. | 0.000 | 0.000 | 0. | -177931. | 1600. | |
| MX | 234434. | 0. | 134933. | 2.177 | 2.106 | 234434. | 0. | 157034. | |
| SM | 72072720. | -83983344. | 3620652. | 142.161 | 994.173 | 72072720. | -83983344. | 6393482. | |
| AV | 96872. | -112881. | 4866. | 0.191 | 1.336 | 96872. | -112881. | 8593. | |
| MONTHLY SUMMARY (FEB) | | | | | | | | | |
| MN | 0. | -177931. | 1600. | 0.000 | 0.000 | 0. | -177931. | 1600. | |
| MX | 213274. | 0. | 125844. | 2.052 | 2.106 | 213274. | 0. | 143450. | |
| SM | 63162108. | -75442680. | 3163818. | 85.901 | 893.071 | 63162108. | -75442680. | 5397488. | |
| AV | 93991. | -112266. | 4708. | 0.128 | 1.329 | 93991. | -112266. | 8032. | |
| MONTHLY SUMMARY (MAR) | | | | | | | | | |
| MN | 0. | -177931. | 1600. | 0.000 | 0.000 | 0. | -177931. | 1600. | |
| MX | 282673. | 0. | 97036. | 3.343 | 2.106 | 282673. | 0. | 123613. | |
| SM | 58696056. | -82737840. | 1693159. | 78.259 | 979.429 | 58696056. | -82737840. | 2543106. | |
| AV | 92333. | -111207. | 2276. | 0.105 | 1.316 | 92333. | -111207. | 3418. | |
| MONTHLY SUMMARY (APR) | | | | | | | | | |
| MN | 0. | -177931. | 1600. | 0.000 | 0.000 | 0. | -177931. | 1600. | |
| MX | 206632. | 0. | 1600. | 6.412 | 2.106 | 206632. | 0. | 50586. | |
| SM | 55825380. | -80246808. | 1152000. | 440.357 | 949.941 | 55825380. | -80246808. | 1292136. | |
| AV | 91424. | -111454. | 1600. | 0.612 | 1.319 | 91424. | -111454. | 1795. | |
| MONTHLY SUMMARY (MAY) | | | | | | | | | |
| MN | 0. | -177931. | 1600. | 0.000 | 0.000 | 0. | -177931. | 1600. | |
| MX | 144384. | 0. | 29729. | 8.531 | 2.106 | 144384. | 0. | 40504. | |
| SM | 59711464. | -83627488. | 1270957. | 1827.328 | 989.961 | 59711464. | -83627488. | 1540544. | |
| AV | 80257. | -112403. | 1708. | 2.456 | 1.331 | 80257. | -112403. | 2071. | |
| MONTHLY SUMMARY (JUN) | | | | | | | | | |
| MN | 0. | -177931. | 1600. | 0.000 | 0.000 | 0. | -177931. | 1600. | |
| MX | 145427. | 0. | 1600. | 11.118 | 2.106 | 145427. | 0. | 1600. | |
| SM | 54859972. | -80068880. | 1152000. | 2698.377 | 947.835 | 54859972. | -80068880. | 1152000. | |
| AV | 76194. | -111207. | 1600. | 3.748 | 1.316 | 76194. | -111207. | 1600. | |
| MONTHLY SUMMARY (JUL) | | | | | | | | | |
| MN | 0. | -177931. | 1600. | 0.000 | 0.000 | 0. | -177931. | 1600. | |
| MX | 152902. | 0. | 1600. | 11.500 | 2.106 | 152902. | 0. | 1600. | |
| SM | 57088628. | -82737840. | 1190400. | 2874.969 | 979.429 | 57088628. | -82737840. | 1190400. | |
| AV | 76732. | -111207. | 1600. | 3.864 | 1.316 | 76732. | -111207. | 1600. | |

| | AC-18 | AC-18 | AC-19 | AC-19 | AC-19 | AC-19 | AC-19 | AC-21 |
|-----------------------|-------------------------------|-------------------------------|--------------------------|---------------------------|--------------------------|-------------------------------|-------------------------------|--------------------------|
| | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR | HEATING GAS BTU/HR | COOLING ELECTRIC KW | SUPPLY ELECTRIC KW | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR | HEATING GAS BTU/HR |
| | ---(70) | ---(78) | ---(45) | ---(47) | ---(49) | ---(70) | ---(78) | ---(45) |
| MONTHLY SUMMARY (AUG) | | | | | | | | |
| MN | 0. | -177931. | 1600. | 0.000 | 0.000 | 0. | -177931. | 1600. |
| MX | 147178. | 0. | 1600. | 11.420 | 2.106 | 147178. | 0. | 1600. |
| SM | 56885316. | -82737840. | 1190400. | 2962.319 | 979.429 | 56885316. | -82737840. | 1190400. |
| AV | 76459. | -111207. | 1600. | 3.982 | 1.316 | 76459. | -111207. | 1600. |
| MONTHLY SUMMARY (SEP) | | | | | | | | |
| MN | 0. | -177931. | 1600. | 0.000 | 0.000 | 0. | -177931. | 1600. |
| MX | 149345. | 0. | 1600. | 10.423 | 2.106 | 149345. | 0. | 1600. |
| SM | 56079080. | -80068880. | 1152000. | 2254.253 | 947.835 | 56079080. | -80068880. | 1152000. |
| AV | 77888. | -111207. | 1600. | 3.131 | 1.316 | 77888. | -111207. | 1600. |
| MONTHLY SUMMARY (OCT) | | | | | | | | |
| MN | 0. | -177931. | 1600. | 0.000 | 0.000 | 0. | -177931. | 1600. |
| MX | 176171. | 0. | 11583. | 7.335 | 2.106 | 176171. | 0. | 31628. |
| SM | 60914120. | -82737840. | 1229509. | 1378.546 | 979.429 | 60914120. | -82737840. | 1452512. |
| AV | 81874. | -111207. | 1653. | 1.853 | 1.316 | 81874. | -111207. | 1952. |
| MONTHLY SUMMARY (NOV) | | | | | | | | |
| MN | 0. | -177931. | 1600. | 0.000 | 0.000 | 0. | -177931. | 1600. |
| MX | 253779. | 0. | 69650. | 6.758 | 2.106 | 253779. | 0. | 110729. |
| SM | 67071136. | -80424744. | 1359788. | 229.084 | 952.047 | 67071136. | -80424744. | 2024805. |
| AV | 93154. | -111701. | 1889. | 0.318 | 1.322 | 93154. | -111701. | 2812. |
| MONTHLY SUMMARY (DEC) | | | | | | | | |
| MN | 0. | -177931. | 1600. | 0.000 | 0.000 | 0. | -177931. | 1600. |
| MX | 236315. | 0. | 92408. | 2.139 | 2.106 | 236315. | 0. | 120765. |
| SM | 69705824. | -82737840. | 2488085. | 103.141 | 979.429 | 69705824. | -82737840. | 4591810. |
| AV | 93691. | -111207. | 3344. | 0.139 | 1.316 | 93691. | -111207. | 6172. |
| YEARLY SUMMARY | | | | | | | | |
| MN | 0. | -177931. | 1600. | 0.000 | 0.000 | 0. | -177931. | 1600. |
| MX | 282673. | 0. | 134933. | 11.500 | 2.106 | 282673. | 0. | 157034. |
| SM | 752071808. | -977552064. | 20662758. | 15074.695 | 11572.011 | 752071808. | -977552064. | 29920684. |
| AV | 85853. | -111593. | 2359. | 1.721 | 1.321 | 85853. | -111593. | 3416. |

| MMDDHH | AC-21 | AC-21 | AC-21 | AC-21 | AC-25 | AC-25 | AC-25 | AC-25 |
|-----------------------|---------------------------|--------------------------|-------------------------------|-------------------------------|--------------------------|---------------------------|--------------------------|-------------------------------|
| | COOLING ELECTRIC KW | SUPPLY ELECTRIC KW | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR | HEATING GAS BTU/HR | COOLING ELECTRIC KW | SUPPLY ELECTRIC KW | COOLING CAPACITY BTU/HR |
| | ----(47) | ----(49) | ----(70) | ----(78) | ----(45) | ----(47) | ----(49) | ----(70) |
| MONTHLY SUMMARY (JAN) | | | | | | | | |
| MN | 0.000 | 0.000 | 0. | -184909. | 1600. | 0.000 | 0.000 | 0. |
| MX | 2.141 | 2.189 | 277404. | 0. | 170814. | 2.247 | 2.248 | 284358. |
| SM | 175.660 | 1035.350 | 74486400. | -87461704. | 8903244. | 177.460 | 1070.000 | 76586912. |
| AV | 0.236 | 1.392 | 100116. | -117556. | 11967. | 0.239 | 1.438 | 102939. |
| MONTHLY SUMMARY (FEB) | | | | | | | | |
| MN | 0.000 | 0.000 | 0. | -184909. | 1600. | 0.000 | 0.000 | 0. |
| MX | 1.932 | 2.189 | 219137. | 0. | 156535. | 2.352 | 2.248 | 223482. |
| SM | 37.999 | 928.094 | 64991588. | -78401200. | 7656226. | 137.619 | 973.341 | 67607144. |
| AV | 0.131 | 1.381 | 96714. | -116668. | 11393. | 0.205 | 1.448 | 100606. |
| MONTHLY SUMMARY (MAR) | | | | | | | | |
| MN | 0.000 | 0.000 | 0. | -184909. | 1600. | 0.000 | 0.000 | 0. |
| MX | 1.863 | 2.189 | 289674. | 0. | 138463. | 1.951 | 2.248 | 294807. |
| SM | 71.935 | 1022.216 | 71005408. | -86352256. | 3629351. | 75.117 | 1054.265 | 72734056. |
| AV | 0.097 | 1.374 | 95437. | -116065. | 4878. | 0.101 | 1.417 | 97761. |
| MONTHLY SUMMARY (APR) | | | | | | | | |
| MN | 0.000 | 0.000 | 0. | -184909. | 1600. | 0.000 | 0.000 | 0. |
| MX | 5.825 | 2.189 | 248674. | 0. | 70491. | 4.989 | 2.248 | 280069. |
| SM | 231.983 | 985.005 | 68298616. | -83208816. | 1575263. | 140.182 | 1011.555 | 69908624. |
| AV | 0.322 | 1.368 | 94859. | -115568. | 2188. | 0.195 | 1.405 | 97095. |
| MONTHLY SUMMARY (MAY) | | | | | | | | |
| MN | 0.000 | 0.000 | 0. | -184909. | 1600. | 0.000 | 0.000 | 0. |
| MX | 8.609 | 2.189 | 154225. | 0. | 45387. | 8.616 | 2.248 | 164410. |
| SM | 1727.490 | 1044.105 | 62944584. | -88201336. | 1777205. | 1650.275 | 1072.248 | 64598768. |
| AV | 2.322 | 1.403 | 84603. | -118550. | 2389. | 2.218 | 1.441 | 86826. |
| MONTHLY SUMMARY (JUN) | | | | | | | | |
| MN | 0.000 | 0.000 | 0. | -184909. | 1600. | 0.000 | 0.000 | 0. |
| MX | 11.425 | 2.189 | 150534. | 0. | 1600. | 11.592 | 2.248 | 154111. |
| SM | 2669.679 | 985.005 | 56840048. | -83208816. | 1152000. | 2651.305 | 1011.555 | 58257688. |
| AV | 3.708 | 1.368 | 78945. | -115568. | 1600. | 3.682 | 1.405 | 80913. |
| MONTHLY SUMMARY (JUL) | | | | | | | | |
| MN | 0.000 | 0.000 | 0. | -184909. | 1600. | 0.000 | 0.000 | 0. |
| MX | 11.861 | 2.189 | 158468. | 0. | 1600. | 12.126 | 2.248 | 162290. |
| SM | 2886.158 | 1017.838 | 59156840. | -85982440. | 1190400. | 2883.212 | 1045.274 | 60638464. |
| AV | 3.879 | 1.368 | 79512. | -115568. | 1600. | 3.875 | 1.405 | 81503. |

| | AC-21 | AC-21 | AC-21 | AC-21 | AC-25 | AC-25 | AC-25 | AC-25 |
|-----------------------|---------------------------|--------------------------|-------------------------------|-------------------------------|--------------------------|---------------------------|--------------------------|-------------------------------|
| | COOLING ELECTRIC KW | SUPPLY ELECTRIC KW | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR | HEATING GAS BTU/HR | COOLING ELECTRIC KW | SUPPLY ELECTRIC KW | COOLING CAPACITY BTU/HR |
| | ----(47) | ----(49) | ----(70) | ----(78) | ----(45) | ----(47) | ----(49) | ----(70) |
| MONTHLY SUMMARY (AUG) | | | | | | | | |
| MN | 0.000 | 0.000 | 0. | -184909. | 1600. | 0.000 | 0.000 | 0. |
| MX | 11.749 | 2.189 | 152547. | 0. | 1600. | 11.936 | 2.248 | 156326. |
| SM | 2968.604 | 1017.838 | 58933952. | -85982440. | 1190400. | 2947.051 | 1045.274 | 60406884. |
| AV | 3.990 | 1.368 | 79212. | -115568. | 1600. | 3.961 | 1.405 | 81192. |
| MONTHLY SUMMARY (SEP) | | | | | | | | |
| MN | 0.000 | 0.000 | 0. | -184909. | 1600. | 0.000 | 0.000 | 0. |
| MX | 10.774 | 2.189 | 154557. | 0. | 6757. | 10.881 | 2.248 | 158136. |
| SM | 2220.284 | 985.005 | 58125848. | -83208816. | 1157157. | 2142.030 | 1011.555 | 59595664. |
| AV | 3.084 | 1.368 | 80730. | -115568. | 1607. | 2.975 | 1.405 | 82772. |
| MONTHLY SUMMARY (OCT) | | | | | | | | |
| MN | 0.000 | 0.000 | 0. | -184909. | 1600. | 0.000 | 0.000 | 0. |
| MX | 7.311 | 2.189 | 196983. | 0. | 52906. | 7.013 | 2.248 | 200976. |
| SM | 1277.614 | 1028.783 | 63976212. | -86906976. | 1763613. | 1159.064 | 1063.257 | 66080412. |
| AV | 1.717 | 1.383 | 85990. | -116810. | 2370. | 1.558 | 1.429 | 88818. |
| MONTHLY SUMMARY (NOV) | | | | | | | | |
| MN | 0.000 | 0.000 | 0. | -184909. | 1600. | 0.000 | 0.000 | 0. |
| MX | 6.525 | 2.189 | 261498. | 0. | 126363. | 6.111 | 2.248 | 266917. |
| SM | 188.822 | 987.194 | 69068984. | -83393728. | 2879661. | 199.231 | 1016.051 | 70522456. |
| AV | 0.262 | 1.371 | 95929. | -115825. | 4000. | 0.277 | 1.411 | 97948. |
| MONTHLY SUMMARY (DEC) | | | | | | | | |
| MN | 0.000 | 0.000 | 0. | -184909. | 1600. | 0.000 | 0.000 | 0. |
| MX | 2.070 | 2.189 | 242175. | 0. | 132756. | 2.179 | 2.248 | 246506. |
| SM | 159.467 | 1033.161 | 72542848. | -87276800. | 6684050. | 187.273 | 1076.744 | 74682560. |
| AV | 0.214 | 1.389 | 97504. | -117308. | 8984. | 0.252 | 1.447 | 100380. |
| YEARLY SUMMARY | | | | | | | | |
| MN | 0.000 | 0.000 | 0. | -184909. | 1600. | 0.000 | 0.000 | 0. |
| MX | 11.861 | 2.189 | 289674. | 0. | 170814. | 12.126 | 2.248 | 294807. |
| SM | 14665.695 | 12069.594 | 780371328. | -1019585472. | 39558568. | 14349.818 | 12451.119 | 801619584. |
| AV | 1.674 | 1.378 | 89083. | -116391. | 4516. | 1.638 | 1.421 | 91509. |

| MMDDHH | AC-25 | AC-22 | AC-22 | AC-22 | AC-22 | AC-22 | AC-23 | AC-23 |
|-----------------------|-------------------------------|--------------------------|---------------------------|--------------------------|-------------------------------|-------------------------------|--------------------------|---------------------------|
| | HEATING CAPACITY BTU/HR | HEATING GAS BTU/HR | COOLING ELECTRIC KW | SUPPLY ELECTRIC KW | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR | HEATING GAS BTU/HR | COOLING ELECTRIC KW |
| | ----(78) | ----(45) | ----(47) | ----(49) | ----(70) | ----(78) | ----(45) | ----(47) |
| MONTHLY SUMMARY (JAN) | | | | | | | | |
| MN | -189893. | 1600. | 0.000 | 0.000 | 0. | -184410. | 1600. | 0.000 |
| MX | 0. | 150721. | 2.139 | 2.183 | 276737. | 0. | 150721. | 2.139 |
| SM | -90388872. | 5588395. | 178.730 | 1032.559 | 74345512. | -87226000. | 5588395. | 178.730 |
| AV | -121490. | 7511. | 0.240 | 1.388 | 99927. | -117239. | 7511. | 0.240 |
| MONTHLY SUMMARY (FEB) | | | | | | | | |
| MN | -189893. | 1600. | 0.000 | 0.000 | 0. | -184410. | 1600. | 0.000 |
| MX | 0. | 138843. | 2.093 | 2.183 | 219090. | 0. | 138843. | 2.093 |
| SM | -82223496. | 4738895. | 84.891 | 925.592 | 64960048. | -78189904. | 4738895. | 84.891 |
| AV | -122356. | 7052. | 0.126 | 1.377 | 96667. | -116354. | 7052. | 0.126 |
| MONTHLY SUMMARY (MAR) | | | | | | | | |
| MN | -189893. | 1600. | 0.000 | 0.000 | 0. | -184410. | 1600. | 0.000 |
| MX | 0. | 118476. | 1.947 | 2.183 | 289733. | 0. | 118476. | 1.947 |
| SM | -89059632. | 2280415. | 59.810 | 1017.278 | 70859744. | -85935128. | 2280415. | 59.810 |
| AV | -119704. | 3065. | 0.080 | 1.367 | 95242. | -115504. | 3065. | 0.080 |
| MONTHLY SUMMARY (APR) | | | | | | | | |
| MN | -189893. | 1600. | 0.000 | 0.000 | 0. | -134410. | 1600. | 0.000 |
| MX | 0. | 40657. | 6.028 | 2.183 | 210895. | 0. | 40657. | 6.028 |
| SM | -85451672. | 1242085. | 285.096 | 982.350 | 68071864. | -82984568. | 1242085. | 285.096 |
| AV | -118683. | 1725. | 0.396 | 1.364 | 94544. | -115256. | 1725. | 0.396 |
| MONTHLY SUMMARY (MAY) | | | | | | | | |
| MN | -189893. | 1600. | 0.000 | 0.000 | 0. | -134410. | 1600. | 0.000 |
| MX | 0. | 34180. | 8.650 | 2.133 | 152138. | 0. | 34180. | 8.650 |
| SM | -90578784. | 1422999. | 1764.060 | 1032.559 | 62193708. | -87226000. | 1422999. | 1764.060 |
| AV | -121746. | 1913. | 2.371 | 1.388 | 83594. | -117239. | 1913. | 2.371 |
| MONTHLY SUMMARY (JUN) | | | | | | | | |
| MN | -189893. | 1600. | 0.000 | 0.000 | 0. | -184410. | 1600. | 0.000 |
| MX | 0. | 1600. | 11.367 | 2.183 | 150189. | 0. | 1600. | 11.367 |
| SM | -85451672. | 1152000. | 2696.959 | 982.350 | 56698716. | -82984568. | 1152000. | 2696.959 |
| AV | -118683. | 1600. | 3.746 | 1.364 | 78748. | -115256. | 1600. | 3.746 |
| MONTHLY SUMMARY (JUL) | | | | | | | | |
| MN | -189893. | 1600. | 0.000 | 0.000 | 0. | -134410. | 1600. | 0.000 |
| MX | 0. | 1600. | 11.846 | 2.183 | 157983. | 0. | 1600. | 11.846 |
| SM | -88300064. | 1190400. | 2894.006 | 1015.095 | 59005704. | -85750720. | 1190400. | 2894.006 |
| AV | -118683. | 1600. | 3.890 | 1.364 | 79309. | -115256. | 1600. | 3.890 |

| | AC-25 | AC-22 | AC-22 | AC-22 | AC-22 | AC-22 | AC-23 | AC-23 |
|-----------------------|-------------------------------|--------------------------|---------------------------|--------------------------|-------------------------------|-------------------------------|--------------------------|---------------------------|
| | HEATING CAPACITY BTU/HR | HEATING GAS BTU/HR | COOLING ELECTRIC KW | SUPPLY ELECTRIC KW | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR | HEATING GAS BTU/HR | COOLING ELECTRIC KW |
| | ---(78) | ---(45) | ---(47) | ---(49) | ---(70) | ---(78) | ---(45) | ---(47) |
| MONTHLY SUMMARY (AUG) | | | | | | | | |
| MN | -189893. | 1600. | 0.000 | 0.000 | 0. | -184410. | 1600. | 0.000 |
| MX | 0. | 1600. | 11.748 | 2.183 | 152163. | 0. | 1600. | 11.748 |
| SM | -88300064. | 1190400. | 2977.198 | 1015.095 | 58791668. | -85750720. | 1190400. | 2977.198 |
| AV | -118683. | 1600. | 4.002 | 1.364 | 79021. | -115256. | 1600. | 4.002 |
| MONTHLY SUMMARY (SEP) | | | | | | | | |
| MN | -189893. | 1600. | 0.000 | 0.000 | 0. | -184410. | 1600. | 0.000 |
| MX | 0. | 1600. | 10.740 | 2.183 | 154202. | 0. | 1600. | 10.740 |
| SM | -85451672. | 1152000. | 2222.083 | 982.350 | 57977984. | -82984568. | 1152000. | 2222.083 |
| AV | -118683. | 1600. | 3.086 | 1.364 | 80525. | -115256. | 1600. | 3.086 |
| MONTHLY SUMMARY (OCT) | | | | | | | | |
| MN | -189893. | 1600. | 0.000 | 0.000 | 0. | -184410. | 1600. | 0.000 |
| MX | 0. | 27942. | 7.264 | 2.183 | 196787. | 0. | 27942. | 7.264 |
| SM | -89819200. | 1394002. | 1293.530 | 1023.827 | 63662920. | -86488360. | 1394002. | 1293.530 |
| AV | -120725. | 1874. | 1.739 | 1.376 | 85568. | -116248. | 1874. | 1.739 |
| MONTHLY SUMMARY (NOV) | | | | | | | | |
| MN | -189893. | 1600. | 0.000 | 0.000 | 0. | -184410. | 1600. | 0.000 |
| MX | 0. | 101586. | 6.490 | 2.183 | 261083. | 0. | 101586. | 6.490 |
| SM | -85831456. | 1786585. | 186.036 | 986.716 | 69145456. | -83353384. | 1786585. | 186.036 |
| AV | -119210. | 2481. | 0.258 | 1.370 | 96035. | -115769. | 2481. | 0.258 |
| MONTHLY SUMMARY (DEC) | | | | | | | | |
| MN | -189893. | 1600. | 0.000 | 0.000 | 0. | -184410. | 1600. | 0.000 |
| MX | 0. | 117010. | 2.167 | 2.183 | 242130. | 0. | 117010. | 2.167 |
| SM | -90958552. | 3926879. | 134.680 | 1026.010 | 72267880. | -86672768. | 3926879. | 134.680 |
| AV | -122256. | 5278. | 0.181 | 1.379 | 97134. | -116496. | 5278. | 0.181 |
| YEARLY SUMMARY | | | | | | | | |
| MN | -189893. | 1600. | 0.000 | 0.000 | 0. | -184410. | 1600. | 0.000 |
| MX | 0. | 150721. | 11.846 | 2.183 | 289733. | 0. | 150721. | 11.846 |
| SM | -1051815104. | 27065052. | 14777.079 | 12021.779 | 777981248. | -1015546752. | 27065052. | 14777.079 |
| AV | -120070. | 3090. | 1.687 | 1.372 | 88811. | -115930. | 3090. | 1.687 |

| MMDDHH | AC-23 | AC-23 | AC-23 | AC-24 | AC-24 | AC-24 | AC-24 | AC-24 |
|-----------------------|--------------------------|-------------------------------|-------------------------------|--------------------------|---------------------------|--------------------------|-------------------------------|-------------------------------|
| | SUPPLY ELECTRIC KW | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR | HEATING GAS BTU/HR | COOLING ELECTRIC KW | SUPPLY ELECTRIC KW | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR |
| | ----(49) | ----(70) | ----(78) | ----(45) | ----(47) | ----(49) | ----(70) | ----(78) |
| MONTHLY SUMMARY (JAN) | | | | | | | | |
| MN | 0.000 | 0. | -184410. | 1600. | 0.000 | 0.000 | 0. | -191388. |
| MX | 2.183 | 276737. | 0. | 170697. | 2.308 | 2.266 | 286494. | 0. |
| SM | 1032.559 | 74345512. | -87226000. | 8625358. | 175.058 | 1078.426 | 77260456. | -91100576. |
| AV | 1.388 | 99927. | -117239. | 11593. | 0.235 | 1.449 | 103845. | -122447. |
| MONTHLY SUMMARY (FEB) | | | | | | | | |
| MN | 0.000 | 0. | -184410. | 1600. | 0.000 | 0.000 | 0. | -191388. |
| MX | 2.183 | 219090. | 0. | 155532. | 2.376 | 2.266 | 225357. | 0. |
| SM | 925.592 | 64960048. | -78189904. | 7374066. | 119.454 | 981.005 | 68232232. | -82870896. |
| AV | 1.377 | 96667. | -116354. | 10973. | 0.178 | 1.460 | 101536. | -123320. |
| MONTHLY SUMMARY (MAR) | | | | | | | | |
| MN | 0.000 | 0. | -184410. | 1600. | 0.000 | 0.000 | 0. | -191388. |
| MX | 2.183 | 289733. | 0. | 136482. | 2.052 | 2.266 | 297191. | 0. |
| SM | 1017.278 | 70859744. | -85935128. | 3477973. | 75.721 | 1062.567 | 73297512. | -89760856. |
| AV | 1.367 | 95242. | -115504. | 4675. | 0.102 | 1.428 | 98518. | -120646. |
| MONTHLY SUMMARY (APR) | | | | | | | | |
| MN | 0.000 | 0. | -184410. | 1600. | 0.000 | 0.000 | 0. | -191388. |
| MX | 2.183 | 210895. | 0. | 69869. | 5.214 | 2.266 | 282335. | 0. |
| SM | 982.350 | 68071864. | -82984568. | 1541378. | 148.156 | 1019.520 | 70434776. | -86124488. |
| AV | 1.364 | 94544. | -115256. | 2141. | 0.206 | 1.416 | 97826. | -119617. |
| MONTHLY SUMMARY (MAY) | | | | | | | | |
| MN | 0.000 | 0. | -184410. | 1600. | 0.000 | 0.000 | 0. | -191388. |
| MX | 2.183 | 152138. | 0. | 45074. | 8.728 | 2.266 | 165644. | 0. |
| SM | 1032.559 | 62193708. | -87226000. | 1764776. | 1668.858 | 1080.691 | 65067960. | -91291960. |
| AV | 1.388 | 83594. | -117239. | 2372. | 2.243 | 1.453 | 87457. | -122704. |
| MONTHLY SUMMARY (JUN) | | | | | | | | |
| MN | 0.000 | 0. | -184410. | 1600. | 0.000 | 0.000 | 0. | -191388. |
| MX | 2.183 | 150189. | 0. | 1600. | 11.573 | 2.266 | 155299. | 0. |
| SM | 982.350 | 56698716. | -82984568. | 1152000. | 2670.170 | 1019.520 | 58684568. | -86124488. |
| AV | 1.364 | 78748. | -115256. | 1600. | 3.709 | 1.416 | 81506. | -119617. |
| MONTHLY SUMMARY (JUL) | | | | | | | | |
| MN | 0.000 | 0. | -184410. | 1600. | 0.000 | 0.000 | 0. | -191388. |
| MX | 2.183 | 157983. | 0. | 1600. | 12.206 | 2.266 | 163549. | 0. |
| SM | 1015.095 | 59005704. | -85750720. | 1190400. | 2905.725 | 1053.504 | 61074624. | -88995304. |
| AV | 1.364 | 79309. | -115256. | 1600. | 3.906 | 1.416 | 82090. | -119617. |

| | AC-23 | AC-23 | AC-23 | AC-24 | AC-24 | AC-24 | AC-24 | AC-24 |
|-----------------------|--------------------------|-------------------------------|-------------------------------|--------------------------|---------------------------|--------------------------|-------------------------------|-------------------------------|
| | SUPPLY ELECTRIC KW | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR | HEATING GAS BTU/HR | COOLING ELECTRIC KW | SUPPLY ELECTRIC KW | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR |
| | ---- (49) | ---- (70) | ---- (78) | ---- (45) | ---- (47) | ---- (49) | ---- (70) | ---- (78) |
| MONTHLY SUMMARY (AUG) | | | | | | | | |
| MN | 0.000 | 0. | -184410. | 1600. | 0.000 | 0.000 | 0. | -191388. |
| MX | 2.183 | 152163. | 0. | 1600. | 12.075 | 2.266 | 157529. | 0. |
| SM | 1015.095 | 58791668. | -85750720. | 1190400. | 2985.038 | 1053.504 | 60838220. | -88995304. |
| AV | 1.364 | 79021. | -115256. | 1600. | 4.012 | 1.416 | 81772. | -119617. |
| MONTHLY SUMMARY (SEP) | | | | | | | | |
| MN | 0.000 | 0. | -184410. | 1600. | 0.000 | 0.000 | 0. | -191388. |
| MX | 2.183 | 154202. | 0. | 1600. | 11.090 | 2.266 | 159429. | 0. |
| SM | 982.350 | 57977984. | -82984568. | 1152000. | 2192.289 | 1019.520 | 60027840. | -86124488. |
| AV | 1.364 | 80525. | -115256. | 1600. | 3.045 | 1.416 | 83372. | -119617. |
| MONTHLY SUMMARY (OCT) | | | | | | | | |
| MN | 0.000 | 0. | -184410. | 1600. | 0.000 | 0.000 | 0. | -191388. |
| MX | 2.183 | 196787. | 0. | 47251. | 7.248 | 2.266 | 202617. | 0. |
| SM | 1023.827 | 63662920. | -86488360. | 1679405. | 1201.376 | 1069.363 | 66433228. | -90335016. |
| AV | 1.376 | 85568. | -116248. | 2257. | 1.615 | 1.437 | 89292. | -121418. |
| MONTHLY SUMMARY (NOV) | | | | | | | | |
| MN | 0.000 | 0. | -184410. | 1600. | 0.000 | 0.000 | 0. | -191388. |
| MX | 2.183 | 261083. | 0. | 128633. | 6.263 | 2.266 | 269216. | 0. |
| SM | 986.716 | 69145456. | -83353384. | 2757351. | 191.238 | 1024.051 | 71183208. | -86507264. |
| AV | 1.370 | 96035. | -115769. | 3830. | 0.266 | 1.422 | 98866. | -120149. |
| MONTHLY SUMMARY (DEC) | | | | | | | | |
| MN | 0.000 | 0. | -184410. | 1600. | 0.000 | 0.000 | 0. | -191388. |
| MX | 2.183 | 242130. | 0. | 130942. | 2.327 | 2.266 | 248631. | 0. |
| SM | 1026.010 | 72267880. | -86672768. | 6426219. | 195.315 | 1080.691 | 74979512. | -91291952. |
| AV | 1.379 | 97134. | -116496. | 8637. | 0.263 | 1.453 | 100779. | -122704. |
| YEARLY SUMMARY | | | | | | | | |
| MN | 0.000 | 0. | -184410. | 1600. | 0.000 | 0.000 | 0. | -191388. |
| MX | 2.183 | 289733. | 0. | 170697. | 12.206 | 2.266 | 297191. | 0. |
| SM | 12021.779 | 777981248. | -1015546752. | 38331324. | 14528.399 | 12542.363 | 807514176. | -1059522624. |
| AV | 1.372 | 88811. | -115930. | 4376. | 1.658 | 1.432 | 92182. | -120950. |

| MMDDHH | AC_FRONT | AC_FRONT | AC_FRONT | AC_FRONT | AC_FRONT |
|-----------------------|--------------------------|---------------------------|--------------------------|-------------------------------|-------------------------------|
| | HEATING GAS BTU/HR | COOLING ELECTRIC KW | SUPPLY ELECTRIC KW | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR |
| | ----(45) | ----(47) | ----(49) | ----(70) | ----(78) |
| MONTHLY SUMMARY (JAN) | | | | | |
| MN | 1600. | 0.000 | 0.000 | 0. | -379785. |
| MX | 436732. | 1.045 | 4.496 | 346317. | 0. |
| SM | 64251544. | 4.501 | 2198.446 | 150119616. | -185714960. |
| AV | 86360. | 0.006 | 2.955 | 201774. | -249617. |
| MONTHLY SUMMARY (FEB) | | | | | |
| MN | 1600. | 0.000 | 0.000 | 0. | -379785. |
| MX | 438604. | 2.316 | 4.496 | 346317. | 0. |
| SM | 55574700. | 10.408 | 2000.631 | 133941376. | -169004416. |
| AV | 82700. | 0.015 | 2.977 | 199318. | -251495. |
| MONTHLY SUMMARY (MAR) | | | | | |
| MN | 1600. | 0.000 | 0.000 | 0. | -379785. |
| MX | 395946. | 2.357 | 4.496 | 347182. | 0. |
| SM | 34949972. | 59.040 | 2117.522 | 135914672. | -178878832. |
| AV | 46976. | 0.079 | 2.846 | 182681. | -240429. |
| MONTHLY SUMMARY (APR) | | | | | |
| MN | 1600. | 0.000 | 0.000 | 0. | -379785. |
| MX | 289603. | 2.921 | 4.496 | 333110. | 0. |
| SM | 11933250. | 88.211 | 2023.110 | 125420944. | -170903344. |
| AV | 16574. | 0.123 | 2.810 | 174196. | -237366. |
| MONTHLY SUMMARY (MAY) | | | | | |
| MN | 1600. | 0.000 | 0.000 | 0. | -379785. |
| MX | 189603. | 14.305 | 4.496 | 302088. | 0. |
| SM | 8145257. | 1858.351 | 2265.883 | 134384704. | -191411776. |
| AV | 10948. | 2.498 | 3.046 | 180625. | -257274. |
| MONTHLY SUMMARY (JUN) | | | | | |
| MN | 1600. | 0.000 | 0.000 | 0. | -379785. |
| MX | 57432. | 23.105 | 4.496 | 300162. | 0. |
| SM | 1515244. | 4022.190 | 2041.093 | 116508064. | -172422480. |
| AV | 2105. | 5.586 | 2.335 | 161817. | -239476. |
| MONTHLY SUMMARY (JUL) | | | | | |
| MN | 1600. | 0.000 | 0.000 | 0. | -379785. |
| MX | 1600. | 24.387 | 4.496 | 316696. | 0. |
| SM | 1190400. | 4743.045 | 2090.547 | 120301488. | -176600128. |
| AV | 1600. | 6.375 | 2.810 | 161696. | -237366. |

| | AC_FRONT | AC_FRONT | AC_FRONT | AC_FRONT | AC_FRONT |
|-----------------------|--------------------------|---------------------------|--------------------------|-------------------------------|-------------------------------|
| | HEATING GAS BTU/HR | COOLING ELECTRIC KW | SUPPLY ELECTRIC KW | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR |
| | ----(45) | ----(47) | ----(49) | ----(70) | ----(78) |
| MONTHLY SUMMARY (AUG) | | | | | |
| MN | 1600. | 0.000 | 0.000 | 0. | -379785. |
| MK | 78531. | 24.107 | 4.496 | 304979. | 0. |
| SM | 1799591. | 4635.455 | 2104.034 | 120405184. | -177739472. |
| AV | 2419. | 6.230 | 2.828 | 161835. | -238897. |
| MONTHLY SUMMARY (SEP) | | | | | |
| MN | 1600. | 0.000 | 0.000 | 0. | -379785. |
| MK | 82131. | 19.235 | 4.496 | 312346. | 0. |
| SM | 3104924. | 2864.957 | 2099.539 | 121805296. | -177359680. |
| AV | 4312. | 3.979 | 2.916 | 169174. | -246333. |
| MONTHLY SUMMARY (OCT) | | | | | |
| MN | 1600. | 0.000 | 0.000 | 0. | -379785. |
| MK | 241472. | 10.659 | 4.496 | 306464. | 0. |
| SM | 11455242. | 855.135 | 2220.925 | 134430672. | -187613920. |
| AV | 15397. | 1.149 | 2.985 | 180686. | -252169. |
| MONTHLY SUMMARY (NOV) | | | | | |
| MN | 1600. | 0.000 | 0.000 | 0. | -379785. |
| MK | 408728. | 2.694 | 4.496 | 321446. | 0. |
| SM | 27008492. | 48.874 | 2059.077 | 132267288. | -173941600. |
| AV | 37512. | 0.068 | 2.860 | 183705. | -241586. |
| MONTHLY SUMMARY (DEC) | | | | | |
| MN | 1600. | 0.000 | 0.000 | 0. | -379785. |
| MK | 391747. | 1.882 | 4.496 | 332132. | 0. |
| SM | 56572384. | 6.856 | 2202.942 | 147175408. | -186094736. |
| AV | 76038. | 0.009 | 2.961 | 197816. | -250127. |
| YEARLY SUMMARY | | | | | |
| MN | 1600. | 0.000 | 0.000 | 0. | -379785. |
| MK | 433604. | 24.387 | 4.496 | 347182. | 0. |
| SM | 27750992. | 19197.025 | 25423.750 | 1572674816. | -2147685376. |
| AV | 31678. | 2.191 | 2.902 | 179529. | -245170. |

| MMDDHH | AC_3_8 | AC_3_8 | AC_3_8 | AC_3_8 | AC_3_8 | AC-1_2 | AC-1_2 | AC-1_2 |
|-----------------------|--------------------|---------------------|--------------------|-------------------------|-------------------------|--------------------|---------------------|--------------------|
| | HEATING GAS BTU/HR | COOLING ELECTRIC KW | SUPPLY ELECTRIC KW | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR | HEATING GAS BTU/HR | COOLING ELECTRIC KW | SUPPLY ELECTRIC KW |
| | ----(45) | ----(47) | ----(49) | ----(70) | ----(78) | ----(45) | ----(47) | ----(49) |
| MONTHLY SUMMARY (JAN) | | | | | | | | |
| MN | 1600. | 0.000 | 0.000 | 0. | -675339. | 1600. | 0.000 | 0.000 |
| MX | 517776. | 5.532 | 6.171 | 546417. | 0. | 640399. | 3.071 | 6.590 |
| SM | 47504840. | 207.400 | 3017.815 | 234180016. | -330240640. | 82377688. | 23.554 | 3202.886 |
| AV | 63851. | 0.279 | 4.056 | 314758. | -443872. | 110723. | 0.032 | 4.305 |
| MONTHLY SUMMARY (FEB) | | | | | | | | |
| MN | 1600. | 0.000 | 0.000 | 0. | -675339. | 1600. | 0.000 | 0.000 |
| MX | 483352. | 4.844 | 6.171 | 540233. | 0. | 634972. | 3.089 | 6.590 |
| SM | 39730540. | 208.324 | 2746.273 | 208965952. | -300525728. | 66550208. | 31.020 | 2906.323 |
| AV | 59123. | 0.310 | 4.087 | 310961. | -447211. | 99033. | 0.046 | 4.325 |
| MONTHLY SUMMARY (MAR) | | | | | | | | |
| MN | 1600. | 0.000 | 0.000 | 0. | -675339. | 1600. | 0.000 | 0.000 |
| MX | 406607. | 7.105 | 6.171 | 498977. | 0. | 574316. | 3.452 | 6.590 |
| SM | 21550248. | 513.649 | 2912.902 | 212196096. | -318759872. | 39431388. | 108.473 | 3097.441 |
| AV | 28965. | 0.690 | 3.915 | 285210. | -428441. | 52999. | 0.146 | 4.163 |
| MONTHLY SUMMARY (APR) | | | | | | | | |
| MN | 1600. | 0.000 | 0.000 | 0. | -675339. | 1600. | 0.000 | 0.000 |
| MX | 286899. | 6.740 | 6.171 | 536677. | 0. | 331549. | 3.999 | 6.590 |
| SM | 6573587. | 426.426 | 2777.131 | 196426928. | -303902400. | 13456864. | 121.247 | 2965.635 |
| AV | 9269. | 0.592 | 3.857 | 272815. | -422087. | 16690. | 0.168 | 4.119 |
| MONTHLY SUMMARY (MAY) | | | | | | | | |
| MN | 1600. | 0.000 | 0.000 | 0. | -675339. | 1600. | 0.000 | 0.000 |
| MX | 188994. | 21.025 | 6.171 | 471238. | 0. | 246408. | 21.306 | 6.590 |
| SM | 5418397. | 3444.591 | 3030.158 | 203324016. | -331591296. | 9846311. | 2970.200 | 3295.150 |
| AV | 7283. | 4.630 | 4.073 | 273285. | -445687. | 13334. | 3.992 | 4.429 |
| MONTHLY SUMMARY (JUN) | | | | | | | | |
| MN | 1600. | 0.000 | 0.000 | 0. | -675339. | 1600. | 0.000 | 0.000 |
| MX | 18838. | 31.594 | 6.171 | 471593. | 0. | 30738. | 32.726 | 6.590 |
| SM | 1169239. | 6183.779 | 2777.131 | 178135760. | -303902400. | 1489373. | 6010.972 | 2978.816 |
| AV | 1624. | 8.589 | 3.857 | 247411. | -422087. | 2369. | 3.349 | 4.137 |
| MONTHLY SUMMARY (JUL) | | | | | | | | |
| MN | 1600. | 0.000 | 0.000 | 0. | -675339. | 1600. | 0.000 | 0.000 |
| MX | 1600. | 33.625 | 6.171 | 497134. | 0. | 1600. | 34.611 | 6.590 |
| SM | 1190400. | 6964.404 | 2869.702 | 185331184. | -314032480. | 1190400. | 6924.862 | 3064.490 |
| AV | 1600. | 9.361 | 3.857 | 249101. | -422087. | 1600. | 9.308 | 4.119 |

| | AC_3_8 | AC_3_8 | AC_3_8 | AC_3_8 | AC_3_8 | AC-1_2 | AC-1_2 | AC-1_2 |
|-----------------------|--------------------------|---------------------------|--------------------------|-------------------------------|-------------------------------|--------------------------|---------------------------|--------------------------|
| | HEATING GAS BTU/HR | COOLING ELECTRIC KW | SUPPLY ELECTRIC KW | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR | HEATING GAS BTU/HR | COOLING ELECTRIC KW | SUPPLY ELECTRIC KW |
| | ----(45) | ----(47) | ----(49) | ----(70) | ----(78) | ----(45) | ----(47) | ----(49) |
| MONTHLY SUMMARY (AUG) | | | | | | | | |
| MN | 1600. | 0.000 | 0.000 | 0. | -675339. | 1600. | 0.000 | 0.000 |
| MX | 71761. | 32.976 | 6.171 | 477912. | 0. | 109352. | 32.716 | 6.590 |
| SM | 1544665. | 6888.358 | 2875.873 | 185021424. | -314707840. | 1903601. | 6872.270 | 3077.670 |
| AV | 2076. | 9.259 | 3.865 | 248685. | -422994. | 2559. | 9.237 | 4.137 |
| MONTHLY SUMMARY (SEP) | | | | | | | | |
| MN | 1600. | 0.000 | 0.000 | 0. | -675339. | 1600. | 0.000 | 0.000 |
| MX | 78355. | 27.201 | 6.171 | 484060. | 0. | 118784. | 28.875 | 6.590 |
| SM | 1966173. | 4667.460 | 2826.502 | 185062496. | -309305088. | 3601860. | 4420.860 | 3051.309 |
| AV | 2731. | 6.483 | 3.926 | 257031. | -429590. | 5003. | 6.140 | 4.238 |
| MONTHLY SUMMARY (OCT) | | | | | | | | |
| MN | 1600. | 0.000 | 0.000 | 0. | -675339. | 1600. | 0.000 | 0.000 |
| MX | 221059. | 16.363 | 6.171 | 478065. | 0. | 329072. | 15.151 | 6.590 |
| SM | 7201174. | 1916.218 | 3005.472 | 205952448. | -328889952. | 13305519. | 1381.286 | 3242.428 |
| AV | 9679. | 2.576 | 4.040 | 276818. | -442056. | 17884. | 1.857 | 4.358 |
| MONTHLY SUMMARY (NOV) | | | | | | | | |
| MN | 1600. | 0.000 | 0.000 | 0. | -675339. | 1600. | 0.000 | 0.000 |
| MX | 415911. | 9.449 | 6.171 | 516783. | 0. | 548780. | 3.414 | 6.590 |
| SM | 16102872. | 417.211 | 2826.502 | 206405344. | -309305088. | 32122748. | 47.155 | 3018.358 |
| AV | 22365. | 0.579 | 3.926 | 286674. | -429590. | 44615. | 0.065 | 4.192 |
| MONTHLY SUMMARY (DEC) | | | | | | | | |
| MN | 1600. | 0.000 | 0.000 | 0. | -675339. | 1600. | 0.000 | 0.000 |
| MX | 405679. | 5.960 | 6.171 | 518105. | 0. | 575705. | 3.295 | 6.590 |
| SM | 37766448. | 142.938 | 3030.158 | 230077184. | -331591296. | 70185288. | 12.796 | 3209.476 |
| AV | 50761. | 0.192 | 4.073 | 309244. | -445687. | 94335. | 0.017 | 4.314 |
| YEARLY SUMMARY | | | | | | | | |
| MN | 1600. | 0.000 | 0.000 | 0. | -675339. | 1600. | 0.000 | 0.000 |
| MX | 517776. | 33.625 | 6.171 | 546417. | 0. | 640399. | 34.611 | 6.590 |
| SM | 197818576. | 31980.758 | 34695.617 | 2431078912. | -3796753920. | 335461472. | 28924.691 | 37109.984 |
| AV | 21440. | 3.651 | 3.961 | 277520. | -433419. | 38295. | 3.302 | 4.236 |

| MMDDHH | AC-1_2 | AC-1_2 | AC_EXP | AC_EXP | AC_EXP | AC_EXP | AC_EXP |
|-----------------------|-------------------------------|-------------------------------|--------------------------|---------------------------|--------------------------|-------------------------------|-------------------------------|
| | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR | HEATING GAS BTU/HR | COOLING ELECTRIC KW | SUPPLY ELECTRIC KW | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR |
| | ----(70) | ----(78) | ----(45) | ----(47) | ----(49) | ----(70) | ----(78) |
| MONTHLY SUMMARY (JAN) | | | | | | | |
| MN | 0. | -556719. | 1600. | 0.000 | 0.000 | 0. | -521332. |
| MX | 573499. | 0. | 612508. | 0.000 | 6.171 | 470959. | 0. |
| SM | 217428544. | -270565440. | 124461520. | 0.000 | 3023.987 | 204536176. | -255452880. |
| AV | 292243. | -363663. | 167287. | 0.000 | 4.064 | 274914. | -343351. |
| MONTHLY SUMMARY (FEB) | | | | | | | |
| MN | 0. | -556719. | 1600. | 0.000 | 0.000 | 0. | -521332. |
| MX | 503066. | 0. | 613932. | 0.024 | 6.171 | 470959. | 0. |
| SM | 193267504. | -245513088. | 108932480. | 0.024 | 2777.131 | 184123104. | -234599552. |
| AV | 287600. | -365347. | 162102. | 0.000 | 4.133 | 273993. | -349106. |
| MONTHLY SUMMARY (MAR) | | | | | | | |
| MN | 0. | -556719. | 1600. | 0.000 | 0.000 | 0. | -521332. |
| MX | 514398. | 0. | 608037. | 1.075 | 6.171 | 434992. | 0. |
| SM | 197890128. | -261657920. | 80811968. | 3.548 | 2919.073 | 185365904. | -246590192. |
| AV | 265981. | -351691. | 108618. | 0.005 | 3.923 | 249148. | -331438. |
| MONTHLY SUMMARY (APR) | | | | | | | |
| MN | 0. | -556719. | 1600. | 0.000 | 0.000 | 0. | -521332. |
| MX | 558289. | 0. | 480296. | 2.474 | 6.171 | 424795. | 0. |
| SM | 184318768. | -250523552. | 37039580. | 41.220 | 2777.131 | 169103264. | -234599552. |
| AV | 255998. | -347949. | 51444. | 0.057 | 3.857 | 234866. | -325833. |
| MONTHLY SUMMARY (MAY) | | | | | | | |
| MN | 0. | -556719. | 1600. | 0.000 | 0.000 | 0. | -521332. |
| MX | 503489. | 0. | 306308. | 13.085 | 6.171 | 410811. | 0. |
| SM | 193136576. | -278359520. | 25395696. | 1245.583 | 3320.214 | 195701264. | -280476832. |
| AV | 259659. | -374139. | 34134. | 1.674 | 4.463 | 263039. | -376985. |
| MONTHLY SUMMARY (JUN) | | | | | | | |
| MN | 0. | -556719. | 1600. | 0.000 | 0.000 | 0. | -521332. |
| MX | 436032. | 0. | 125830. | 26.163 | 6.171 | 405617. | 0. |
| SM | 166743600. | -251636992. | 4707136. | 3737.143 | 2894.387 | 164542016. | -244504896. |
| AV | 231588. | -349496. | 6538. | 5.190 | 4.020 | 228531. | -339590. |
| MONTHLY SUMMARY (JUL) | | | | | | | |
| MN | 0. | -556719. | 1600. | 0.000 | 0.000 | 0. | -521332. |
| MX | 460111. | 0. | 38616. | 30.544 | 6.171 | 434171. | 0. |
| SM | 172809248. | -258874336. | 1433384. | 4691.854 | 2869.702 | 164144256. | -242419536. |
| AV | 232271. | -347949. | 1927. | 6.306 | 3.857 | 220624. | -325833. |

| | AC-1_2 | AC-1_2 | AC_EXP | AC_EXP | AC_EXP | AC_EXP | AC_EXP |
|-----------------------|-------------------------------|-------------------------------|--------------------------|---------------------------|--------------------------|-------------------------------|-------------------------------|
| | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR | HEATING GAS BTU/HR | COOLING ELECTRIC KW | SUPPLY ELECTRIC KW | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR |
| | ----(70) | ----(78) | ----(45) | ----(47) | ----(49) | ----(70) | ----(78) |
| MONTHLY SUMMARY (AUG) | | | | | | | |
| MN | 0. | -556719. | 1600. | 0.000 | 0.000 | 0. | -521332. |
| MX | 442427. | 0. | 137856. | 27.313 | 6.171 | 411484. | 0. |
| SM | 172575664. | -259987776. | 3505359. | 4543.886 | 2925.244 | 166474976. | -247111536. |
| AV | 231957. | -349446. | 4712. | 6.107 | 3.932 | 223757. | -332139. |
| MONTHLY SUMMARY (SEP) | | | | | | | |
| MN | 0. | -556719. | 1600. | 0.000 | 0.000 | 0. | -521332. |
| MX | 489803. | 0. | 161715. | 19.805 | 6.171 | 415466. | 0. |
| SM | 174711323. | -257760912. | 9453492. | 2478.885 | 3030.158 | 174279600. | -255974208. |
| AV | 242655. | -358001. | 13130. | 3.443 | 4.209 | 242055. | -355520. |
| MONTHLY SUMMARY (OCT) | | | | | | | |
| MN | 0. | -556719. | 1600. | 0.000 | 0.000 | 0. | -521332. |
| MX | 468083. | 0. | 431449. | 9.508 | 6.171 | 416762. | 0. |
| SM | 195301088. | -273905760. | 31439546. | 420.231 | 3165.929 | 189220096. | -267443504. |
| AV | 262501. | -368153. | 42257. | 0.565 | 4.255 | 254328. | -359467. |
| MONTHLY SUMMARY (NOV) | | | | | | | |
| MN | 0. | -556719. | 1600. | 0.000 | 0.000 | 0. | -521332. |
| MX | 507686. | 0. | 615245. | 0.259 | 6.171 | 424795. | 0. |
| SM | 193981920. | -254977312. | 61184660. | 0.652 | 2851.187 | 180298976. | -240855536. |
| AV | 269419. | -354135. | 84979. | 0.001 | 3.960 | 250415. | -334522. |
| MONTHLY SUMMARY (DEC) | | | | | | | |
| MN | 0. | -556719. | 1600. | 0.000 | 0.000 | 0. | -521332. |
| MX | 512330. | 0. | 606315. | 0.000 | 6.171 | 451668. | 0. |
| SM | 213095584. | -271122176. | 111491816. | 0.000 | 3036.329 | 200898320. | -256495520. |
| AV | 286419. | -364412. | 149855. | 0.000 | 4.081 | 270025. | -344752. |
| YEARLY SUMMARY | | | | | | | |
| MN | 0. | -556719. | 1600. | 0.000 | 0.000 | 0. | -521332. |
| MX | 573499. | 0. | 615245. | 30.544 | 6.171 | 470959. | 0. |
| SM | 2275309824. | -3134884864. | 599856640. | 17163.027 | 35590.473 | 2178638000. | -3006523904. |
| AV | 259739. | -357864. | 68477. | 1.959 | 4.063 | 248709. | -343211. |

ENTECH ENGINEERING
READING, PA 19603
REPORT- PV-A EQUIPMENT SIZES

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
FT. GEORGE G. MEADE

DOE-2.1D 6/12/1996 9:56: 3 PDL RUN 1
BUILDING 2790 - NEW
WEATHER FILE- BALTIMORE, MD

| EQUIPMENT | NUMBER | | NUMBER | | NUMBER | | NUMBER | | NUMBER | |
|-----------|----------|-------|----------|-------|----------|-------|----------|-------|----------|-------|
| | SIZE | INSTD | SIZE | INSTD | SIZE | INSTD | SIZE | INSTD | SIZE | INSTD |
| | (MBTU/H) | AVAIL | (MBTU/H) | AVAIL | (MBTU/H) | AVAIL | (MBTU/H) | AVAIL | (MBTU/H) | AVAIL |
| HW-BOILER | 0.000 | 1 | 1 | | | | | | | |

| S I T E E N E R G Y | | | | | | | | | | | | | SOURCE |
|-----------------------|-----------------------|--------------------------|-------------------------|------------------|-----------------------------|--------------------------|--------------------------|--------------------------|--------------------------|------------------------|------------------------|-------------------------|---------------------------|
| | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| MONTH | TOTAL HEAT LOAD | TOTAL COOLING LOAD | TOTAL ELECTR LOAD | RCVRED ENERGY | WASTED RCVRABL ENERGY | FUEL INPUT COOLING | ELEC INPUT COOLING | FUEL INPUT HEATING | ELEC INPUT HEATING | FUEL INPUT ELECT | TOTAL FUEL INPUT | TOTAL SITE ENERGY | TOTAL SOURCE ENERGY |
| JAN | 0.0 | 0.0 | 343.2 100.5E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 0.0 | 0.0 0.0E | 0.0 | 367.6 | 710.8 | 1398.2 |
| FEB | 0.0 | 0.0 | 304.4 89.1E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 0.0 | 0.0 0.0E | 0.0 | 312.6 | 617.0 | 1226.7 |
| MAR | 0.0 | 0.0 | 349.5 102.4E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 0.0 | 0.0 0.0E | 0.0 | 197.0 | 546.5 | 1246.7 |
| APR | 0.0 | 0.0 | 342.1 100.2E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 0.0 | 0.0 0.0E | 0.0 | 79.6 | 421.8 | 1107.1 |
| MAY | 0.0 | 0.0 | 410.3 120.2E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 0.0 | 0.0 0.0E | 0.0 | 60.8 | 471.1 | 1292.9 |
| JUN | 0.0 | 0.0 | 474.1 138.9E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 0.0 | 0.0 0.0E | 0.0 | 18.1 | 492.2 | 1442.0 |
| JUL | 0.0 | 0.0 | 484.6 141.9E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 0.0 | 0.0 0.0E | 0.0 | 14.5 | 499.1 | 1469.3 |
| AUG | 0.0 | 0.0 | 504.2 147.7E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 0.0 | 0.0 0.0E | 0.0 | 18.3 | 522.5 | 1532.5 |
| SEP | 0.0 | 0.0 | 434.3 127.2E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 0.0 | 0.0 0.0E | 0.0 | 27.3 | 461.7 | 1331.6 |
| OCT | 0.0 | 0.0 | 379.4 111.1E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 0.0 | 0.0 0.0E | 0.0 | 75.1 | 454.5 | 1214.5 |
| NOV | 0.0 | 0.0 | 321.9 94.3E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 0.0 | 0.0 0.0E | 0.0 | 152.5 | 474.4 | 1119.2 |
| DEC | 0.0 | 0.0 | 342.4 100.3E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 0.0 | 0.0 0.0E | 0.0 | 311.4 | 653.8 | 1339.6 |
| ===== | 0.0 | 0.0 | 4690.5 1373.7E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 0.0 | 0.0 0.0E | 0.0 | 1634.8 | 6325.4 | 15720.6 |

NOTE-- ALL ENTRIES ARE IN MBTU EXCEPT
 ENTRIES FOLLOWED BY E ARE IN MWH (THOUSANDS OF KWH)

| MO | UTILITY- | ELECTRICITY | FUEL-OIL | NATURAL-GAS |
|-----|--------------|-------------|----------|-------------|
| | TOTAL (MBTU) | 343.195 | 0.000 | 367.560 |
| JAN | PEAK (KBTU) | 929.193 | 0.000 | 3430.472 |
| | DY/HR | 14/19 | 31/24 | 31/ 7 |
| | TOTAL (MBTU) | 304.392 | 0.000 | 312.646 |
| FEB | PEAK (KBTU) | 922.058 | 0.000 | 3252.151 |
| | DY/HR | 2/19 | 28/24 | 14/ 7 |
| | TOTAL (MBTU) | 349.545 | 0.000 | 196.974 |
| MAR | PEAK (KBTU) | 916.034 | 0.000 | 2941.520 |
| | DY/HR | 18/15 | 31/24 | 7/ 7 |
| | TOTAL (MBTU) | 342.139 | 0.000 | 79.620 |
| APR | PEAK (KBTU) | 1036.890 | 0.000 | 1765.213 |
| | DY/HR | 19/19 | 30/ 1 | 9/ 7 |
| | TOTAL (MBTU) | 410.287 | 0.000 | 50.326 |
| MAY | PEAK (KBTU) | 1349.570 | 0.000 | 1096.534 |
| | DY/HR | 21/18 | 31/ 1 | 10/ 5 |
| | TOTAL (MBTU) | 474.145 | 0.000 | 18.097 |
| JUN | PEAK (KBTU) | 1572.944 | 0.000 | 232.568 |
| | DY/HR | 27/17 | 30/ 1 | 2/ 5 |
| | TOTAL (MBTU) | 484.605 | 0.000 | 14.528 |
| JUL | PEAK (KBTU) | 1619.108 | 0.000 | 56.216 |
| | DY/HR | 25/17 | 31/ 1 | 21/ 7 |
| | TOTAL (MBTU) | 504.222 | 0.000 | 18.276 |
| AUG | PEAK (KBTU) | 1597.791 | 0.000 | 291.764 |
| | DY/HR | 18/17 | 31/ 1 | 21/ 7 |
| | TOTAL (MBTU) | 434.318 | 0.000 | 27.348 |
| SEP | PEAK (KBTU) | 1495.148 | 0.000 | 383.393 |
| | DY/HR | 1/17 | 30/ 1 | 21/ 6 |
| | TOTAL (MBTU) | 379.436 | 0.000 | 75.058 |
| OCT | PEAK (KBTU) | 1251.967 | 0.000 | 1463.531 |
| | DY/HR | 13/17 | 31/24 | 24/ 7 |
| | TOTAL (MBTU) | 321.900 | 0.000 | 152.495 |
| NOV | PEAK (KBTU) | 1087.008 | 0.000 | 2811.089 |
| | DY/HR | 2/19 | 30/24 | 25/ 7 |
| | TOTAL (MBTU) | 342.381 | 0.000 | 311.410 |
| DEC | PEAK (KBTU) | 927.395 | 0.000 | 2868.668 |
| | DY/HR | 22/19 | 31/24 | 12/ 7 |
| | ONE YEAR | 4690.565 | 0.000 | 1634.338 |
| | USE/PEAK | 1619.108 | 0.000 | 3430.472 |

ENTECH ENGINEERING
READING, PA 19603
REPORT- PS-D PLANT LOADS SATISFIED

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
FT. GEORGE G. MEADE

DOE-2.1D 6/12/1996 9:56:3 PDL RUN 1
BUILDING 2790 - NEW
WEATHER FILE- BALTIMORE, MD

| ELECTRICAL LOADS | MBTU SUPPLIED | PCT OF TOTAL LOAD |
|---------------------|---------------|-------------------|
| ELECTRICITY | 4690.6 | 100.0 |
| LOAD SATISFIED | 4690.6 | 100.0 |
| TOTAL LOAD ON PLANT | 4690.5 | |

SUMMARY OF LOADS MET

| TYPE OF LOAD | TOTAL LOAD (MBTU) | LOAD SATISFIED (MBTU) | TOTAL OVERLOAD (MBTU) | PEAK OVERLOAD (MBTU) | HOURS OVERLOADED |
|------------------|-------------------------|-----------------------------|-----------------------------|----------------------------|---------------------|
| ELECTRICAL LOADS | 4690.5 | 4690.6 | 0.000 | 0.000 | 0 |

ENTECH ENGINEERING
READING, PA 19603
REPORT- PS-H EQUIPMENT USE STATISTICS

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
FT. GEORGE G. MEADE

DOE-2.1D 6/12/1996 9:56: 3 PDL RUN 1
BUILDING 2790 - NEW
WEATHER FILE- BALTIMORE, MD

| EQUIPMENT | AVG | MAX | MON | | | SIZE OPER | | SIZE OPER | | SIZE OPER | | SIZE OPER | |
|-----------|---------------|----------------|-----|----|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--|
| | OPER RATIO | LOAD (MBTU) | DAY | HR | (MBTU) | HRS | (MBTU) | HRS | (MBTU) | HRS | (MBTU) | HRS | |
| HW-BOILER | 0.000 | 0.000 | 0 | 0 | 0 | 0.000 | 0 | | | | | | |

E Q U I P M E N T T O T A L S

| | | | | |
|-----------------|---------------------|-----|-------|--|
| HW-BOILER | | 0.1 | | |
| | NOMINAL SIZE (MBTU) | | 0.000 | |
| | NUMBER INSTALLED | | 1 | |
| | FIRST COST (KS) | 0.0 | 0.0 | |
| | ANNUAL COST (KS) | 0.1 | 0.1 | |
| | CYCLICAL COST (KS) | 0.0 | 0.0 | |
| | -----TOTAL----(KS) | | 0.1 | |
| <hr/> | | | | |
| EQUIPMENT TOTAL | | 0.1 | | |

| ENERGY TYPE IN SITE MBTU - | ELECTRICITY | FUEL-OIL | NATURAL-GAS |
|-------------------------------|-------------|----------|-------------|
| CATEGORY OF USE | | | |
| SPACE HEAT | 0.00 | 0.00 | 1634.84 |
| SPACE COOL | 733.96 | 0.00 | 0.00 |
| HVAC AUX | 781.96 | 0.00 | 0.00 |
| DOM HOT WTR | 0.00 | 0.00 | 0.00 |
| AUX SOLAR | 0.00 | 0.00 | 0.00 |
| LIGHTS | 2778.64 | 0.00 | 0.00 |
| VERT TRANS | 0.00 | 0.00 | 0.00 |
| MISC EQUIP | 396.18 | 0.00 | 0.00 |
| TOTAL | 4690.75 | 0.00 | 1634.84 |

TOTAL SITE ENERGY 6325.40 MBTU 80.7 KBTU/SQFT-YR GROSS-AREA 80.7 KBTU/SQFT-YR NET-AREA
 TOTAL SOURCE ENERGY 15720.62 MBTU 200.5 KBTU/SQFT-YR GROSS-AREA 200.5 KBTU/SQFT-YR NET-AREA

PERCENT OF HOURS ANY SYSTEM ZONE OUTSIDE OF THROTTLING RANGE = 0.3
 PERCENT OF HOURS ANY PLANT LOAD NOT SATISFIED = 0.0

NOTE ELECTRICITY AND/OR FUEL USED TO GENERATE ELECTRICITY IS APPORTIONED BASED
 ON THE YEARLY DEMAND. ALL OTHER ENERGY TYPES ARE APPORTIONED HOURLY.

FT. MEADE, MARYLAND

Building: 2793

Square feet 26,246

| Exterior Wall | |
|------------------------|--------------|
| Components | R-Value |
| Outside Surface | 0.17 |
| Brick | 0.44 |
| Air Space | 1.10 |
| Plywood | 0.93 |
| 3 1/2" Batt Insulation | 11.00 |
| Drywall | 0.56 |
| Inside Surface | 0.68 |
| | |
| Total R-Value | 14.88 |
| Total U-Value | 0.07 |

| Exterior Roof | |
|--------------------|--------------|
| Components | R-Value |
| Outside Surface | 0.17 |
| Shingles | 0.44 |
| Plywood | 0.93 |
| Air Space | 1.10 |
| 6" Batt Insulation | 19.00 |
| Gyp Board | 0.56 |
| Inside Surface | 0.61 |
| | |
| Total R-Value | 22.81 |
| Total U-Value | 0.04 |

| Calculated Total Area | |
|------------------------------|-------|
| No. of Floors | 2 |
| Avg. Floor to Floor Height | 9 |
| No. of Basement Levels | |
| Gross Floor Area | 26246 |
| Roof Area | 12375 |
| Estimated Infiltration (cfm) | 500 |
| Gross Wall Area | 10080 |
| Door Area | 63 |
| Gross Window Area | 744 |
| Other | |
| Net Wall Area | 9273 |

| Window and Door | |
|-----------------------------|---------|
| | U-Value |
| Window Single Pane W/Storm | |
| Window Single Pane Wo/Storm | |
| Window Double Pane | 0.55 |
| Skylight | |
| Glass Block | |
| Other | |
| Door Type 1 | 0.60 |
| Door Type 2 | |
| Door Type 3 | |

**FT. MEADE, MARYLAND
EQUIPMENT SCHEDULE**

BUILDING NO. 2793

Page 1 of 1

| EQUIPMENT | SYSTEM NUMBER | | | | | | | |
|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|---|---|---|---|---|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| Equipment Name | PTAC | | | | | | | |
| COOLING: | | | | | | | | |
| Type of Cooling | | | | | | | | |
| Air Side | Each Room | | | | | | | |
| Location in Building | | | | | | | | |
| Area Sq. Feet | | | | | | | | |
| Supply CFM | | | | | | | | |
| Supply Fan HP | | | | | | | | |
| O.A. CFM or % | | | | | | | | |
| Return CFM | | | | | | | | |
| Return Fan HP | | | | | | | | |
| Chiller Tonnage | 0.6 | | | | | | | |
| Tower or Condenser Fan HP | | | | | | | | |
| Condenser Pump HP | | | | | | | | |
| Chilled Water Pump HP | | | | | | | | |
| HEATING: | | | | | | | | |
| Type of Heating | | | | | | | | |
| Source | | | | | | | | |
| MBTUH | 6300 | | | | | | | |
| Hot Water Pump HP | | | | | | | | |
| Condensate Pump HP | | | | | | | | |
| ADDITIONAL: | | | | | | | | |
| Aux. HP Cooling | | | | | | | | |
| Aux. HP Heating | | | | | | | | |
| Operating Schedule Hrs./Week | | | | | | | | |
| Type of Cooling | (4) Water Cooled Chiller (5) Central Plant Supplied (6) Other | | | | | | | |
| Type of Heating | (1) Boiler Hot Water (2) Boiler Steam (3) Steam to Hot Water Converter (4) Furnace | | | | | | | |
| Air Side | (1) Natural Gas (2) Central Plant Steam (3) Central Plant Hot Water (4) VAV w/ Reheat (5) Constant Volume Reheat (6) Heating and Ventilating | | | | | | | |
| (1) Single Zone | | | | | | | | |
| (2) Multi-Zone | | | | | | | | |
| (3) VAV | | | | | | | | |

FT. MEADE, MARYLAND

Building: 2812

Square feet 4,720

| Exterior Wall | |
|-----------------|-------------|
| Components | R-Value |
| Outside Surface | 0.17 |
| Wood Siding | 0.93 |
| Air Space | 1.10 |
| Gyp. Board | 0.56 |
| Inside Surface | 0.68 |
| | |
| | |
| | |
| Total R-Value | 3.44 |
| Total U-Value | 0.29 |

| Exterior Roof | |
|-----------------|-------------|
| Components | R-Value |
| Outside Surface | 0.17 |
| Shingles | 0.44 |
| Wood Deck | 0.93 |
| Air Space | 1.10 |
| Gyp. Board | 0.56 |
| Inside Surface | 0.61 |
| | |
| | |
| Total R-Value | 3.81 |
| Total U-Value | 0.26 |

| Calculated Total Area | |
|------------------------------|------|
| No. of Floors | 2 |
| Avg. Floor to Floor Height | 9 |
| No. of Basement Levels | |
| Gross Floor Area | 4720 |
| Roof Area | 2400 |
| Estimated Infiltration (cfm) | 630 |
| Gross Wall Area | 3960 |
| Door Area | 40 |
| Gross Window Area | 470 |
| Other | |
| Net Wall Area | 3450 |

| Window and Door | |
|-----------------------------|---------|
| | U-Value |
| Window Single Pane W/Storm | 0.60 |
| Window Single Pane Wo/Storm | |
| Window Double Pane | |
| Skylight | |
| Glass Block | |
| Other | |
| Door Type 1 | 0.50 |
| Door Type 2 | |
| Door Type 3 | |

$$UoAo = (3450 \times 0.29) + (2400 \times 0.26) + (40 \times 0.5) + (470 \times 0.6) = 1931.5$$

EMCS Annual Energy Savings Summary Report

```

=====
Base: FTMEADE
Building: 2812
Case: 1
Description: ADMINISTRATIVE
-----
Fuel Type: Natural gas (methane)
Heating Value: 1,031 Btu/cf
=====
    
```

Caution

```

=====
The ESA program makes no attempt to exclude incompatible strategies.
It is the user's responsibility to select all appropriate strategies.
=====
    
```

Annual Energy Savings Table for Direct Fired Furnace

```

=====
Description: GAS FIRED FURNACE
=====
Strategy                MBtu/yr      kWh/yr      kW   mh/yr
=====
Day/Night Setback       58.533        0           0.0   0
Run Time Recording       0.000         0           0.0   2
Safety Alarm             0.000         0           0.0   2
-----
Subtotals                58.533        0           0.0   4
Heating Value /         1,031 Btu/cf
-----
Totals                   56,773        0           0.0   4
                        cf/yr           kWh/yr      kW   mh/yr
=====
    
```

Annual Energy Savings Table for Air Cooled DX Compressor

```

=====
Description: AIR CONDITIONERS
=====
Strategy                MBtu/yr      kWh/yr      kW   mh/yr
=====
Scheduled Start/Stop     0.000        294         0.0   0
Run Time Recording       0.000         0           0.0   2
Safety Alarm             0.000         0           0.0   2
-----
Totals                   0.000        294         0.0   4
                        MBtu/yr      kWh/yr      kW   mh/yr
=====
    
```

Annual Energy Savings Table for Lighting Control

| Description: LIGHTING | | | | |
|-----------------------|---------|--------|-----|-------|
| Strategy | MBtu/yr | kWh/yr | kW | mh/yr |
| Lighting Control | 0.000 | 11,232 | 0.0 | 0 |
| Totals | 0.000 | 11,232 | 0.0 | 0 |
| | MBtu/yr | kWh/yr | kW | mh/yr |

EMCS Annual Energy Savings for Building 2812

| Description | Value | Units |
|-----------------------------|--------|--------|
| Natural gas (methane) | 56,773 | cf/yr |
| Electrical Energy | 11,526 | kWh/yr |
| Electrical Demand Reduction | 0.0 | kW |
| Labor Savings | 8 | mh/yr |

FT. MEADE, MARYLAND

Building: 3000

Square feet 10,863

| Exterior Wall | |
|-----------------|-------------|
| Components | R-Value |
| Outside Surface | 0.17 |
| Vinyl Siding | 0.50 |
| 1/2" Insulation | 2.00 |
| Wood Siding | 0.79 |
| Air Space | 1.10 |
| Gyp Board | 0.56 |
| Inside Surface | 0.68 |
| | |
| Total R-Value | 5.80 |
| Total U-Value | 0.17 |

| Exterior Roof | |
|--------------------|--------------|
| Components | R-Value |
| Outside Surface | 0.17 |
| Shingles | 0.44 |
| Wood Deck | 0.93 |
| 6" Batt Insulation | 19.00 |
| Air Space | 1.10 |
| Gyp Board | 0.56 |
| Inside Surface | 0.61 |
| | |
| Total R-Value | 22.81 |
| Total U-Value | 0.04 |

| Calculated Total Area | |
|------------------------------|-------|
| No. of Floors | 1 |
| Avg. Floor to Floor Height | 25 |
| No. of Basement Levels | 1 |
| Gross Floor Area | 10863 |
| Roof Area | 10863 |
| Estimated Infiltration (cfm) | 4500 |
| Gross Wall Area | 12500 |
| Door Area | 250 |
| Gross Window Area | 400 |
| Other | |
| Net Wall Area | 11850 |

| Window and Door | |
|-----------------------------|---------|
| | U-Value |
| Window Single Pane W/Storm | 1.00 |
| Window Single Pane Wo/Storm | |
| Window Double Pane | |
| Skylight | |
| Glass Block | |
| Other | |
| Door Type 1 | 1.00 |
| Door Type 2 | |
| Door Type 3 | |

$$UoAo = (11850 \times 0.17) + (10863 \times 0.04) + (250 \times 1.0) + (400 \times 1.0) = 3097$$

**FT. MEADE, MARYLAND
EQUIPMENT SCHEDULE**

BUILDING NO. 3000

Page 1 of 1

| EQUIPMENT | SYSTEM NUMBER | | | | | | | |
|------------------------------|----------------------------------|-----------|---|---|---|---|---|---|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| Equipment Name | AHU-1 | Boiler | | | | | | |
| COOLING: | | | | | | | | |
| Type of Cooling | 1 | | | | | | | |
| Air Side | 1 | | | | | | | |
| Location in Building | | | | | | | | |
| Area Sq. Feet | 10863 | | | | | | | |
| Supply CFM | 20000 | | | | | | | |
| Supply Fan HP | 5 | | | | | | | |
| O.A. CFM or % | 20% | | | | | | | |
| Return CFM | | | | | | | | |
| Return Fan HP | | | | | | | | |
| Chiller Tonnage | 70 | | | | | | | |
| Tower or Condenser Fan HP | | | | | | | | |
| Condenser Pump HP | | | | | | | | |
| Chilled Water Pump HP | | | | | | | | |
| HEATING: | | | | | | | | |
| Type of Heating | | 2 | | | | | | |
| Source | | 1 | | | | | | |
| MBTUH | | 3313/2650 | | | | | | |
| Hot Water Pump HP | | | | | | | | |
| Condensate Pump HP | | 1/3 | | | | | | |
| ADDITIONAL: | | | | | | | | |
| Aux. HP Cooling | | | | | | | | |
| Aux. HP Heating | | | | | | | | |
| Operating Schedule Hrs./Week | | | | | | | | |
| Type of Cooling | Type of Heating | | | | | | | |
| (1) Air Cooled DX | (1) Boiler Hot Water | | | | | | | |
| (2) Water Cooled DX | (2) Boiler Steam | | | | | | | |
| (3) Air Cooled Chiller | (3) Steam to Hot Water Converter | | | | | | | |
| Air Side | Heating Source | | | | | | | |
| (1) Single Zone | (1) Natural Gas | | | | | | | |
| (2) Multi-Zone | (2) Central Plant Steam | | | | | | | |
| (3) VAV | (3) Central Plant Hot Water | | | | | | | |
| | (4) Furnace | | | | | | | |
| | (4) Oil | | | | | | | |
| | (5) Electric | | | | | | | |

EMCS Annual Energy Savings Summary Report

```

=====
Base: FTMEADE
Building: 3000
Case: 1
Description: DPW OPERATIONS
=====

```

```

-----
Fuel Type: Natural gas (methane)
Heating Value: 1,031 Btu/cf
=====

```

Caution

```

=====
The ESA program makes no attempt to exclude incompatible strategies.
It is the user's responsibility to select all appropriate strategies.
=====

```

Annual Energy Savings Table for Single Zone AHU

```

=====
Description: AHU-1
=====

```

| Strategy | MBtu/yr | kWh/yr | kW | mh/yr |
|--------------------|-------------------|-----------------|-----------|------------|
| Demand Limiting | 0.000 | 0 | 0.7 | 0 |
| Day/Night Setback | 413.221 | 1,317 | 0.0 | 0 |
| Vent/Recirculation | 63.685 | 0 | 0.0 | 0 |
| Run Time Recording | 0.000 | 0 | 0.0 | 2 |
| Safety Alarm | 0.000 | 0 | 0.0 | 2 |
| Subtotals | 476.906 | 1,317 | 0.7 | 4 |
| Heating Value / | 1,031 Btu/cf | | | |
| Totals | 462,567 cf /yr | 1,317 kWh/yr | 0.7 kW | 4 mh/yr |

Annual Energy Savings Table for Air Cooled DX Compressor

| Description: DX AIR COOLED CHILLER | | | | |
|------------------------------------|---------|--------|-----|-------|
| Strategy | MBtu/yr | kWh/yr | kW | mh/yr |
| Scheduled Start/Stop | 0.000 | 4,415 | 0.0 | 0 |
| Demand Limiting | 0.000 | 0 | 0.7 | 0 |
| Run Time Recording | 0.000 | 0 | 0.0 | 2 |
| Safety Alarm | 0.000 | 0 | 0.0 | 2 |
| Totals | 0.000 | 4,415 | 0.7 | 4 |
| | MBtu/yr | kWh/yr | kW | mh/yr |

EMCS Annual Energy Savings for Building 3000

| Description | Value | Units |
|-----------------------------|---------|--------|
| Natural gas (methane) | 462,567 | cf /yr |
| Electrical Energy | 5,732 | kWh/yr |
| Electrical Demand Reduction | 1.5 | kW |
| Labor Savings | 8 | mh/yr |

ATTACHMENT SECTION 8.2C

BUILDINGS 4215 TO 4471

FT. MEADE, MARYLAND

Building: 4215

Square feet 74,059

| Exterior Wall | |
|-----------------|-------------|
| Components | R-Value |
| Outside Surface | 0.17 |
| Face Brick | 0.44 |
| Concrete Block | 1.72 |
| Air Space | 1.10 |
| Plaster | 0.56 |
| Inside Surface | 0.68 |
| | |
| | |
| Total R-Value | 4.67 |
| Total U-Value | 0.21 |

| Exterior Roof | |
|--------------------|--------------|
| Components | R-Value |
| Outside Surface | 0.17 |
| Shingles | 0.44 |
| Wood Deck | 0.93 |
| 3" Batt Insulation | 11.00 |
| Air Space | 1.10 |
| Plaster | 0.56 |
| Inside Surface | 0.61 |
| | |
| Total R-Value | 14.81 |
| Total U-Value | 0.07 |

| Calculated Total Area | |
|------------------------------|-------|
| No. of Floors | 3 |
| Avg. Floor to Floor Height | 14 |
| No. of Basement Levels | 1 |
| Gross Floor Area | 74059 |
| Roof Area | 18770 |
| Estimated Infiltration (cfm) | 11900 |
| Gross Wall Area | 40220 |
| Door Area | 250 |
| Gross Window Area | 2950 |
| Other | |
| Net Wall Area | 37020 |

| Window and Door | |
|-----------------------------|---------|
| | U-Value |
| Window Single Pane W/Storm | 0.60 |
| Window Single Pane Wo/Storm | |
| Window Double Pane | |
| Skylight | |
| Glass Block | |
| Other | |
| Door Type 1 | 0.50 |
| Door Type 2 | |
| Door Type 3 | |

$$U_oA_o = (37020 * 0.21) + (18770 * 0.07) + (2950 * 0.6) + (250 * 0.5) = 10983$$



**FT. MEADE, MARYLAND
EQUIPMENT SCHEDULE**

BUILDING NO. 4215

Page 1 of 1

| EQUIPMENT | SYSTEM NUMBER | | | | | | | |
|------------------------------|----------------------------------|--------|---------|-----------|---|---|---|---|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| Equipment Name | Boiler | Boiler | Chiller | Fan Coils | | | | |
| COOLING: | | | | | | | | |
| Type of Cooling | | | 3 | | | | | |
| Air Side | | | | | | | | |
| Location in Building | | | | | | | | |
| Area Sq. Feet | | | | | | | | |
| Supply CFM | | | | | | | | |
| Supply Fan HP | | | | 60 | | | | |
| O.A. CFM or % | | | | | | | | |
| Return CFM | | | | | | | | |
| Return Fan HP | | | | | | | | |
| Chiller Tonnage | | | 125 | | | | | |
| Tower or Condenser Fan HP | | | | | | | | |
| Condenser Pump HP | | | | | | | | |
| Chilled Water Pump HP | | | 7 1/2 | | | | | |
| HEATING: | | | | | | | | |
| Type of Heating | 1 | 1 | | | | | | |
| Source | 1 | 1 | | | | | | |
| MBTUH | 2052 | 2052 | | | | | | |
| Hot Water Pump HP | 7 1/2 | | | | | | | |
| Condensate Pump HP | | | | | | | | |
| ADDITIONAL: | | | | | | | | |
| Aux. HP Cooling | | | | | | | | |
| Aux. HP Heating | | | | | | | | |
| Operating Schedule Hrs./Week | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| Type of Cooling | Type of Heating | | | | | | | |
| (1) Air Cooled DX | (1) Boiler Hot Water | | | | | | | |
| (2) Water Cooled DX | (2) Boiler Steam | | | | | | | |
| (3) Air Cooled Chiller | (3) Steam to Hot Water Converter | | | | | | | |
| | Heating Source | | | | | | | |
| (1) Single Zone | (1) Natural Gas | | | | | | | |
| (2) Multi-Zone | (2) Central Plant Steam | | | | | | | |
| (3) VAV | (3) Central Plant Hot Water | | | | | | | |
| | (4) Furnace | | | | | | | |
| | (4) Oil | | | | | | | |
| | (5) Electric | | | | | | | |

EMCS Annual Energy Savings Summary Report

```

=====
Base: FTMEADE
Building: 4215
Case: 1
Description:
=====

```

```

=====
Fuel Type: Natural gas (methane)
Heating Value: 1,031 Btu/cf
=====

```

Caution

```

=====
The ESA program makes no attempt to exclude incompatible strategies.
It is the user's responsibility to select all appropriate strategies.
=====

```

Annual Energy Savings Table for Two Pipe Fan Coil Unit

```

=====
Description: Fan Coil Units
=====

```

| Strategy | MBtu/yr | kWh/yr | kW | mh/yr |
|--------------------|---------------------|-----------------|-----------|------------|
| Day/Night Setback | 1,220.897 | 2,645 | 0.0 | 0 |
| Run Time Recording | 0.000 | 0 | 0.0 | 2 |
| Safety Alarm | 0.000 | 0 | 0.0 | 2 |
| Subtotals | 1,220.897 | 2,645 | 0.0 | 4 |
| Heating Value / | 1,031 Btu/cf | | | |
| Totals | 1,184,187 cf /yr | 2,645 kWh/yr | 0.0 kW | 4 mh/yr |

```

=====

```

Annual Energy Savings Table for Hot Water Boiler

Description: B-1

| Strategy | MBtu/yr | kWh/yr | kW | mh/yr |
|--------------------|-------------------|-------------|-----------|------------|
| Hot Water OA Reset | 351.771 | 0 | 0.0 | 0 |
| Run Time Recording | 0.000 | 0 | 0.0 | 2 |
| Safety Alarm | 0.000 | 0 | 0.0 | 2 |
| Subtotals | 351.771 | 0 | 0.0 | 4 |
| Heating Value / | 1,031 Btu/cf | | | |
| Totals | 341,194 cf /yr | 0 kWh/yr | 0.0 kW | 4 mh/yr |

Annual Energy Savings Table for Air Cooled Chiller

Description: C-1

| Strategy | MBtu/yr | kWh/yr | kW | mh/yr |
|----------------------|------------------|-----------------|-----------|------------|
| Scheduled Start/Stop | 0.000 | 2,943 | 0.0 | 0 |
| Chiller Water Reset | 0.000 | 5,220 | 0.0 | 0 |
| Run Time Recording | 0.000 | 0 | 0.0 | 2 |
| Safety Alarm | 0.000 | 0 | 0.0 | 2 |
| Totals | 0.000 MBtu/yr | 8,163 kWh/yr | 0.0 kW | 4 mh/yr |

Annual Energy Savings Table for Lighting Control

Description: LIGHTING

| Strategy | MBtu/yr | kWh/yr | kW | mh/yr |
|------------------|------------------|-------------------|-----------|------------|
| Lighting Control | 0.000 | 165,360 | 0.0 | 0 |
| Totals | 0.000 MBtu/yr | 165,360 kWh/yr | 0.0 kW | 0 mh/yr |

EMCS Annual Energy Savings for Building 4215

| Description | Value | Units |
|-----------------------------|-----------|--------|
| Natural gas (methane) | 1,525,381 | cf /yr |
| Electrical Energy | 176,168 | kWh/yr |
| Electrical Demand Reduction | 0.0 | kW |
| Labor Savings | 12 | mh/yr |

FT. MEADE, MARYLAND

Building: 4216

Square feet 37,244

| Exterior Wall | |
|-----------------|-------------|
| Components | R-Value |
| Outside Surface | 0.17 |
| Face Brick | 0.44 |
| Concrete Block | 1.72 |
| Air Space | 1.10 |
| Plaster | 0.56 |
| Inside Surface | 0.68 |
| | |
| | |
| Total R-Value | 4.67 |
| Total U-Value | 0.21 |

| Exterior Roof | |
|--------------------|--------------|
| Components | R-Value |
| Outside Surface | 0.17 |
| Shingles | 0.44 |
| Wood Deck | 0.93 |
| 3" Batt Insulation | 11.00 |
| Air Space | 1.10 |
| Plaster | 0.56 |
| Inside Surface | 0.61 |
| | |
| Total R-Value | 14.81 |
| Total U-Value | 0.07 |

| Calculated Total Area | |
|------------------------------|-------|
| No. of Floors | 3 |
| Avg. Floor to Floor Height | 14 |
| No. of Basement Levels | 1 |
| Gross Floor Area | 37244 |
| Roof Area | 9300 |
| Estimated Infiltration (cfm) | 4350 |
| Gross Wall Area | 18780 |
| Door Area | 170 |
| Gross Window Area | 900 |
| Other | |
| Net Wall Area | 17710 |

| Window and Door | |
|-----------------------------|---------|
| | U-Value |
| Window Single Pane W/Storm | 0.60 |
| Window Single Pane Wo/Storm | |
| Window Double Pane | |
| Skylight | |
| Glass Block | |
| Other | |
| Door Type 1 | 0.50 |
| Door Type 2 | |
| Door Type 3 | |

$$U_oA_o = (17710 * 0.21) + (9300*0.07) + (900*0.6) + (170*0.5) = 4995.1$$



EMCS Annual Energy Savings Summary Report

```

=====
Base: FTMEADE
Building: 4216
Case: 1
Description: Administration
=====

```

```

=====
Fuel Type: Natural gas (methane)
Heating Value: 1,031 Btu/cf
=====

```

Caution

```

=====
The ESA program makes no attempt to exclude incompatible strategies.
It is the user's responsibility to select all appropriate strategies.
=====

```

Annual Energy Savings Table for Two Pipe Fan Coil Unit

```

=====
Description: Fan Coil Units
=====

```

| Strategy | MBtu/yr | kWh/yr | kW | mh/yr |
|--------------------|-------------------|-----------------|-----------|------------|
| Day/Night Setback | 434.445 | 1,076 | 0.0 | 0 |
| Run Time Recording | 0.000 | 0 | 0.0 | 2 |
| Safety Alarm | 0.000 | 0 | 0.0 | 2 |
| Subtotals | 434.445 | 1,076 | 0.0 | 4 |
| Heating Value / | 1,031 Btu/cf | | | |
| Totals | 421,382 cf /yr | 1,076 kWh/yr | 0.0 kW | 4 mh/yr |

```

=====

```

Annual Energy Savings Table for Hot Water Boiler

| Description: B-1 | | | | |
|--------------------|-------------------|-------------|-----------|------------|
| Strategy | MBtu/yr | kWh/yr | kW | mh/yr |
| Hot Water OA Reset | 157.500 | 0 | 0.0 | 0 |
| Run Time Recording | 0.000 | 0 | 0.0 | 2 |
| Safety Alarm | 0.000 | 0 | 0.0 | 2 |
| Subtotals | 157.500 | 0 | 0.0 | 4 |
| Heating Value / | 1,031 Btu/cf | | | |
| Totals | 152,764 cf /yr | 0 kWh/yr | 0.0 kW | 4 mh/yr |

Annual Energy Savings Table for Air Cooled Chiller

| Description: C-1 | | | | |
|----------------------|------------------|-----------------|-----------|------------|
| Strategy | MBtu/yr | kWh/yr | kW | mh/yr |
| Scheduled Start/Stop | 0.000 | 589 | 0.0 | 0 |
| Chiller Water Reset | 0.000 | 2,506 | 0.0 | 0 |
| Run Time Recording | 0.000 | 0 | 0.0 | 2 |
| Safety Alarm | 0.000 | 0 | 0.0 | 2 |
| Totals | 0.000 MBtu/yr | 3,094 kWh/yr | 0.0 kW | 4 mh/yr |

Annual Energy Savings Table for Lighting Control

| Description: Lighting | | | | |
|-----------------------|------------------|------------------|-----------|------------|
| Strategy | MBtu/yr | kWh/yr | kW | mh/yr |
| Lighting Control | 0.000 | 78,000 | 0.0 | 0 |
| Totals | 0.000 MBtu/yr | 78,000 kWh/yr | 0.0 kW | 0 mh/yr |

EMCS Annual Energy Savings for Building 4216

| Description | Value | Units |
|-----------------------------|---------|--------|
| Natural gas (methane) | 574,146 | cf /yr |
| Electrical Energy | 82,170 | kWh/yr |
| Electrical Demand Reduction | 0.0 | kW |
| Labor Savings | 12 | mh/yr |

FT. MEADE, MARYLAND

Building: 4217

Square feet 34,548

| Exterior Wall | |
|-----------------|-------------|
| Components | R-Value |
| Outside Surface | 0.17 |
| Face Brick | 0.44 |
| Concrete Block | 1.72 |
| Air Space | 1.10 |
| Plaster | 0.56 |
| Inside Surface | 0.68 |
| | |
| Total R-Value | 4.67 |
| Total U-Value | 0.21 |

| Exterior Roof | |
|--------------------|--------------|
| Components | R-Value |
| Outside Surface | 0.17 |
| Shingles | 0.44 |
| Wood Deck | 0.93 |
| 3" Batt Insulation | 11.00 |
| Air Space | 1.10 |
| Plaster | 0.56 |
| Inside Surface | 0.61 |
| | |
| Total R-Value | 14.81 |
| Total U-Value | 0.07 |

| Calculated Total Area | |
|------------------------------|-------|
| No. of Floors | 3 |
| Avg. Floor to Floor Height | 14 |
| No. of Basement Levels | 1 |
| Gross Floor Area | 34548 |
| Roof Area | 8900 |
| Estimated Infiltration (cfm) | 4150 |
| Gross Wall Area | 12416 |
| Door Area | 100 |
| Gross Window Area | 1000 |
| Other | |
| Net Wall Area | 11316 |

| Window and Door | |
|-----------------------------|---------|
| | U-Value |
| Window Single Pane W/Storm | 0.60 |
| Window Single Pane Wo/Storm | |
| Window Double Pane | |
| Skylight | |
| Glass Block | |
| Other | |
| Door Type 1 | 0.50 |
| Door Type 2 | |
| Door Type 3 | |

$$U_oA_o = (11316 * 0.21) + (8900 * 0.07) + (1000 * 0.6) + (100 * 0.5) = 3649.4$$



**FT. MEADE, MARYLAND
EQUIPMENT SCHEDULE**

BUILDING NO. 4217

Page 1 of 1

| EQUIPMENT | SYSTEM NUMBER | | | | | | | |
|------------------------------|--------------------------------------------------------------------------------------------------------------------------------|--------------|---------------------|---|---|---|---|------------------------------------------------------------------------------------------------------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| Equipment Name | Boiler | Chiller 3 | Fan Coils 30 | | | | | |
| COOLING: | | | | | | | | |
| Type of Cooling | | | | | | | | |
| Air Side | | | | | | | | |
| Location in Building | | | | | | | | |
| Area Sq. Feet | | | | | | | | |
| Supply CFM | | | | | | | | |
| Supply Fan HP | | | | | | | | |
| O.A. CFM or % | | | | | | | | |
| Return CFM | | | | | | | | |
| Return Fan HP | | | | | | | | |
| Chiller Tonnage | | 50 | | | | | | |
| Tower or Condenser Fan HP | | | | | | | | |
| Condenser Pump HP | | | | | | | | |
| Chilled Water Pump HP | | | | | | | | |
| HEATING: | | | | | | | | |
| Type of Heating | 1 | | | | | | | |
| Source | 1 | | | | | | | |
| MBTUH | 2520/2052 | | | | | | | |
| Hot Water Pump HP | 5 | | | | | | | |
| Condensate Pump HP | | | | | | | | |
| ADDITIONAL: | | | | | | | | |
| Aux. HP Cooling | | | | | | | | |
| Aux. HP Heating | | | | | | | | |
| Operating Schedule Hrs./Week | | | | | | | | |
| Type of Cooling | (1) Air Cooled DX (4) Water Cooled Chiller (5) Central Plant Supplied (6) Other | | | | | | | |
| Type of Heating | (1) Boiler Hot Water (2) Boiler Steam (3) Steam to Hot Water Converter | | | | | | | (4) Furnace (5) Electric |
| Air Side | (1) Single Zone (2) Multi-Zone (3) VAV (4) VAV w/ Reheat (5) Constant Volume Reheat (6) Heating and Ventilating | | | | | | | (1) Natural Gas (2) Central Plant Steam (3) Central Plant Hot Water (4) Oil (5) Electric |

EMCS Annual Energy Savings Summary Report

```

=====
Base: FTMEADE
Building: 4217
Case: 1
Description:
=====

```

```

=====
Fuel Type: Natural gas (methane)
Heating Value: 1,031 Btu/cf
=====

```

Caution

```

=====
The ESA program makes no attempt to exclude incompatible strategies.
It is the user's responsibility to select all appropriate strategies.
=====

```

Annual Energy Savings Table for Two Pipe Fan Coil Unit

```

=====
Description: Fan Coil Units
=====

```

| Strategy | MBtu/yr | kWh/yr | kW | mh/yr |
|--------------------|-------------------|-----------------|-----------|------------|
| Day/Night Setback | 416.569 | 1,354 | 0.0 | 0 |
| Run Time Recording | 0.000 | 0 | 0.0 | 2 |
| Safety Alarm | 0.000 | 0 | 0.0 | 2 |
| Subtotals | 416.569 | 1,354 | 0.0 | 4 |
| Heating Value / | 1,031 Btu/cf | | | |
| Totals | 404,044 cf /yr | 1,354 kWh/yr | 0.0 kW | 4 mh/yr |

```

=====

```

Annual Energy Savings Table for Hot Water Boiler

| Description: B-1 | | | | | |
|--------------------|-------------------|-------------|-----------|------------|--|
| Strategy | MBtu/yr | kWh/yr | kW | mh/yr | |
| Hot Water OA Reset | 216.000 | 0 | 0.0 | 0 | |
| Run Time Recording | 0.000 | 0 | 0.0 | 2 | |
| Safety Alarm | 0.000 | 0 | 0.0 | 2 | |
| Subtotals | 216.000 | 0 | 0.0 | 4 | |
| Heating Value / | 1,031 Btu/cf | | | | |
| Totals | 209,505 cf /yr | 0 kWh/yr | 0.0 kW | 4 mh/yr | |

Annual Energy Savings Table for Air Cooled Chiller

| Description: CHILLER | | | | | |
|----------------------|------------------|-----------------|-----------|------------|--|
| Strategy | MBtu/yr | kWh/yr | kW | mh/yr | |
| Scheduled Start/Stop | 0.000 | 981 | 0.0 | 0 | |
| Chiller Water Reset | 0.000 | 2,088 | 0.0 | 0 | |
| Run Time Recording | 0.000 | 0 | 0.0 | 2 | |
| Safety Alarm | 0.000 | 0 | 0.0 | 2 | |
| Totals | 0.000 MBtu/yr | 3,069 kWh/yr | 0.0 kW | 4 mh/yr | |

Annual Energy Savings Table for Lighting Control

| Description: Lighting | | | | | |
|-----------------------|------------------|------------------|-----------|------------|--|
| Strategy | MBtu/yr | kWh/yr | kW | mh/yr | |
| Lighting Control | 0.000 | 73,840 | 0.0 | 0 | |
| Totals | 0.000 MBtu/yr | 73,840 kWh/yr | 0.0 kW | 0 mh/yr | |

EMCS Annual Energy Savings for Building 4217

| Description | Value | Units |
|-----------------------------|---------|--------|
| Natural gas (methane) | 613,549 | cf /yr |
| Electrical Energy | 78,263 | kWh/yr |
| Electrical Demand Reduction | 0.0 | kW |
| Labor Savings | 12 | mh/yr |

FT. MEADE, MARYLAND

Building: 4411

Square feet 39,379

| Exterior Wall | |
|-----------------|-------------|
| Components | R-Value |
| Outside Surface | 0.17 |
| Brick | 0.44 |
| Air Space | 1.10 |
| Concrete Block | 1.72 |
| Plaster | 0.56 |
| Inside Surface | 0.68 |
| | |
| | |
| Total R-Value | 4.67 |
| Total U-Value | 0.21 |

| Exterior Roof | |
|---------------------|-------------|
| Components | R-Value |
| Outside Surface | 0.17 |
| Slate Roof | 0.00 |
| 1" Insulation | 4.00 |
| Air Space | 1.10 |
| Acoustical Tile Clg | 1.89 |
| Inside Surface | 0.61 |
| | |
| | |
| Total R-Value | 7.77 |
| Total U-Value | 0.13 |

| Calculated Total Area | |
|------------------------------|-------|
| No. of Floors | 3 |
| Avg. Floor to Floor Height | 12 |
| No. of Basement Levels | 1 |
| Gross Floor Area | 39379 |
| Roof Area | 10030 |
| Estimated Infiltration (cfm) | 5000 |
| Gross Wall Area | 34400 |
| Door Area | 155 |
| Gross Window Area | 2565 |
| Other | |
| Net Wall Area | 31680 |

| Window and Door | |
|-----------------------------|---------|
| | U-Value |
| Window Single Pane W/Storm | |
| Window Single Pane Wo/Storm | 1.00 |
| Window Double Pane | |
| Skylight | |
| Glass Block | |
| Other | |
| Door Type 1 | 1.00 |
| Door Type 2 | |
| Door Type 3 | |

EMCS Annual Energy Savings Summary Report

```

=====
Base: FTMEADE
Building: 4411
Case: 1
Description: ADMINISTRATIVE
=====

```

```

=====
Fuel Type: Natural gas (methane)
Heating Value: 1,031 Btu/cf
=====

```

Caution

```

=====
The ESA program makes no attempt to exclude incompatible strategies.
It is the user's responsibility to select all appropriate strategies.
=====

```

Annual Energy Savings Table for Single Zone AHU

Description: AHU-1

```

=====
Strategy                MBtu/yr        kWh/yr        kW   mh/yr
=====
Demand Limiting         0.000          0             0.3   0
Run Time Recording      0.000          0             0.0   2
Safety Alarm            0.000          0             0.0   2
=====
Totals                  0.000          0             0.3   4
                    MBtu/yr        kWh/yr        kW   mh/yr
=====

```

Annual Energy Savings Table for Single Zone AHU

Description: AHU-2

```

=====
Strategy                MBtu/yr        kWh/yr        kW   mh/yr
=====
Demand Limiting         0.000          0             0.1   0
Run Time Recording      0.000          0             0.0   2
Safety Alarm            0.000          0             0.0   2
=====
Totals                  0.000          0             0.1   4
                    MBtu/yr        kWh/yr        kW   mh/yr
=====

```

Annual Energy Savings Table for Single Zone AHU

| Description: AHU-3 | | | | |
|--------------------|---------|--------|-----|-------|
| Strategy | MBtu/yr | kWh/yr | kW | mh/yr |
| Demand Limiting | 0.000 | 0 | 1.1 | 0 |
| Run Time Recording | 0.000 | 0 | 0.0 | 2 |
| Safety Alarm | 0.000 | 0 | 0.0 | 2 |
| Totals | 0.000 | 0 | 1.1 | 4 |
| | MBtu/yr | kWh/yr | kW | mh/yr |

Annual Energy Savings Table for Single Zone AHU

| Description: AHU-4 | | | | |
|--------------------|---------|--------|-----|-------|
| Strategy | MBtu/yr | kWh/yr | kW | mh/yr |
| Demand Limiting | 0.000 | 0 | 1.1 | 0 |
| Run Time Recording | 0.000 | 0 | 0.0 | 2 |
| Safety Alarm | 0.000 | 0 | 0.0 | 2 |
| Totals | 0.000 | 0 | 1.1 | 4 |
| | MBtu/yr | kWh/yr | kW | mh/yr |

Annual Energy Savings Table for Single Zone AHU

| Description: AHU-5 | | | | |
|--------------------|---------|--------|-----|-------|
| Strategy | MBtu/yr | kWh/yr | kW | mh/yr |
| Demand Limiting | 0.000 | 0 | 0.7 | 0 |
| Run Time Recording | 0.000 | 0 | 0.0 | 2 |
| Safety Alarm | 0.000 | 0 | 0.0 | 2 |
| Totals | 0.000 | 0 | 0.7 | 4 |
| | MBtu/yr | kWh/yr | kW | mh/yr |

Annual Energy Savings Table for Hot Water Boiler

| Description: BOILERS | | | | |
|----------------------|-------------------|-------------|-----------|------------|
| Strategy | MBtu/yr | kWh/yr | kW | mh/yr |
| Hot Water OA Reset | 160.000 | 0 | 0.0 | 0 |
| Run Time Recording | 0.000 | 0 | 0.0 | 2 |
| Safety Alarm | 0.000 | 0 | 0.0 | 2 |
| Subtotals | 160.000 | 0 | 0.0 | 4 |
| Heating Value / | 1,031 Btu/cf | | | |
| Totals | 155,189 cf /yr | 0 kWh/yr | 0.0 kW | 4 mh/yr |

Annual Energy Savings Table for Air Cooled Chiller

| Description: CHILLER | | | | |
|----------------------|------------------|-----------------|-----------|------------|
| Strategy | MBtu/yr | kWh/yr | kW | mh/yr |
| Scheduled Start/Stop | 0.000 | 1,962 | 0.0 | 0 |
| Chiller Water Reset | 0.000 | 5,157 | 0.0 | 0 |
| Run Time Recording | 0.000 | 0 | 0.0 | 2 |
| Safety Alarm | 0.000 | 0 | 0.0 | 2 |
| Totals | 0.000 MBtu/yr | 7,120 kWh/yr | 0.0 kW | 4 mh/yr |

Annual Energy Savings Table for Lighting Control

| Description: LIGHTING | | | | |
|-----------------------|------------------|------------------|-----------|------------|
| Strategy | MBtu/yr | kWh/yr | kW | mh/yr |
| Lighting Control | 0.000 | 76,128 | 0.0 | 0 |
| Totals | 0.000 MBtu/yr | 76,128 kWh/yr | 0.0 kW | 0 mh/yr |

EMCS Annual Energy Savings for Building 4411

| Description | Value | Units |
|-----------------------------|---------|--------|
| Natural gas (methane) | 155,189 | cf /yr |
| Electrical Energy | 83,248 | kWh/yr |
| Electrical Demand Reduction | 3.4 | kW |
| Labor Savings | 28 | mh/yr |

**UMCS FEASIBILITY STUDY
FORT MEADE
BUILDING 4411 - ADMINISTRATIVE
DOE ENERGY SAVINGS SUMMARY**

| | Space Heat | | Space Cool | | HVAC Aux | | Lights | | Misc Equip | | TOTAL | | TOTAL | |
|---------------------------------------------------|----------------------|----------------------|----------------------|-------|----------------------|-------|----------------------|---------|----------------------|---------|--------------------|--------------------|--------------------|--------------------|
| | Electricity mmBtu | Natural Gas mmBtu | Electricity mmBtu | mmBtu | Electricity mmBtu | mmBtu | Electricity mmBtu | mmBtu | Electricity mmBtu | mmBtu | Electricity Kwh | Natural Gas MCF | Electricity Kwh | Natural Gas MCF |
| Existing | 182.7 | 3,430.0 | 1,458.6 | 920.9 | 667.6 | 190.7 | 3,420.6 | 3,430.0 | 1,002,212 | 3,326.9 | | | | |
| New w/Night Setback | 80.2 | 1,610.6 | 842.4 | 397.1 | 667.6 | 190.7 | 2,178.1 | 1,610.6 | 638,169 | 1,562.1 | | | | |
| Night Setback Savings | | | | | | | | | | | | | | |
| New w/Night Setback and Vent/Recirc | 80.2 | 1,610.6 | 842.4 | 397.1 | 667.6 | 190.7 | 2,178.1 | 1,610.6 | 638,169 | 1,562.1 | | | | |
| Vent/Recirc Savings | | | | | | | | | | | | | | |
| New w/Night Setback & Vent/Recirc & Economizer | 59.0 | 1,142.8 | 787.3 | 373.3 | 667.6 | 190.7 | 2,077.8 | 1,142.8 | 608,799 | 1,108.4 | | | | |
| Economizer Savings | | | | | | | | | | | | | | |
| | | | | | | | 100.2 | 467.7 | 29,370 | 453.7 | | | | |

| | AHU-1 | AHU-1 | AHU-1 | AHU-1 | AHU-1 | AHU-2 | AHU-2 | AHU-2 |
|-----------------------|-------------------------------|-------------------------------|--------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|--------------------------|
| | TOT HTG COIL PWR BTU/HR | TOT CLG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR | TOT CLG COIL PWR BTU/HR | SUPPLY ELECTRIC KW |
| | ---- (5) | ---- (6) | ---- (49) | ---- (70) | ---- (78) | ---- (5) | ---- (6) | ---- (49) |
| MONTHLY SUMMARY (AUG) | | | | | | | | |
| MN | 0. | 0. | 6.295 | 209824. | 0. | 0. | 0. | 7.808 |
| MX | 0. | 276082. | 6.295 | 411727. | 0. | 0. | 361398. | 7.808 |
| SM | 0. | 66890928. | 4683.181 | 228097088. | 0. | 0. | 90853440. | 5809.003 |
| AV | 0. | 89907. | 6.295 | 306582. | 0. | 0. | 122115. | 7.808 |
| MONTHLY SUMMARY (SEP) | | | | | | | | |
| MN | 0. | 0. | 6.295 | 209824. | 0. | 0. | 0. | 7.808 |
| MX | 0. | 214755. | 6.295 | 421187. | 0. | 0. | 291863. | 7.808 |
| SM | 0. | 33329984. | 4532.111 | 191687312. | 0. | 0. | 48792640. | 5621.616 |
| AV | 0. | 46292. | 6.295 | 266232. | 0. | 0. | 67768. | 7.808 |
| MONTHLY SUMMARY (OCT) | | | | | | | | |
| MN | -210746. | 0. | 6.295 | 209824. | -387286. | -215602. | 0. | 7.808 |
| MX | 0. | 104493. | 6.295 | 338813. | 0. | 0. | 166164. | 7.808 |
| SM | -14723614. | 2595898. | 4683.181 | 164727824. | -148717856. | -14149644. | 7265280. | 5809.003 |
| AV | -19790. | 3489. | 6.295 | 221408. | -199890. | -19018. | 9765. | 7.808 |
| MONTHLY SUMMARY (NOV) | | | | | | | | |
| MN | -181160. | 0. | 6.295 | 209824. | -387286. | -204477. | 0. | 7.808 |
| MX | 0. | 0. | 6.295 | 522671. | -387286. | 0. | 0. | 7.808 |
| SM | -57807444. | 0. | 4532.111 | 163123040. | -278845984. | -61087100. | 0. | 5621.616 |
| AV | -80288. | 0. | 6.295 | 226560. | -387286. | -84843. | 0. | 7.808 |
| MONTHLY SUMMARY (DEC) | | | | | | | | |
| MN | -268129. | 0. | 6.295 | 209824. | -387286. | -302979. | 0. | 7.808 |
| MX | -2747. | 0. | 6.295 | 224744. | -387286. | 0. | 0. | 7.808 |
| SM | -104483408. | 0. | 4683.181 | 156171888. | -288140864. | -115225216. | 0. | 5809.003 |
| AV | -140435. | 0. | 6.295 | 209908. | -387286. | -154873. | 0. | 7.808 |
| YEARLY SUMMARY | | | | | | | | |
| MN | -353132. | 0. | 6.295 | 209824. | -387286. | -377596. | 0. | 7.808 |
| MX | 0. | 287726. | 6.295 | 522671. | 0. | 0. | 370593. | 7.808 |
| SM | -499012736. | 237667648. | 55140.676 | 2125002880. | -1831088640. | -529710336. | 339235552. | 68396.336 |
| AV | -56965. | 27131. | 6.295 | 242580. | -209028. | -60469. | 38726. | 7.808 |

| MMDDHH | AHU-2 | AHU-2 | AHU-3 | AHU-3 | AHU-3 | AHU-3 | AHU-3 | AHU-3 | AHU-4 |
|-----------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|--------------------------|-------------------------------|-------------------------------|-------------------------------|-------|
| | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR | TOT CLG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR | |
| | ---- (70) | ---- (78) | ---- (5) | ---- (6) | ---- (49) | ---- (70) | ---- (78) | ---- (5) | |
| MONTHLY SUMMARY (JAN) | | | | | | | | | |
| MN | 258907. | -480388. | -404703. | 0. | 8.954 | 295777. | -550935. | -241389. | |
| MX | 258907. | -480388. | -8227. | 0. | 8.954 | 295777. | -550935. | -26209. | |
| SM | 192627056. | -357408768. | -154702912. | 0. | 6662.078 | 220058368. | -409895648. | -96421584. | |
| AV | 258907. | -480388. | -207934. | 0. | 8.954 | 295777. | -550935. | -129599. | |
| MONTHLY SUMMARY (FEB) | | | | | | | | | |
| MN | 258907. | -480388. | -431732. | 0. | 8.954 | 295777. | -550935. | -250292. | |
| MX | 274453. | -480388. | 0. | 0. | 8.954 | 313533. | -550935. | 0. | |
| SM | 174033952. | -322820832. | -124956880. | 0. | 6017.360 | 198817216. | -370228352. | -78644240. | |
| AV | 258979. | -480388. | -185948. | 0. | 8.954 | 295859. | -550935. | -117030. | |
| MONTHLY SUMMARY (MAR) | | | | | | | | | |
| MN | 258907. | -480388. | -330326. | 0. | 8.954 | 295777. | -550935. | -197323. | |
| MX | 328518. | -480388. | 0. | 0. | 8.954 | 375235. | -550935. | 0. | |
| SM | 193567120. | -357408768. | -84474464. | 0. | 6662.078 | 221169888. | -409895648. | -55833100. | |
| AV | 260171. | -480388. | -113541. | 0. | 8.954 | 297271. | -550935. | -75044. | |
| MONTHLY SUMMARY (APR) | | | | | | | | | |
| MN | 258907. | -480388. | -264198. | 0. | 8.954 | 295777. | -550935. | -159435. | |
| MX | 465270. | -480388. | 0. | 0. | 8.954 | 530872. | -550935. | 0. | |
| SM | 194205776. | -345879456. | -38335336. | 0. | 6447.172 | 221948672. | -396673216. | -27458628. | |
| AV | 269730. | -480388. | -53244. | 0. | 8.954 | 308262. | -550935. | -38137. | |
| MONTHLY SUMMARY (MAY) | | | | | | | | | |
| MN | 258907. | 0. | 0. | 0. | 8.954 | 295777. | 0. | 0. | |
| MX | 462013. | 0. | 0. | 218684. | 8.954 | 554224. | 0. | 0. | |
| SM | 215567536. | 0. | 0. | 21907426. | 6662.078 | 246400416. | 0. | 0. | |
| AV | 289741. | 0. | 0. | 29445. | 8.954 | 331183. | 0. | 0. | |
| MONTHLY SUMMARY (JUN) | | | | | | | | | |
| MN | 258907. | 0. | 0. | 0. | 8.954 | 295777. | 0. | 0. | |
| MX | 460458. | 0. | 0. | 394611. | 8.954 | 524936. | 0. | 0. | |
| SM | 249491536. | 0. | 0. | 79895952. | 6447.172 | 285177312. | 0. | 0. | |
| AV | 346516. | 0. | 0. | 110967. | 8.954 | 396080. | 0. | 0. | |
| MONTHLY SUMMARY (JUL) | | | | | | | | | |
| MN | 263716. | 0. | 0. | 0. | 8.954 | 298781. | 0. | 0. | |
| MX | 526733. | 0. | 0. | 421986. | 8.954 | 601665. | 0. | 0. | |
| SM | 285447264. | 0. | 0. | 114473720. | 6662.078 | 326053344. | 0. | 0. | |
| AV | 383666. | 0. | 0. | 153863. | 8.954 | 438244. | 0. | 0. | |

| | AHU-2 | AHU-2 | AHU-3 | AHU-3 | AHU-3 | AHU-3 | AHU-3 | AHU-4 |
|-----------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|--------------------------|-------------------------------|-------------------------------|-------------------------------|
| | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR | TOT CLG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR |
| | ---- (70) | ---- (78) | ---- (5) | ---- (6) | ---- (49) | ---- (70) | ---- (78) | ---- (5) |
| MONTHLY SUMMARY (AUG) | | | | | | | | |
| MN | 258907. | 0. | 0. | 0. | 8.954 | 295777. | 0. | 0. |
| MX | 500753. | 0. | 0. | 411233. | 8.954 | 571789. | 0. | 0. |
| SM | 278452224. | 0. | 0. | 101841168. | 6662.078 | 318443680. | 0. | 0. |
| AV | 374264. | 0. | 0. | 136883. | 8.954 | 428016. | 0. | 0. |
| MONTHLY SUMMARY (SEP) | | | | | | | | |
| MN | 258907. | 0. | 0. | 0. | 8.954 | 295777. | 0. | 0. |
| MX | 518655. | 0. | 0. | 336007. | 8.954 | 600823. | 0. | 0. |
| SM | 235943632. | 0. | 0. | 54327460. | 6447.172 | 269529056. | 0. | 0. |
| AV | 327700. | 0. | 0. | 75455. | 8.954 | 374346. | 0. | 0. |
| MONTHLY SUMMARY (OCT) | | | | | | | | |
| MN | 258907. | -480388. | -244824. | 0. | 8.954 | 295777. | -550935. | -150065. |
| MX | 430959. | 0. | 0. | 188338. | 8.954 | 491659. | 0. | 0. |
| SM | 205208352. | -184469088. | -17637110. | 8023775. | 6662.078 | 234210736. | -211559088. | -12561942. |
| AV | 275818. | -247942. | -23706. | 10785. | 8.954 | 314799. | -284354. | -16884. |
| MONTHLY SUMMARY (NOV) | | | | | | | | |
| MN | 258907. | -480388. | -239512. | 0. | 8.954 | 295777. | -550935. | -143876. |
| MX | 662049. | -480388. | 0. | 0. | 8.954 | 755997. | -550935. | 0. |
| SM | 202339936. | -345879456. | -73774136. | 0. | 6447.172 | 230922928. | -396673216. | -48205740. |
| AV | 281028. | -480388. | -102464. | 0. | 8.954 | 320726. | -550935. | -66952. |
| MONTHLY SUMMARY (DEC) | | | | | | | | |
| MN | 258907. | -480388. | -349257. | 0. | 8.954 | 295777. | -550935. | -207525. |
| MX | 277410. | -480388. | 0. | 0. | 8.954 | 316805. | -550935. | -4865. |
| SM | 192718656. | -357408768. | -136545568. | 0. | 6662.078 | 220162176. | -409895648. | -85200568. |
| AV | 259030. | -480388. | -183529. | 0. | 8.954 | 295917. | -550935. | -114517. |
| YEARLY SUMMARY | | | | | | | | |
| MN | 258907. | -480388. | -431732. | 0. | 8.954 | 295777. | -550935. | -250292. |
| MX | 662049. | 0. | 0. | 421986. | 8.954 | 755997. | 0. | 0. |
| SM | 2619602944. | -2271275008. | -630426368. | 380469504. | 78440.594 | 2992893952. | -2604820736. | -404325792. |
| AV | 299041. | -259278. | -71966. | 43433. | 8.954 | 341655. | -297354. | -46156. |

| MMDDHH | AHU-4 | AHU-4 | AHU-4 | AHU-4 |
|-----------------------|-------------------------------|--------------------------|-------------------------------|-------------------------------|
| | TOT CLG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR |
| | ---- (6) | ----(49) | ----(70) | ----(78) |
| MONTHLY SUMMARY (JAN) | | | | |
| MN | 0. | 4.766 | 155664. | -293224. |
| MX | 0. | 4.766 | 155664. | -293224. |
| SM | 0. | 3545.754 | 115814320. | -218158688. |
| AV | 0. | 4.766 | 155664. | -293224. |
| MONTHLY SUMMARY (FEB) | | | | |
| MN | 0. | 4.766 | 155664. | -293224. |
| MX | 0. | 4.766 | 160319. | -293224. |
| SM | 0. | 3202.617 | 104615744. | -197046560. |
| AV | 0. | 4.766 | 155678. | -293224. |
| MONTHLY SUMMARY (MAR) | | | | |
| MN | 0. | 4.766 | 155664. | -293224. |
| MX | 0. | 4.766 | 197184. | -293224. |
| SM | 0. | 3545.754 | 116194384. | -218158688. |
| AV | 0. | 4.766 | 156175. | -293224. |
| MONTHLY SUMMARY (APR) | | | | |
| MN | 0. | 4.766 | 155664. | -293224. |
| MX | 0. | 4.766 | 273065. | -293224. |
| SM | 0. | 3431.375 | 115785296. | -211121312. |
| AV | 0. | 4.766 | 160813. | -293224. |
| MONTHLY SUMMARY (MAY) | | | | |
| MN | 0. | 4.766 | 155664. | 0. |
| MX | 111190. | 4.766 | 302441. | 0. |
| SM | 9042501. | 3545.754 | 129421816. | 0. |
| AV | 12154. | 4.766 | 173954. | 0. |
| MONTHLY SUMMARY (JUN) | | | | |
| MN | 0. | 4.766 | 155664. | 0. |
| MX | 209331. | 4.766 | 283165. | 0. |
| SM | 39713716. | 3431.375 | 150782464. | 0. |
| AV | 55158. | 4.766 | 209420. | 0. |
| MONTHLY SUMMARY (JUL) | | | | |
| MN | 0. | 4.766 | 156263. | 0. |
| MX | 227022. | 4.766 | 318717. | 0. |
| SM | 59073152. | 3545.754 | 172398944. | 0. |
| AV | 79399. | 4.766 | 231719. | 0. |

| | AHU-4 | AHU-4 | AHU-4 | AHU-4 |
|-----------------------|-------------------------------|--------------------------|-------------------------------|-------------------------------|
| | TOT CLG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR |
| | ---- (6) | ----(49) | ---- (70) | ---- (78) |
| MONTHLY SUMMARY (AUG) | | | | |
| MN | 0. | 4.766 | 155664. | 0. |
| MX | 216808. | 4.766 | 299501. | 0. |
| SM | 52234332. | 3545.754 | 168466656. | 0. |
| AV | 70207. | 4.766 | 226434. | 0. |
| MONTHLY SUMMARY (SEP) | | | | |
| MN | 0. | 4.766 | 155664. | 0. |
| MX | 176141. | 4.766 | 321067. | 0. |
| SM | 26143264. | 3431.375 | 142061760. | 0. |
| AV | 36310. | 4.766 | 197308. | 0. |
| MONTHLY SUMMARY (OCT) | | | | |
| MN | 0. | 4.766 | 155664. | -293224. |
| MX | 87421. | 4.766 | 253048. | 0. |
| SM | 2512896. | 3545.754 | 122556376. | -112598048. |
| AV | 3378. | 4.766 | 164726. | -151341. |
| MONTHLY SUMMARY (NOV) | | | | |
| MN | 0. | 4.766 | 155664. | -293224. |
| MX | 0. | 4.766 | 396613. | -293224. |
| SM | 0. | 3431.375 | 121185272. | -211121312. |
| AV | 0. | 4.766 | 168313. | -293224. |
| MONTHLY SUMMARY (DEC) | | | | |
| MN | 0. | 4.766 | 155664. | -293224. |
| MX | 0. | 4.766 | 166606. | -293224. |
| SM | 0. | 3545.754 | 115869344. | -218158688. |
| AV | 0. | 4.766 | 155738. | -293224. |
| YEARLY SUMMARY | | | | |
| MN | 0. | 4.766 | 155664. | -293224. |
| MX | 227022. | 4.766 | 396613. | 0. |
| SM | 188719856. | 41748.395 | 1575152512. | -1386363264. |
| AV | 21543. | 4.766 | 179812. | -158261. |

| S I T E E N E R G Y | | | | | | | | | | | | | * SOURCE |
|---------------------|-----------------------|--------------------------|-------------------------|------------------|-----------------------------|--------------------------|--------------------------|--------------------------|--------------------------|------------------------|------------------------|-------------------------|---------------------------|
| MONTH | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| | TOTAL HEAT LOAD | TOTAL COOLING LOAD | TOTAL ELECTR LOAD | RCVRED ENERGY | WASTED RCVRABL ENERGY | FUEL INPUT COOLING | ELEC INPUT COOLING | FUEL INPUT HEATING | ELEC INPUT HEATING | FUEL INPUT ELECT | TOTAL FUEL INPUT | TOTAL SITE ENERGY | TOTAL SOURCE ENERGY |
| JAN | 507.9 | 0.0 | 189.7 55.6E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 823.9 | 47.3 13.9E | 0.0 | 823.9 | 1013.6 | 1393.7 |
| FEB | 416.1 | 0.0 | 167.4 49.0E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 673.0 | 38.7 11.3E | 0.0 | 673.0 | 840.4 | 1175.8 |
| MAR | 287.8 | 0.0 | 177.3 51.9E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 470.3 | 29.2 8.5E | 0.0 | 470.3 | 647.6 | 1002.8 |
| APR | 136.9 | 0.0 | 155.5 45.6E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 223.7 | 15.8 4.6E | 0.0 | 223.7 | 379.2 | 690.8 |
| MAY | 0.0 | 80.5 | 277.9 81.4E | 0.0 | 0.0 | 0.0 | 135.5 39.7E | 0.0 | 0.0 0.0E | 0.0 | 0.0 | 277.9 | 834.6 |
| JUN | 0.0 | 259.2 | 451.4 132.2E | 0.0 | 0.0 | 0.0 | 308.8 90.4E | 0.0 | 0.0 0.0E | 0.0 | 0.0 | 451.4 | 1355.6 |
| JUL | 0.0 | 369.3 | 540.2 158.2E | 0.0 | 0.0 | 0.0 | 400.7 117.3E | 0.0 | 0.0 0.0E | 0.0 | 0.0 | 540.2 | 1622.3 |
| AUG | 0.0 | 331.3 | 510.5 149.5E | 0.0 | 0.0 | 0.0 | 362.3 106.1E | 0.0 | 0.0 0.0E | 0.0 | 0.0 | 510.5 | 1533.0 |
| SEP | 0.0 | 181.4 | 376.7 110.3E | 0.0 | 0.0 | 0.0 | 236.9 69.4E | 0.0 | 0.0 0.0E | 0.0 | 0.0 | 376.7 | 1131.2 |
| OCT | 62.6 | 39.9 | 225.6 66.1E | 0.0 | 0.0 | 0.0 | 78.6 23.0E | 102.3 | 7.5 2.2E | 0.0 | 102.3 | 328.0 | 779.9 |
| NOV | 247.5 | 0.0 | 162.4 47.6E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 404.5 | 25.5 7.5E | 0.0 | 404.5 | 566.9 | 892.2 |
| DEC | 448.4 | 0.0 | 185.6 54.4E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 732.2 | 43.2 12.7E | 0.0 | 732.2 | 917.9 | 1289.7 |
| | 2107.3 | 1261.6 | 3420.4 1001.8E | 0.0 | 0.0 | 0.0 | 1522.8 446.0E | 3430.0 | 207.1 60.7E | 0.0 | 3430.0 | 6850.5 | 13701.6 |

NOTE-- ALL ENTRIES ARE IN MBTU EXCEPT
 ENTRIES FOLLOWED BY E ARE IN MWH (THOUSANDS OF KWH)

ENTECH ENGINEERING
 READING, PA 19603
 REPORT- PS-B MONTHLY PEAK AND TOTAL ENERGY USE

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
 FT. GEORGE G. MRADE UMCS STUDY

DOE-2.1D 1/12/1996 10: 4:42 PDL RUN 1
 BUILDING 4411 - EXISTING CONDITIONS
 WEATHER FILE- BALTIMORE, MD

| MO | UTILITY- | ELECTRICITY | NATURAL-GAS |
|-----|--------------|-------------|-------------|
| | TOTAL (MBTU) | 189.735 | 823.908 |
| JAN | PEAK (KBTU) | 464.611 | 1989.593 |
| | DY/HR | 31/10 | 31/ 6 |
| | TOTAL (MBTU) | 167.428 | 672.976 |
| FEB | PEAK (KBTU) | 464.611 | 2109.389 |
| | DY/HR | 4/ 9 | 12/10 |
| | TOTAL (MBTU) | 177.320 | 470.319 |
| MAR | PEAK (KBTU) | 450.679 | 1741.406 |
| | DY/HR | 4/ 7 | 5/ 8 |
| | TOTAL (MBTU) | 155.532 | 223.712 |
| APR | PEAK (KBTU) | 437.423 | 1411.326 |
| | DY/HR | 8/ 7 | 9/ 8 |
| | TOTAL (MBTU) | 277.936 | 0.000 |
| MAY | PEAK (KBTU) | 1003.018 | 0.000 |
| | DY/HR | 6/17 | 31/ 1 |
| | TOTAL (MBTU) | 451.426 | 0.000 |
| JUN | PEAK (KBTU) | 1114.769 | 0.000 |
| | DY/HR | 28/15 | 30/ 1 |
| | TOTAL (MBTU) | 540.215 | 0.000 |
| JUL | PEAK (KBTU) | 1119.294 | 0.000 |
| | DY/HR | 25/14 | 31/ 1 |
| | TOTAL (MBTU) | 510.497 | 0.000 |
| AUG | PEAK (KBTU) | 1117.074 | 0.000 |
| | DY/HR | 18/15 | 31/ 1 |
| | TOTAL (MBTU) | 376.706 | 0.000 |
| SEP | PEAK (KBTU) | 1101.149 | 0.000 |
| | DY/HR | 1/17 | 30/ 1 |
| | TOTAL (MBTU) | 225.624 | 102.348 |
| OCT | PEAK (KBTU) | 970.493 | 1357.165 |
| | DY/HR | 13/16 | 16/ 2 |
| | TOTAL (MBTU) | 162.397 | 404.529 |
| NOV | PEAK (KBTU) | 434.182 | 1263.524 |
| | DY/HR | 25/ 7 | 8/ 5 |
| | TOTAL (MBTU) | 185.626 | 732.238 |
| DEC | PEAK (KBTU) | 461.595 | 1797.763 |
| | DY/HR | 21/ 9 | 22/ 3 |
| | ONE YEAR | 3420.442 | 3430.031 |
| | USE/PEAK | 1119.294 | 2109.389 |

ENTECH ENGINEERING
READING, PA 19603
REPORT- PS-D PLANT LOADS SATISFIED

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
FT. GEORGE G. MRADE UMCS STUDY

DOB-2.1D 1/12/1996 10: 4.42 PDL RUN 1
BUILDING 4411 - EXISTING CONDITIONS
WEATHER FILE- BALTIMORE, MD

| HEATING LOADS | MBTU SUPPLIED | PCT OF TOTAL LOAD |
|---------------------|---------------|-------------------|
| ----- | ----- | ----- |
| HW-BOILER | 2107.3 | 100.0 |
| | ----- | ----- |
| LOAD SATISFIED | 2107.3 | 100.0 |
| TOTAL LOAD ON PLANT | 2107.3 | |

| COOLING LOADS | MBTU SUPPLIED | PCT OF TOTAL LOAD |
|---------------------|---------------|-------------------|
| ----- | ----- | ----- |
| HERM-REC-CHLR | 1261.6 | 100.0 |
| | ----- | ----- |
| LOAD SATISFIED | 1261.6 | 100.0 |
| TOTAL LOAD ON PLANT | 1261.6 | |

| ELECTRICAL LOADS | MBTU SUPPLIED | PCT OF TOTAL LOAD |
|---------------------|---------------|-------------------|
| ----- | ----- | ----- |
| ELECTRICITY | 3420.4 | 100.0 |
| | ----- | ----- |
| LOAD SATISFIED | 3420.4 | 100.0 |
| TOTAL LOAD ON PLANT | 3420.4 | |

ENTECH ENGINEERING
READING, PA 19603
REPORT- PS-D PLANT LOADS SATISFIED

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
FT. GEORGE G. MEADE UMCS STUDY

DOE-2.1D 1/12/1996 10: 4:42 PDL RUN 1
BUILDING 4411 - EXISTING CONDITIONS
WEATHER FILE- BALTIMORE, MD
----- (CONTINUED) -----

SUMMARY OF LOADS MET

| TYPE OF LOAD | TOTAL LOAD (MBTU) | LOAD SATISFIED (MBTU) | TOTAL OVERLOAD (MBTU) | PEAK OVERLOAD (MBTU) | HOURS OVERLOADED |
|------------------|-------------------------|-----------------------------|-----------------------------|----------------------------|---------------------|
| HEATING LOADS | 2107.3 | 2107.3 | 0.000 | 0.000 | 0 |
| COOLING LOADS | 1261.6 | 1261.6 | 3.182 | 0.262 | 51 |
| ELECTRICAL LOADS | 3420.4 | 3420.4 | 0.000 | 0.000 | 0 |

ENTECH ENGINEERING
 READING, PA 19603
 REPORT- PS-H EQUIPMENT USE STATISTICS

E2DOE - ELITE SOFTWARE DEVELOPMENT INC
 FT. GEORGE G. MEADE UMCS STUDY

DOE-2.1D 1/12/1996 10: 4:42 PDL RUN 1
 BUILDING 4411 - EXISTING CONDITIONS
 WEATHER FILE- BALTIMORE, MD

| EQUIPMENT | AVG OPER RATIO | MAX LOAD (MBTU) | MON | | ----- | | ----- | | ----- | | ----- | |
|---------------|----------------------|-----------------------|-----|----|----------------|-------------|----------------|-------------|----------------|-------------|----------------|-------------|
| | | | DAY | HR | SIZE (MBTU) | OPER HRS | SIZE (MBTU) | OPER HRS | SIZE (MBTU) | OPER HRS | SIZE (MBTU) | OPER HRS |
| HW-BOILER | 0.111 | 1.401 | 2 | 12 | 10 | 4.000 | 4728 | | | | | |
| HERM-REC-CHLR | 0.260 | 1.167 | 7 | 25 | 23 | 1.100 | 4416 | | | | | |

ENTECH ENGINEERING
READING, PA 19603
REPORT- PS-I EQUIPMENT LIFE CYCLE COSTS

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
FT. GEORGE G. MEADE UMCS STUDY

DOB-2.1D 1/12/1996 10: 4:42 PDL RUN 1
BUILDING 4411 - EXISTING CONDITIONS
WEATHER FILE- BALTIMORE, MD

E Q U I P M E N T T O T A L S

| | | | |
|-----------------------|-------|-------|-------|
| HW-BOILER | 189.8 | | |
| NOMINAL SIZE (MBTU) | | 4.000 | |
| NUMBER INSTALLED | | | 2 |
| FIRST COST (K\$) | 179.6 | 179.6 | |
| ANNUAL COST (K\$) | 4.6 | 4.6 | |
| CYCLICAL COST (K\$) | 5.6 | 5.6 | |
| -----TOTAL----- (K\$) | | | 189.8 |
| HERM-REC-CHLR | 36.5 | | |
| NOMINAL SIZE (MBTU) | | 1.100 | |
| NUMBER INSTALLED | | | 1 |
| FIRST COST (K\$) | 24.2 | 24.2 | |
| ANNUAL COST (K\$) | 2.3 | 2.3 | |
| CYCLICAL COST (K\$) | 10.1 | 10.1 | |
| -----TOTAL----- (K\$) | | | 36.5 |
| EQUIPMENT TOTAL | 226.3 | | |

ENTECH ENGINEERING
READING, PA 19603
REPORT- BEPS ESTIMATED BUILDING ENERGY PERFORMANCE

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
FT. GEORGE G. MEADE UMCS STUDY

DOE-2.1D 1/12/1996 10: 4:42 PDL RUN 1
BUILDING 4411 - EXISTING CONDITIONS
WEATHER FILE- BALTIMORE, MD

| ENERGY TYPE IN SITE MBTU - | ELECTRICITY | NATURAL-GAS |
|-------------------------------|-------------|-------------|
| CATEGORY OF USE | | |
| SPACE HEAT | 182.74 | 3430.00 |
| SPACE COOL | 1458.62 | 0.00 |
| HVAC AUX | 920.88 | 0.00 |
| DOM HOT WTR | 0.00 | 0.00 |
| AUX SOLAR | 0.00 | 0.00 |
| LIGHTS | 667.58 | 0.00 |
| VERT TRANS | 0.00 | 0.00 |
| MISC EQUIP | 190.73 | 0.00 |
| | ----- | ----- |
| TOTAL | 3420.56 | 3430.00 |

| | | | |
|---------------------|---------------|-------------------------------|-----------------------------|
| TOTAL SITE ENERGY | 6850.47 MBTU | 206.2 KBTU/SQFT-YR GROSS-AREA | 206.2 KBTU/SQFT-YR NET-AREA |
| TOTAL SOURCE ENERGY | 13701.63 MBTU | 412.4 KBTU/SQFT-YR GROSS-AREA | 412.4 KBTU/SQFT-YR NET-AREA |

PERCENT OF HOURS ANY SYSTEM ZONE OUTSIDE OF THROTTLING RANGE = 0.0
PERCENT OF HOURS ANY PLANT LOAD NOT SATISFIED = 0.6

NOTE ELECTRICITY AND/OR FUEL USED TO GENERATE ELECTRICITY IS APPORTIONED BASED
ON THE YEARLY DEMAND. ALL OTHER ENERGY TYPES ARE APPORTIONED HOURLY.

| MMDDHH | HW-BOILE R LOAD BTU/HR | HW-BOILE R ELECTRIC USE BTU/HR | HW-BOILE R FUEL USE BTU/HR | HERM-REC -CHLR LOAD BTU/HR | HERM-REC -CHLR ELECTRIC USE BTU/HR | HERM-REC -CHLR NOM CAP RUNNING BTU/HR |
|-----------------------|---------------------------------|--------------------------------------------|----------------------------------------|-------------------------------------|------------------------------------------------|---------------------------------------------------|
| | ---- (1) | ---- (3) | ---- (4) | ---- (1) | ---- (3) | ---- (7) |
| MONTHLY SUMMARY (JAN) | | | | | | |
| MN | 83826. | 7377. | 136983. | 0. | 0. | 0. |
| MX | 1298967. | 88000. | 1989593. | 0. | 0. | 0. |
| SM | 507938560. | 43477696. | 823907648. | 0. | 0. | 0. |
| AV | 682713. | 58438. | 1107403. | 0. | 0. | 0. |
| MONTHLY SUMMARY (FEB) | | | | | | |
| MN | 9269. | 816. | 15148. | 0. | 0. | 0. |
| MX | 1400574. | 88000. | 2109389. | 0. | 0. | 0. |
| SM | 416092096. | 35231956. | 672975488. | 0. | 0. | 0. |
| AV | 619185. | 52429. | 1001452. | 0. | 0. | 0. |
| MONTHLY SUMMARY (MAR) | | | | | | |
| MN | 9269. | 816. | 15148. | 0. | 0. | 0. |
| MX | 1089828. | 88000. | 1741406. | 0. | 0. | 0. |
| SM | 287840416. | 25319440. | 470318880. | 0. | 0. | 0. |
| AV | 386882. | 34032. | 632149. | 0. | 0. | 0. |
| MONTHLY SUMMARY (APR) | | | | | | |
| MN | 9269. | 816. | 15148. | 0. | 0. | 0. |
| MX | 863651. | 76001. | 1411326. | 0. | 0. | 0. |
| SM | 136898704. | 12047083. | 223711552. | 0. | 0. | 0. |
| AV | 190137. | 16732. | 310711. | 0. | 0. | 0. |
| MONTHLY SUMMARY (MAY) | | | | | | |
| MN | 0. | 0. | 0. | 26163. | 47231. | 1100000. |
| MX | 0. | 0. | 0. | 681945. | 617023. | 1100000. |
| SM | 0. | 0. | 0. | 80477848. | 124697840. | 818400000. |
| AV | 0. | 0. | 0. | 108169. | 167605. | 1100000. |
| MONTHLY SUMMARY (JUN) | | | | | | |
| MN | 0. | 0. | 0. | 26163. | 47231. | 1100000. |
| MX | 0. | 0. | 0. | 1128034. | 728773. | 1100000. |
| SM | 0. | 0. | 0. | 259234160. | 298312672. | 792000000. |
| AV | 0. | 0. | 0. | 360047. | 414323. | 1100000. |
| MONTHLY SUMMARY (JUL) | | | | | | |
| MN | 0. | 0. | 0. | 26163. | 47231. | 1100000. |
| MX | 0. | 0. | 0. | 1166669. | 733298. | 1100000. |
| SM | 0. | 0. | 0. | 369337856. | 389848160. | 818400000. |
| AV | 0. | 0. | 0. | 496422. | 523989. | 1100000. |

| | HW-BOILE R LOAD BTU/HR | HW-BOILE R ELECTRIC USE BTU/HR | HW-BOILE R FUEL USE BTU/HR | HERM-REC -CHLR LOAD BTU/HR | HERM-REC -CHLR ELECTRIC USE BTU/HR | HERM-REC -CHLR NOM CAP RUNNING BTU/HR |
|-----------------------|---------------------------------|--------------------------------------------|----------------------------------------|-------------------------------------|------------------------------------------------|---------------------------------------------------|
| | ---- (1) | ---- (3) | ---- (4) | ---- (1) | ---- (3) | ---- (7) |
| MONTHLY SUMMARY (AUG) | | | | | | |
| MN | 0. | 0. | 0. | 26163. | 47231. | 1100000. |
| MX | 0. | 0. | 0. | 1123747. | 731078. | 1100000. |
| SM | 0. | 0. | 0. | 331285280. | 351514112. | 818400000. |
| AV | 0. | 0. | 0. | 445276. | 472465. | 1100000. |
| MONTHLY SUMMARY (SEP) | | | | | | |
| MN | 0. | 0. | 0. | 26163. | 47231. | 1100000. |
| MX | 0. | 0. | 0. | 1044929. | 715153. | 1100000. |
| SM | 0. | 0. | 0. | 181430880. | 226464992. | 792000000. |
| AV | 0. | 0. | 0. | 251987. | 314535. | 1100000. |
| MONTHLY SUMMARY (OCT) | | | | | | |
| MN | 0. | 0. | 0. | 26163. | 47231. | 1100000. |
| MX | 830507. | 73085. | 1357165. | 572580. | 584497. | 1100000. |
| SM | 62631476. | 5511569. | 102348568. | 39863280. | 67764248. | 818400000. |
| AV | 84182. | 7408. | 137565. | 53580. | 91081. | 1100000. |
| MONTHLY SUMMARY (NOV) | | | | | | |
| MN | 9269. | 816. | 15148. | 0. | 0. | 0. |
| MX | 773204. | 68042. | 1263524. | 0. | 0. | 0. |
| SM | 247548416. | 21784262. | 404528704. | 0. | 0. | 0. |
| AV | 343817. | 30256. | 561845. | 0. | 0. | 0. |
| MONTHLY SUMMARY (DEC) | | | | | | |
| MN | 16882. | 1486. | 27587. | 0. | 0. | 0. |
| MX | 1137158. | 88000. | 1797763. | 0. | 0. | 0. |
| SM | 448351264. | 39368704. | 732237568. | 0. | 0. | 0. |
| AV | 602623. | 52915. | 984190. | 0. | 0. | 0. |
| YEARLY SUMMARY | | | | | | |
| MN | 0. | 0. | 0. | 0. | 0. | 0. |
| MX | 1400574. | 88000. | 2109389. | 1166669. | 733298. | 1100000. |
| SM | 2107300864. | 182740704. | 3430028288. | 1261629312. | 1458601984. | 4857600000. |
| AV | 240559. | 20861. | 391556. | 144022. | 166507. | 554521. |

| MMDDHH | AHU-1 | AHU-1 | AHU-1 | AHU-1 | AHU-1 | AHU-2 | AHU-2 | AHU-2 |
|-----------------------|-------------------------------|-------------------------------|--------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|--------------------------|
| | TOT HTG COIL PWR BTU/HR | TOT CLG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR | TOT CLG COIL PWR BTU/HR | SUPPLY ELECTRIC KW |
| | ---- (5) | ---- (6) | ---- (49) | ---- (70) | ---- (78) | ---- (5) | ---- (6) | ---- (49) |
| MONTHLY SUMMARY (JAN) | | | | | | | | |
| MN | -402798. | 0. | 0.000 | 0. | -387286. | -499259. | 0. | 0.000 |
| MX | 0. | 0. | 6.295 | 209824. | 0. | 0. | 0. | 7.808 |
| SM | -59015640. | 0. | 1586.239 | 52875556. | -97596120. | -62584944. | 0. | 1967.566 |
| AV | -79322. | 0. | 2.132 | 71069. | -131178. | -84120. | 0. | 2.645 |
| MONTHLY SUMMARY (FEB) | | | | | | | | |
| MN | -399990. | 0. | 0.000 | 0. | -387286. | -496212. | 0. | 0.000 |
| MX | 0. | 0. | 6.295 | 209824. | 0. | 0. | 0. | 7.808 |
| SM | -48701132. | 0. | 1435.169 | 47839788. | -88301256. | -48930920. | 0. | 1780.178 |
| AV | -72472. | 0. | 2.136 | 71190. | -131401. | -72814. | 0. | 2.649 |
| MONTHLY SUMMARY (MAR) | | | | | | | | |
| MN | -391833. | 0. | 0.000 | 0. | -387286. | -454014. | 0. | 0.000 |
| MX | 0. | 0. | 6.295 | 230420. | 0. | 0. | 0. | 7.808 |
| SM | -35330188. | 0. | 1737.309 | 58043904. | -106890984. | -31902280. | 0. | 2154.953 |
| AV | -47487. | 0. | 2.335 | 78016. | -143671. | -42879. | 0. | 2.896 |
| MONTHLY SUMMARY (APR) | | | | | | | | |
| MN | -312783. | 0. | 0.000 | 0. | -387286. | -306333. | 0. | 0.000 |
| MX | 0. | 0. | 6.295 | 349134. | 0. | 0. | 0. | 7.808 |
| SM | -14071661. | 0. | 1586.239 | 55092520. | -97596120. | -10899122. | 0. | 1967.566 |
| AV | -19544. | 0. | 2.203 | 76517. | -135550. | -15138. | 0. | 2.733 |
| MONTHLY SUMMARY (MAY) | | | | | | | | |
| MN | 0. | 0. | 0.000 | 0. | 0. | 0. | 0. | 0.000 |
| MX | 0. | 136146. | 6.295 | 333317. | 0. | 0. | 194034. | 7.808 |
| SM | 0. | 7458229. | 1586.239 | 59458168. | 0. | 0. | 13624313. | 1967.566 |
| AV | 0. | 10025. | 2.132 | 79917. | 0. | 0. | 18312. | 2.645 |
| MONTHLY SUMMARY (JUN) | | | | | | | | |
| MN | 0. | 0. | 0.000 | 0. | 0. | 0. | 0. | 0.000 |
| MX | 0. | 286026. | 6.295 | 390583. | 0. | 0. | 374271. | 7.808 |
| SM | 0. | 31959684. | 1661.774 | 74974208. | 0. | 0. | 45794332. | 2061.259 |
| AV | 0. | 44388. | 2.308 | 104131. | 0. | 0. | 63603. | 2.863 |
| MONTHLY SUMMARY (JUL) | | | | | | | | |
| MN | 0. | 0. | 0.000 | 0. | 0. | 0. | 0. | 0.000 |
| MX | 0. | 321078. | 6.295 | 370146. | 0. | 0. | 412239. | 7.808 |
| SM | 0. | 42040324. | 1510.704 | 71828808. | 0. | 0. | 55945496. | 1873.872 |
| AV | 0. | 56506. | 2.031 | 96544. | 0. | 0. | 75196. | 2.519 |

| | AHU-1 | AHU-1 | AHU-1 | AHU-1 | AHU-1 | AHU-2 | AHU-2 | AHU-2 |
|-----------------------|-------------------------------|-------------------------------|--------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|--------------------------|
| | TOT HTG COIL PWR BTU/HR | TOT CLG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR | TOT CLG COIL PWR BTU/HR | SUPPLY ELECTRIC KW |
| | ----(5) | ----(6) | ----(49) | ----(70) | ----(78) | ----(5) | ----(6) | ----(49) |
| MONTHLY SUMMARY (AUG) | | | | | | | | |
| MN | 0. | 0. | 0.000 | 0. | 0. | 0. | 0. | 0.000 |
| MX | 0. | 295870. | 6.295 | 357443. | 0. | 0. | 385910. | 7.808 |
| SM | 0. | 43150440. | 1737.309 | 81486536. | 0. | 0. | 58901660. | 2154.953 |
| AV | 0. | 57998. | 2.335 | 109525. | 0. | 0. | 79169. | 2.896 |
| MONTHLY SUMMARY (SEP) | | | | | | | | |
| MN | 0. | 0. | 0.000 | 0. | 0. | 0. | 0. | 0.000 |
| MX | 0. | 252605. | 6.295 | 352605. | 0. | 0. | 321369. | 7.808 |
| SM | 0. | 21797450. | 1586.239 | 65059808. | 0. | 0. | 32337430. | 1967.566 |
| AV | 0. | 30274. | 2.203 | 90361. | 0. | 0. | 44913. | 2.733 |
| MONTHLY SUMMARY (OCT) | | | | | | | | |
| MN | -260671. | 0. | 0.000 | 0. | -387286. | -259509. | 0. | 0.000 |
| MX | 0. | 108775. | 6.295 | 280685. | 0. | 0. | 173853. | 7.808 |
| SM | -5237630. | 2313090. | 1510.704 | 53691632. | -51121784. | -3958649. | 5996223. | 1873.872 |
| AV | -7040. | 3109. | 2.031 | 72166. | -68712. | -5321. | 8059. | 2.519 |
| MONTHLY SUMMARY (NOV) | | | | | | | | |
| MN | -368294. | 0. | 0.000 | 0. | -387286. | -407358. | 0. | 0.000 |
| MX | 0. | 0. | 6.295 | 517420. | 0. | 0. | 0. | 7.808 |
| SM | -27144216. | 0. | 1510.704 | 57330564. | -92948688. | -26321932. | 0. | 1873.872 |
| AV | -37700. | 0. | 2.098 | 79626. | -129095. | -36558. | 0. | 2.683 |
| MONTHLY SUMMARY (DEC) | | | | | | | | |
| MN | -401741. | 0. | 0.000 | 0. | -387286. | -474965. | 0. | 0.000 |
| MX | 0. | 0. | 6.295 | 213459. | 0. | 0. | 0. | 7.808 |
| SM | -53031920. | 0. | 1586.239 | 52881272. | -97596120. | -55645948. | 0. | 1967.566 |
| AV | -71279. | 0. | 2.132 | 71077. | -131178. | -74793. | 0. | 2.645 |
| YEARLY SUMMARY | | | | | | | | |
| MN | -402798. | 0. | 0.000 | 0. | -387286. | -499259. | 0. | 0.000 |
| MX | 0. | 321078. | 6.295 | 517420. | 0. | 0. | 412239. | 7.808 |
| SM | -242532400. | 148719216. | 19034.869 | 730562816. | -632051072. | -240243808. | 212599456. | 23610.789 |
| AV | -27686. | 16977. | 2.173 | 83398. | -72152. | -27425. | 24269. | 2.695 |

| MMDDHH | AHU-2 | AHU-2 | AHU-3 | AHU-3 | AHU-3 | AHU-3 | AHU-3 | AHU-3 | AHU-4 |
|-----------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|--------------------------|-------------------------------|-------------------------------|-------------------------------|-------|
| | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR | TOT CLG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR | |
| | ----(70) | ----(78) | ----(5) | ----(6) | ----(49) | ----(70) | ----(78) | ----(5) | |
| MONTHLY SUMMARY (JAN) | | | | | | | | | |
| MN | 0. | -480388. | -572577. | 0. | 0.000 | 0. | -550935. | -304657. | |
| MX | 258907. | 0. | 0. | 0. | 8.954 | 295777. | 0. | 0. | |
| SM | 65244644. | -121057904. | -72415736. | 0. | 2256.509 | 74535904. | -138835664. | -44177240. | |
| AV | 87694. | -162712. | -97333. | 0. | 3.033 | 100183. | -186607. | -59378. | |
| MONTHLY SUMMARY (FEB) | | | | | | | | | |
| MN | 0. | -480388. | -569074. | 0. | 0.000 | 0. | -550935. | -302854. | |
| MX | 258907. | 0. | 0. | 0. | 8.954 | 295777. | 0. | 0. | |
| SM | 59030868. | -109528576. | -55977768. | 0. | 2041.603 | 67437248. | -125613216. | -34771208. | |
| AV | 87844. | -162989. | -83300. | 0. | 3.038 | 100353. | -186924. | -51743. | |
| MONTHLY SUMMARY (MAR) | | | | | | | | | |
| MN | 0. | -480388. | -523020. | 0. | 0.000 | 0. | -550935. | -295817. | |
| MX | 307474. | 0. | 0. | 0. | 8.954 | 355503. | 0. | 0. | |
| SM | 71842672. | -132587232. | -37658680. | 0. | 2471.414 | 82085776. | -152058096. | -25553426. | |
| AV | 96563. | -178209. | -50617. | 0. | 3.322 | 110330. | -204379. | -34346. | |
| MONTHLY SUMMARY (APR) | | | | | | | | | |
| MN | 0. | -480388. | -359698. | 0. | 0.000 | 0. | -550935. | -211891. | |
| MX | 463268. | 0. | 0. | 0. | 8.954 | 528876. | 0. | 0. | |
| SM | 69542208. | -121057904. | -13834005. | 0. | 2256.509 | 79412704. | -138835664. | -10570656. | |
| AV | 96586. | -168136. | -19214. | 0. | 3.134 | 110295. | -192827. | -14681. | |
| MONTHLY SUMMARY (MAY) | | | | | | | | | |
| MN | 0. | 0. | 0. | 0. | 0.000 | 0. | 0. | 0. | |
| MX | 397962. | 0. | 0. | 219986. | 8.954 | 458435. | 0. | 0. | |
| SM | 74049920. | 0. | 0. | 14480117. | 2256.509 | 84697280. | 0. | 0. | |
| AV | 39529. | 0. | 0. | 19463. | 3.033 | 113840. | 0. | 0. | |
| MONTHLY SUMMARY (JUN) | | | | | | | | | |
| MN | 0. | 0. | 0. | 0. | 0.000 | 0. | 0. | 0. | |
| MX | 453605. | 0. | 0. | 423799. | 8.954 | 510150. | 0. | 0. | |
| SM | 92180736. | 0. | 0. | 50220472. | 2363.961 | 105303632. | 0. | 0. | |
| AV | 128029. | 0. | 0. | 69751. | 3.283 | 146255. | 0. | 0. | |
| MONTHLY SUMMARY (JUL) | | | | | | | | | |
| MN | 0. | 0. | 0. | 0. | 0.000 | 0. | 0. | 0. | |
| MX | 461372. | 0. | 0. | 467239. | 8.954 | 532480. | 0. | 0. | |
| SM | 88303376. | 0. | 0. | 61732904. | 2149.056 | 100801256. | 0. | 0. | |
| AV | 118687. | 0. | 0. | 82974. | 2.889 | 135486. | 0. | 0. | |

| | AHU-2 | AHU-2 | AHU-3 | AHU-3 | AHU-3 | AHU-3 | AHU-3 | AHU-4 |
|-----------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|--------------------------|-------------------------------|-------------------------------|-------------------------------|
| | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR | TOT CLG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR |
| | ----(70) | ----(78) | ----(5) | ----(6) | ----(49) | ----(70) | ----(78) | ----(5) |
| MONTHLY SUMMARY (AUG) | | | | | | | | |
| MN | 0. | 0. | 0. | 0. | 0.000 | 0. | 0. | 0. |
| MX | 433910. | 0. | 0. | 436683. | 8.954 | 492226. | 0. | 0. |
| SM | 100244760. | 0. | 0. | 65061972. | 2471.414 | 114549432. | 0. | 0. |
| AV | 134738. | 0. | 0. | 87449. | 3.322 | 153964. | 0. | 0. |
| MONTHLY SUMMARY (SEP) | | | | | | | | |
| MN | 0. | 0. | 0. | 0. | 0.000 | 0. | 0. | 0. |
| MX | 422170. | 0. | 0. | 360442. | 8.954 | 485696. | 0. | 0. |
| SM | 80567008. | 0. | 0. | 35012216. | 2256.509 | 91940408. | 0. | 0. |
| AV | 111899. | 0. | 0. | 48628. | 3.134 | 127695. | 0. | 0. |
| MONTHLY SUMMARY (OCT) | | | | | | | | |
| MN | 0. | -480388. | -303866. | 0. | 0.000 | 0. | -550935. | -188156. |
| MX | 345176. | 0. | 0. | 196223. | 8.954 | 393557. | 0. | 0. |
| SM | 67092104. | -63411268. | -5134238. | 6314585. | 2149.056 | 76604008. | -72723424. | -4153298. |
| AV | 90178. | -85230. | -6901. | 8487. | 2.889 | 102962. | -97747. | -5582. |
| MONTHLY SUMMARY (NOV) | | | | | | | | |
| MN | 0. | -480388. | -459349. | 0. | 0.000 | 0. | -550935. | -256571. |
| MX | 657976. | 0. | 0. | 0. | 8.954 | 751710. | 0. | 0. |
| SM | 71460808. | -115293240. | -31114950. | 0. | 2149.056 | 81529112. | -132224440. | -20334640. |
| AV | 99251. | -160130. | -43215. | 0. | 2.985 | 113235. | -183645. | -28243. |
| MONTHLY SUMMARY (DEC) | | | | | | | | |
| MN | 0. | -480388. | -551986. | 0. | 0.000 | 0. | -550935. | -305109. |
| MX | 265247. | 0. | 0. | 0. | 8.954 | 303479. | 0. | 0. |
| SM | 65259484. | -121057904. | -64614116. | 0. | 2256.509 | 74552416. | -138835664. | -39660300. |
| AV | 87714. | -162712. | -86847. | 0. | 3.033 | 100205. | -186607. | -53307. |
| YEARLY SUMMARY | | | | | | | | |
| MN | 0. | -480388. | -572577. | 0. | 0.000 | 0. | -550935. | -305109. |
| MX | 657976. | 0. | 0. | 467239. | 8.954 | 751710. | 0. | 0. |
| SM | 904818560. | -783994048. | -280749504. | 232822272. | 27078.102 | 1033449216. | -899126144. | -179220768. |
| AV | 103290. | -89497. | -32049. | 26578. | 3.091 | 117974. | -102640. | -20459. |

| MMDDHH | AHU-4 | AHU-4 | AHU-4 | AHU-4 |
|-----------------------|-------------------------------|--------------------------|-------------------------------|-------------------------------|
| | TOT CLG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR |
| | ---- (6) | ---- (49) | ---- (70) | ---- (78) |
| MONTHLY SUMMARY (JAN) | | | | |
| MN | 0. | 0.000 | 0. | -293224. |
| MX | 0. | 4.766 | 155664. | 0. |
| SM | 0. | 1200.981 | 39227420. | -73892512. |
| AV | 0. | 1.614 | 52725. | -99318. |
| MONTHLY SUMMARY (FEB) | | | | |
| MN | 0. | 0.000 | 0. | -293224. |
| MX | 0. | 4.766 | 155664. | 0. |
| SM | 0. | 1086.602 | 35491476. | -66855132. |
| AV | 0. | 1.617 | 52815. | -99487. |
| MONTHLY SUMMARY (MAR) | | | | |
| MN | 0. | 0.000 | 0. | -293224. |
| MX | 0. | 4.766 | 178200. | 0. |
| SM | 0. | 1315.360 | 43107344. | -80929888. |
| AV | 0. | 1.768 | 57940. | -108777. |
| MONTHLY SUMMARY (APR) | | | | |
| MN | 0. | 0.000 | 0. | -293224. |
| MX | 0. | 4.766 | 270729. | 0. |
| SM | 0. | 1200.981 | 41262624. | -73892512. |
| AV | 0. | 1.668 | 57309. | -102628. |
| MONTHLY SUMMARY (MAY) | | | | |
| MN | 0. | 0.000 | 0. | 0. |
| MX | 111164. | 4.766 | 249625. | 0. |
| SM | 5051088. | 1200.981 | 44516536. | 0. |
| AV | 8133. | 1.614 | 59834. | 0. |
| MONTHLY SUMMARY (JUN) | | | | |
| MN | 0. | 0.000 | 0. | 0. |
| MX | 224536. | 4.766 | 279107. | 0. |
| SM | 24459034. | 1258.171 | 55751992. | 0. |
| AV | 33971. | 1.747 | 77433. | 0. |
| MONTHLY SUMMARY (JUL) | | | | |
| MN | 0. | 0.000 | 0. | 0. |
| MX | 247132. | 4.766 | 280402. | 0. |
| SM | 31606610. | 1143.792 | 53279324. | 0. |
| AV | 42482. | 1.537 | 71612. | 0. |

| | AHU-4 | AHU-4 | AHU-4 | AHU-4 |
|-----------------------|-------------------------------|--------------------------|-------------------------------|-------------------------------|
| | TOT CLG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR |
| | ---- (6) | ---- (49) | ---- (70) | ---- (78) |
| MONTHLY SUMMARY (AUG) | | | | |
| MN | 0. | 0.000 | 0. | 0. |
| MX | 229142. | 4.766 | 268668. | 0. |
| SM | 32781380. | 1315.360 | 60649580. | 0. |
| AV | 44061. | 1.768 | 81518. | 0. |
| MONTHLY SUMMARY (SEP) | | | | |
| MN | 0. | 0.000 | 0. | 0. |
| MX | 191917. | 4.766 | 262547. | 0. |
| SM | 16552510. | 1200.981 | 48330232. | 0. |
| AV | 22990. | 1.668 | 67125. | 0. |
| MONTHLY SUMMARY (OCT) | | | | |
| MN | 0. | 0.000 | 0. | -293224. |
| MX | 90081. | 4.766 | 208366. | 0. |
| SM | 2037468. | 1143.792 | 40165216. | -38705596. |
| AV | 2739. | 1.537 | 53986. | -52024. |
| MONTHLY SUMMARY (NOV) | | | | |
| MN | 0. | 0.000 | 0. | -293224. |
| MX | 0. | 4.766 | 394086. | 0. |
| SM | 0. | 1143.792 | 42770988. | -70373824. |
| AV | 0. | 1.589 | 59404. | -97741. |
| MONTHLY SUMMARY (DEC) | | | | |
| MN | 0. | 0.000 | 0. | -293224. |
| MX | 0. | 4.766 | 160615. | 0. |
| SM | 0. | 1200.981 | 39236820. | -73892512. |
| AV | 0. | 1.614 | 52738. | -99318. |
| YEARLY SUMMARY | | | | |
| MN | 0. | 0.000 | 0. | -293224. |
| MX | 247132. | 4.766 | 394086. | 0. |
| SM | 113488096. | 14411.776 | 543789568. | -478541984. |
| AV | 12955. | 1.645 | 62076. | -54628. |

| MONTH | S I T E E N E R G Y | | | | | | | | | | | | SOURCE |
|-------|-----------------------|--------------------------|-------------------------|------------------|-----------------------------|--------------------------|--------------------------|--------------------------|--------------------------|------------------------|------------------------|-------------------------|---------------------------|
| | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | |
| | TOTAL HEAT LOAD | TOTAL COOLING LOAD | TOTAL ELECTR LOAD | RCVRED ENERGY | WASTED RCVRABL ENERGY | FUEL INPUT COOLING | ELEC INPUT COOLING | FUEL INPUT HEATING | ELEC INPUT HEATING | FUEL INPUT ELECT | TOTAL FUEL INPUT | TOTAL SITE ENERGY | TOTAL SOURCE ENERGY |
| JAN | 250.2 | 0.0 | 120.3 35.2E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 390.8 | 24.6 7.2E | 0.0 | 390.8 | 511.1 | 752.0 |
| FEB | 198.6 | 0.0 | 107.1 31.4E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 312.3 | 20.6 6.0E | 0.0 | 312.3 | 419.5 | 634.1 |
| MAR | 141.4 | 0.0 | 121.7 35.6E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 228.2 | 18.0 5.3E | 0.0 | 228.2 | 349.8 | 593.5 |
| APR | 60.0 | 0.0 | 106.4 31.2E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 97.8 | 11.1 3.3E | 0.0 | 97.8 | 204.2 | 417.4 |
| MAY | 0.0 | 63.2 | 199.3 58.4E | 0.0 | 0.0 | 0.0 | 103.6 30.3E | 0.0 | 0.0 0.0E | 0.0 | 0.0 | 199.3 | 598.4 |
| JUN | 0.0 | 173.3 | 282.9 82.8E | 0.0 | 0.0 | 0.0 | 183.6 53.8E | 0.0 | 0.0 0.0E | 0.0 | 0.0 | 282.9 | 849.5 |
| JUL | 0.0 | 212.9 | 285.7 83.7E | 0.0 | 0.0 | 0.0 | 194.0 56.8E | 0.0 | 0.0 0.0E | 0.0 | 0.0 | 285.7 | 857.9 |
| AUG | 0.0 | 221.5 | 311.0 91.1E | 0.0 | 0.0 | 0.0 | 207.3 60.7E | 0.0 | 0.0 0.0E | 0.0 | 0.0 | 311.0 | 934.0 |
| SEP | 0.0 | 126.6 | 244.3 71.6E | 0.0 | 0.0 | 0.0 | 149.0 43.6E | 0.0 | 0.0 0.0E | 0.0 | 0.0 | 244.3 | 733.7 |
| OCT | 24.1 | 38.2 | 173.0 50.7E | 0.0 | 0.0 | 0.0 | 76.1 22.3E | 39.4 | 5.3 1.5E | 0.0 | 39.4 | 212.4 | 559.0 |
| NOV | 115.5 | 0.0 | 107.0 31.3E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 186.9 | 15.7 4.6E | 0.0 | 186.9 | 293.9 | 508.2 |
| DEC | 223.9 | 0.0 | 119.4 35.0E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 355.2 | 23.7 6.9E | 0.0 | 355.2 | 474.6 | 713.7 |
| ***** | 1013.7 | 835.6 | 2178.0 637.9E | 0.0 | 0.0 | 0.0 | 913.6 267.6E | 1610.6 | 118.9 34.8E | 0.0 | 1610.6 | 3788.6 | 8151.2 |

NOTE-- ALL ENTRIES ARE IN MBTU EXCEPT
 ENTRIES FOLLOWED BY E ARE IN MWH (THOUSANDS OF KWH)

ENTECH ENGINEERING
 READING, PA 19603

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
 FT. GEORGE G. MEADE UMCS STUDY

DOE-2.1D 6/13/1996 7:54:59 PDL RUN 1
 BUILDING 4411 - NEW CONDITIONS
 WEATHER FILE- BALTIMORE, MD

REPORT- PS-B MONTHLY PEAK AND TOTAL ENERGY USE

| MO | UTILITY- | ELECTRICITY | NATURAL-GAS |
|-----|--------------|-------------|-------------|
| | TOTAL (MBTU) | 120.271 | 390.785 |
| JAN | PEAK (KBTU) | 467.634 | 3058.255 |
| | DY/HR | 31/17 | 17/ 7 |
| | TOTAL (MBTU) | 107.136 | 312.336 |
| FEB | PEAK (KBTU) | 467.634 | 2954.196 |
| | DY/HR | 28/ 7 | 14/ 7 |
| | TOTAL (MBTU) | 121.664 | 228.151 |
| MAR | PEAK (KBTU) | 467.634 | 2435.478 |
| | DY/HR | 28/ 7 | 7/ 7 |
| | TOTAL (MBTU) | 106.436 | 97.772 |
| APR | PEAK (KBTU) | 467.634 | 1828.217 |
| | DY/HR | 11/ 7 | 8/ 7 |
| | TOTAL (MBTU) | 199.254 | 0.000 |
| MAY | PEAK (KBTU) | 1005.411 | 0.000 |
| | DY/HR | 6/17 | 31/ 1 |
| | TOTAL (MBTU) | 282.884 | 0.000 |
| JUN | PEAK (KBTU) | 1120.914 | 0.000 |
| | DY/HR | 27/15 | 30/ 1 |
| | TOTAL (MBTU) | 285.672 | 0.000 |
| JUL | PEAK (KBTU) | 1120.855 | 0.000 |
| | DY/HR | 25/14 | 31/ 1 |
| | TOTAL (MBTU) | 311.020 | 0.000 |
| AUG | PEAK (KBTU) | 1118.544 | 0.000 |
| | DY/HR | 18/15 | 31/ 1 |
| | TOTAL (MBTU) | 244.309 | 0.000 |
| SEP | PEAK (KBTU) | 1116.381 | 0.000 |
| | DY/HR | 1/16 | 30/ 1 |
| | TOTAL (MBTU) | 173.032 | 39.414 |
| OCT | PEAK (KBTU) | 978.911 | 1665.025 |
| | DY/HR | 13/16 | 24/ 7 |
| | TOTAL (MBTU) | 106.991 | 186.907 |
| NOV | PEAK (KBTU) | 467.634 | 2199.719 |
| | DY/HR | 28/11 | 25/ 8 |
| | TOTAL (MBTU) | 119.378 | 355.203 |
| DEC | PEAK (KBTU) | 467.634 | 2520.886 |
| | DY/HR | 28/ 7 | 27/ 7 |
| | ONE YEAR | 2178.047 | 1610.568 |
| | USE/PEAK | 1120.914 | 3058.255 |

ENTECH ENGINEERING
READING, PA 19603
REPORT- PS-D PLANT LOADS SATISFIED

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
FT. GEORGE G. MEADE UMCS STUDY

DOE-2.1D 6/13/1996 7:54:59 PDL RUN 1
BUILDING 4411 - NEW CONDITIONS
WEATHER FILE- BALTIMORE, MD

| HEATING LOADS | MBTU SUPPLIED | PCT OF TOTAL LOAD |
|---------------------|---------------|-------------------|
| ----- | ----- | ----- |
| HW-BOILER | 1013.7 | 100.0 |
| | ----- | ----- |
| LOAD SATISFIED | 1013.7 | 100.0 |
| TOTAL LOAD ON PLANT | 1013.7 | |
| | | |
| COOLING LOADS | MBTU SUPPLIED | PCT OF TOTAL LOAD |
| ----- | ----- | ----- |
| HERM-REC-CHLR | 835.6 | 100.0 |
| | ----- | ----- |
| LOAD SATISFIED | 835.6 | 100.0 |
| TOTAL LOAD ON PLANT | 835.6 | |
| | | |
| ELECTRICAL LOADS | MBTU SUPPLIED | PCT OF TOTAL LOAD |
| ----- | ----- | ----- |
| ELECTRICITY | 2178.0 | 100.0 |
| | ----- | ----- |
| LOAD SATISFIED | 2178.0 | 100.0 |
| TOTAL LOAD ON PLANT | 2178.0 | |

ENTECH ENGINEERING
READING, PA 19603
REPORT- PS-D PLANT LOADS SATISFIED

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
FT. GEORGE G. MEADE 'MCS STUDY

DOB-2.1D 6/13/1996 7:54:59 PDL RUN 1
BUILDING 4411 - NEW CONDITIONS
WEATHER FILE- BALTIMORE, MD
----- (CONTINUED) -----

SUMMARY OF LOADS MET

| TYPE OF LOAD | TOTAL LOAD (MBTU) | LOAD SATISFIED (MBTU) | TOTAL OVERLOAD (MBTU) | PEAK OVERLOAD (MBTU) | HOURS OVERLOADED |
|------------------|-------------------------|-----------------------------|-----------------------------|----------------------------|---------------------|
| HEATING LOADS | 1013.7 | 1013.7 | 0.000 | 0.000 | 0 |
| COOLING LOADS | 835.6 | 835.6 | 12.472 | 0.420 | 122 |
| ELECTRICAL LOADS | 2178.0 | 2178.0 | 0.000 | 0.000 | 0 |

ENTECH ENGINEERING
 READING, PA 19603
 REPORT- PS-H EQUIPMENT USE STATISTICS

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
 FT. GEORGE G. MEADE UMCS STUDY

DOE-2.1D 6/13/1996 7:54:59 PDL RUN 1
 BUILDING 4411 - NEW CONDITIONS
 WEATHER FILE- BALTIMORE, MD

| EQUIPMENT | AVG OPER RATIO | MAX LOAD (MBTU) | MON | | SIZE OPER | | SIZE OPER | | SIZE OPER | | SIZE OPER | |
|---------------|----------------------|-----------------------|-----|----|-----------|-------|-----------|-----|-----------|-----|-----------|-----|
| | | | DAY | HR | (MBTU) | HRS | (MBTU) | HRS | (MBTU) | HRS | (MBTU) | HRS |
| HW-BOILER | 0.054 | 2.221 | 1 | 17 | 7 | 4.000 | 4728 | | | | | |
| HERM-REC-CHLR | 0.172 | 1.174 | 7 | 18 | 8 | 1.100 | 4416 | | | | | |

ENTECH ENGINEERING
READING, PA 19603
REPORT- PS-I EQUIPMENT LIFE CYCLE COSTS

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
FT. GEORGE G. MEADE UMCS STUDY

DOE-2.1D 6/13/1996 7:54:59 PDL RUN 1
BUILDING 4411 - NEW CONDITIONS
WEATHER FILE- BALTIMORE, MD

E Q U I P M E N T T O T A L S

| | | | |
|-----------------------|-------|-------|--|
| HW-BOILER | 189.8 | | |
| NOMINAL SIZE (MBTU) | | 4.000 | |
| NUMBER INSTALLED | | 2 | |
| FIRST COST (K\$) | 179.6 | 179.6 | |
| ANNUAL COST (K\$) | 4.6 | 4.6 | |
| CYCLICAL COST (K\$) | 5.6 | 5.6 | |
| -----TOTAL----- (K\$) | | 189.8 | |
| HERM-REC-CHLR | 36.5 | | |
| NOMINAL SIZE (MBTU) | | 1.100 | |
| NUMBER INSTALLED | | 1 | |
| FIRST COST (K\$) | 24.2 | 24.2 | |
| ANNUAL COST (K\$) | 2.3 | 2.3 | |
| CYCLICAL COST (K\$) | 10.1 | 10.1 | |
| -----TOTAL----- (K\$) | | 36.5 | |
| EQUIPMENT TOTAL | 226.3 | | |

ENTECH ENGINEERING
READING, PA 19603
REPORT- BEPS ESTIMATED BUILDING ENERGY PERFORMANCE

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
FT. GEORGE G. MEADE UMCS STUDY

DOB-2.1D 6/13/1996 7:54:59 PDL RUN 1
BUILDING 4411 - NEW CONDITIONS
WEATHER FILE- BALTIMORE, MD

| ENERGY TYPE | ELECTRICITY | NATURAL-GAS |
|-----------------|-------------|-------------|
| IN SITE MBTU - | | |
| CATEGORY OF USE | | |
| SPACE HEAT | 80.23 | 1610.55 |
| SPACE COOL | 842.44 | 0.00 |
| HVAC AUX | 397.09 | 0.00 |
| DOM HOT WTR | 0.00 | 0.00 |
| AUX SOLAR | 0.00 | 0.00 |
| LIGHTS | 667.59 | 0.00 |
| VERT TRANS | 0.00 | 0.00 |
| MISC EQUIP | 190.74 | 0.00 |
| TOTAL | 2178.09 | 1610.55 |

| | | | |
|---------------------|--------------|-------------------------------|-----------------------------|
| TOTAL SITE ENERGY | 3788.61 MBTU | 114.0 KBTU/SQFT-YR GROSS-AREA | 114.0 KBTU/SQFT-YR NET-AREA |
| TOTAL SOURCE ENERGY | 3151.25 MBTU | 245.3 KBTU/SQFT-YR GROSS-AREA | 245.3 KBTU/SQFT-YR NET-AREA |

PERCENT OF HOURS ANY SYSTEM ZONE OUTSIDE OF THROTTLING RANGE = 3.2
PERCENT OF HOURS ANY PLANT LOAD NOT SATISFIED = 1.4

NOTE ELECTRICITY AND/OR FUEL USED TO GENERATE ELECTRICITY IS APPORTIONED BASED
ON THE YEARLY DEMAND. ALL OTHER ENERGY TYPES ARE APPORTIONED HOURLY.

| MMDDHH | HW-BOILE R LOAD BTU/HR | HW-BOILE R ELECTRIC USE BTU/HR | HW-BOILE R FUEL USE BTU/HR | HERM-REC -CHLR LOAD BTU/HR | HERM-REC -CHLR ELECTRIC USE BTU/HR | HERM-REC -CHLR NOM CAP RUNNING BTU/HR |
|-----------------------|---------------------------------|--------------------------------------------|----------------------------------------|-------------------------------------|------------------------------------------------|---------------------------------------------------|
| | ---- (1) | ---- (3) | ---- (4) | ---- (1) | ---- (3) | ---- (7) |
| MONTHLY SUMMARY (JAN) | | | | | | |
| MN | 14701. | 1294. | 24024. | 0. | 0. | 0. |
| MX | 2221308. | 88000. | 3058265. | 0. | 0. | 0. |
| SM | 250176944. | 18504650. | 390783008. | 0. | 0. | 0. |
| AV | 336259. | 24872. | 525246. | 0. | 0. | 0. |
| MONTHLY SUMMARY (FEB) | | | | | | |
| MN | 14701. | 1294. | 24024. | 0. | 0. | 0. |
| MX | 2129863. | 88000. | 2954196. | 0. | 0. | 0. |
| SM | 198617008. | 15088269. | 312333216. | 0. | 0. | 0. |
| AV | 295561. | 22453. | 464782. | 0. | 0. | 0. |
| MONTHLY SUMMARY (MAR) | | | | | | |
| MN | 14701. | 1294. | 24024. | 0. | 0. | 0. |
| MX | 1679385. | 38000. | 2435478. | 0. | 0. | 0. |
| SM | 141382352. | 11872891. | 228149040. | 0. | 0. | 0. |
| AV | 190030. | 15958. | 306652. | 0. | 0. | 0. |
| MONTHLY SUMMARY (APR) | | | | | | |
| MN | 14701. | 1294. | 24024. | 0. | 0. | 0. |
| MX | 1162773. | 38000. | 1828217. | 0. | 0. | 0. |
| SM | 59960400. | 5234311. | 97772424. | 0. | 0. | 0. |
| AV | 83278. | 7270. | 135795. | 0. | 0. | 0. |
| MONTHLY SUMMARY (MAY) | | | | | | |
| MN | 0. | 0. | 0. | 28972. | 52302. | 1100000. |
| MX | 0. | 0. | 0. | 690302. | 517853. | 1100000. |
| SM | 0. | 0. | 0. | 63169120. | 31591964. | 818400000. |
| AV | 0. | 0. | 0. | 84905. | 123108. | 1100000. |
| MONTHLY SUMMARY (JUN) | | | | | | |
| MN | 0. | 0. | 0. | 28972. | 52302. | 1100000. |
| MX | 0. | 0. | 0. | 1147748. | 733357. | 1100000. |
| SM | 0. | 0. | 0. | 173293552. | 171965344. | 792000000. |
| AV | 0. | 0. | 0. | 240685. | 238841. | 1100000. |
| MONTHLY SUMMARY (JUL) | | | | | | |
| MN | 0. | 0. | 0. | 28972. | 52302. | 1100000. |
| MX | 0. | 0. | 0. | 1173596. | 733293. | 1100000. |
| SM | 0. | 0. | 0. | 212880704. | 182022960. | 818400000. |
| AV | 0. | 0. | 0. | 286130. | 244655. | 1100000. |

| | HW-BOILE R LOAD BTU/HR | HW-BOILE R ELECTRIC USE BTU/HR | HW-BOILE R FUEL USE BTU/HR | HERM-REC -CHLR LOAD BTU/HR | HERM-REC -CHLR ELECTRIC USE BTU/HR | HERM-REC -CHLR NOM CAP RUNNING BTU/HR |
|-----------------------|---------------------------------|--------------------------------------------|----------------------------------------|-------------------------------------|------------------------------------------------|---------------------------------------------------|
| | ---- (1) | ---- (3) | ---- (4) | ---- (1) | ---- (3) | ---- (7) |
| MONTHLY SUMMARY (AUG) | | | | | | |
| MN | 0. | 0. | 0. | 28972. | 52302. | 1100000. |
| MX | 0. | 0. | 0. | 1134693. | 730987. | 1100000. |
| SM | 0. | 0. | 0. | 221450800. | 195335056. | 818400000. |
| AV | 0. | 0. | 0. | 297649. | 262547. | 1100000. |
| MONTHLY SUMMARY (SEP) | | | | | | |
| MN | 0. | 0. | 0. | 28972. | 52302. | 1100000. |
| MX | 0. | 0. | 0. | 1125296. | 728824. | 1100000. |
| SM | 0. | 0. | 0. | 126559640. | 137403008. | 792000000. |
| AV | 0. | 0. | 0. | 175777. | 190838. | 1100000. |
| MONTHLY SUMMARY (OCT) | | | | | | |
| MN | 0. | 0. | 0. | 28972. | 52302. | 1100000. |
| MX | 1025830. | 88000. | 1665025. | 597904. | 591354. | 1100000. |
| SM | 24129002. | 2120178. | 39414348. | 38216732. | 54119148. | 818400000. |
| AV | 32431. | 2850. | 52976. | 51367. | 86182. | 1100000. |
| MONTHLY SUMMARY (NOV) | | | | | | |
| MN | 14701. | 1294. | 24024. | 0. | 0. | 0. |
| MX | 1477478. | 88000. | 2199719. | 0. | 0. | 0. |
| SM | 115500696. | 9801285. | 186905920. | 0. | 0. | 0. |
| AV | 160418. | 13613. | 259592. | 0. | 0. | 0. |
| MONTHLY SUMMARY (DEC) | | | | | | |
| MN | 14701. | 1294. | 24024. | 0. | 0. | 0. |
| MX | 1752960. | 88000. | 2520886. | 0. | 0. | 0. |
| SM | 223895312. | 17611436. | 355200192. | 0. | 0. | 0. |
| AV | 300935. | 23671. | 477420. | 0. | 0. | 0. |
| YEARLY SUMMARY | | | | | | |
| MN | 0. | 0. | 0. | 0. | 0. | 0. |
| MX | 2221308. | 88000. | 3058265. | 1173596. | 733357. | 1100000. |
| SM | 1013661696. | 80233024. | 1610558208. | 835570496. | 842437504. | 4857600000. |
| AV | 115715. | 9159. | 183854. | 95385. | 96169. | 554521. |

| MMDDHH | AHU-1 | AHU-1 | AHU-1 | AHU-1 | AHU-1 | AHU-2 | AHU-2 | AHU-2 |
|-----------------------|-------------------------------|-------------------------------|--------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|--------------------------|
| | TOT HTG COIL PWR BTU/HR | TOT CLG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR | TOT CLG COIL PWR BTU/HR | SUPPLY ELECTRIC KW |
| | ---- (5) | ---- (6) | ---- (49) | ---- (70) | ---- (78) | ---- (5) | ---- (6) | ---- (49) |
| MONTHLY SUMMARY (JAN) | | | | | | | | |
| MN | -402798. | 0. | 0.000 | 0. | -387286. | -499259. | 0. | 0.000 |
| MX | 0. | 0. | 6.295 | 209824. | 0. | 0. | 0. | 7.808 |
| SM | -59015640. | 0. | 1586.239 | 52875556. | -97596120. | -62584944. | 0. | 1967.566 |
| AV | -79322. | 0. | 2.132 | 71069. | -131178. | -84120. | 0. | 2.645 |
| MONTHLY SUMMARY (FEB) | | | | | | | | |
| MN | -399990. | 0. | 0.000 | 0. | -387286. | -496212. | 0. | 0.000 |
| MX | 0. | 0. | 6.295 | 209824. | 0. | 0. | 0. | 7.808 |
| SM | -48701132. | 0. | 1435.169 | 47839788. | -88301256. | -48930920. | 0. | 1780.178 |
| AV | -72472. | 0. | 2.136 | 71190. | -131401. | -72814. | 0. | 2.649 |
| MONTHLY SUMMARY (MAR) | | | | | | | | |
| MN | -391833. | 0. | 0.000 | 0. | -387286. | -454014. | 0. | 0.000 |
| MX | 0. | 0. | 6.295 | 230420. | 0. | 0. | 0. | 7.808 |
| SM | -35330188. | 0. | 1737.309 | 58043904. | -106890984. | -31902280. | 0. | 2154.953 |
| AV | -47487. | 0. | 2.335 | 78016. | -143671. | -42879. | 0. | 2.896 |
| MONTHLY SUMMARY (APR) | | | | | | | | |
| MN | -312783. | 0. | 0.000 | 0. | -387286. | -306333. | 0. | 0.000 |
| MX | 0. | 0. | 6.295 | 349134. | 0. | 0. | 0. | 7.908 |
| SM | -14071661. | 0. | 1586.239 | 55092520. | -97596120. | -10899122. | 0. | 1967.566 |
| AV | -19544. | 0. | 2.203 | 76517. | -135550. | -15138. | 0. | 2.733 |
| MONTHLY SUMMARY (MAY) | | | | | | | | |
| MN | 0. | 0. | 0.000 | 0. | 0. | 0. | 0. | 0.000 |
| MX | 0. | 136146. | 6.295 | 333317. | 0. | 0. | 194034. | 7.808 |
| SM | 0. | 7458229. | 1586.239 | 59458168. | 0. | 0. | 13624313. | 1967.566 |
| AV | 0. | 10025. | 2.132 | 79917. | 0. | 0. | 18312. | 2.645 |
| MONTHLY SUMMARY (JUN) | | | | | | | | |
| MN | 0. | 0. | 0.000 | 0. | 0. | 0. | 0. | 0.000 |
| MX | 0. | 286026. | 6.295 | 390583. | 0. | 0. | 374271. | 7.908 |
| SM | 0. | 31959684. | 1661.774 | 74974208. | 0. | 0. | 45794332. | 2061.259 |
| AV | 0. | 44388. | 2.308 | 104131. | 0. | 0. | 63603. | 2.863 |
| MONTHLY SUMMARY (JUL) | | | | | | | | |
| MN | 0. | 0. | 0.000 | 0. | 0. | 0. | 0. | 0.000 |
| MX | 0. | 321078. | 6.295 | 370146. | 0. | 0. | 412239. | 7.808 |
| SM | 0. | 42040324. | 1510.704 | 71828808. | 0. | 0. | 55945496. | 1873.872 |
| AV | 0. | 56506. | 2.031 | 96544. | 0. | 0. | 75196. | 2.519 |

| | AHU-1 | AHU-1 | AHU-1 | AHU-1 | AHU-1 | AHU-2 | AHU-2 | AHU-2 |
|-----------------------|-------------------------------|-------------------------------|--------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|--------------------------|
| | TOT HTG COIL PWR BTU/HR | TOT CLG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR | TOT CLG COIL PWR BTU/HR | SUPPLY ELECTRIC KW |
| | ---- (5) | ---- (6) | ----(49) | ----(70) | ----(78) | ---- (5) | ---- (6) | ----(49) |
| MONTHLY SUMMARY (AUG) | | | | | | | | |
| MN | 0. | 0. | 0.000 | 0. | 0. | 0. | 0. | 0.000 |
| MX | 0. | 295870. | 6.295 | 357443. | 0. | 0. | 385910. | 7.808 |
| SM | 0. | 43150440. | 1737.309 | 81486536. | 0. | 0. | 58901660. | 2154.953 |
| AV | 0. | 57998. | 2.335 | 109525. | 0. | 0. | 79169. | 2.896 |
| MONTHLY SUMMARY (SEP) | | | | | | | | |
| MN | 0. | 0. | 0.000 | 0. | 0. | 0. | 0. | 0.000 |
| MX | 0. | 252605. | 6.295 | 352605. | 0. | 0. | 321369. | 7.808 |
| SM | 0. | 21797450. | 1586.239 | 65059808. | 0. | 0. | 32337430. | 1967.566 |
| AV | 0. | 30274. | 2.203 | 90361. | 0. | 0. | 44913. | 2.733 |
| MONTHLY SUMMARY (OCT) | | | | | | | | |
| MN | -260671. | 0. | 0.000 | 0. | -387286. | -259509. | 0. | 0.000 |
| MX | 0. | 108775. | 6.295 | 280685. | 0. | 0. | 173853. | 7.808 |
| SM | -5237630. | 2313090. | 1510.704 | 53691632. | -51121784. | -3958649. | 5996223. | 1873.872 |
| AV | -7040. | 3109. | 2.031 | 72166. | -68712. | -5321. | 8059. | 2.519 |
| MONTHLY SUMMARY (NOV) | | | | | | | | |
| MN | -368294. | 0. | 0.000 | 0. | -387286. | -407358. | 0. | 0.000 |
| MX | 0. | 0. | 6.295 | 517420. | 0. | 0. | 0. | 7.808 |
| SM | -27144216. | 0. | 1510.704 | 57330564. | -92948688. | -26321932. | 0. | 1873.872 |
| AV | -37700. | 0. | 2.098 | 79626. | -129095. | -36558. | 0. | 2.603 |
| MONTHLY SUMMARY (DEC) | | | | | | | | |
| MN | -401741. | 0. | 0.000 | 0. | -387286. | -474965. | 0. | 0.000 |
| MX | 0. | 0. | 6.295 | 213459. | 0. | 0. | 0. | 7.808 |
| SM | -53031920. | 0. | 1586.239 | 52881272. | -97596120. | -55645948. | 0. | 1967.566 |
| AV | -71279. | 0. | 2.132 | 71077. | -131178. | -74793. | 0. | 2.645 |
| YEARLY SUMMARY | | | | | | | | |
| MN | -402798. | 0. | 0.000 | 0. | -387286. | -499259. | 0. | 0.000 |
| MX | 0. | 321078. | 6.295 | 517420. | 0. | 0. | 412239. | 7.808 |
| SM | -242532400. | 148719216. | 19034.869 | 730562816. | -632051072. | -240243808. | 212599456. | 23610.789 |
| AV | -27686. | 16977. | 2.173 | 83398. | -72152. | -27425. | 24269. | 2.695 |

| MMDDHH | AHU-2 | AHU-2 | AHU-3 | AHU-3 | AHU-3 | AHU-3 | AHU-3 | AHU-4 |
|-----------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|--------------------------|-------------------------------|-------------------------------|-------------------------------|
| | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR | TOT CLG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR |
| | ---- (70) | ---- (78) | ---- (5) | ---- (6) | ---- (49) | ---- (70) | ---- (78) | ---- (5) |
| MONTHLY SUMMARY (JAN) | | | | | | | | |
| MN | 0. | -480388. | -572577. | 0. | 0.000 | 0. | -550935. | -304657. |
| MX | 258907. | 0. | 0. | 0. | 8.954 | 295777. | 0. | 0. |
| SM | 65244644. | -121057904. | -72415736. | 0. | 2256.509 | 74535904. | -138835664. | -44177240. |
| AV | 87694. | -162712. | -97333. | 0. | 3.033 | 100183. | -186607. | -59378. |
| MONTHLY SUMMARY (FEB) | | | | | | | | |
| MN | 0. | -480388. | -569074. | 0. | 0.000 | 0. | -550935. | -302854. |
| MX | 258907. | 0. | 0. | 0. | 8.954 | 295777. | 0. | 0. |
| SM | 59030868. | -109528576. | -55977768. | 0. | 2041.603 | 67437248. | -125613216. | -34771208. |
| AV | 87844. | -162989. | -83300. | 0. | 3.038 | 100353. | -186924. | -51743. |
| MONTHLY SUMMARY (MAR) | | | | | | | | |
| MN | 0. | -480388. | -523020. | 0. | 0.000 | 0. | -550935. | -295817. |
| MX | 307474. | 0. | 0. | 0. | 8.954 | 355503. | 0. | 0. |
| SM | 71842672. | -132587232. | -37658680. | 0. | 2471.414 | 82085776. | -152058096. | -25553426. |
| AV | 96563. | -178209. | -50617. | 0. | 3.322 | 110330. | -204379. | -34346. |
| MONTHLY SUMMARY (APR) | | | | | | | | |
| MN | 0. | -480388. | -359698. | 0. | 0.000 | 0. | -550935. | -211891. |
| MX | 463268. | 0. | 0. | 0. | 8.954 | 528876. | 0. | 0. |
| SM | 69542208. | -121057904. | -13834005. | 0. | 2256.509 | 79412704. | -138835664. | -10570656. |
| AV | 96586. | -168136. | -19214. | 0. | 3.134 | 110295. | -192827. | -14681. |
| MONTHLY SUMMARY (MAY) | | | | | | | | |
| MN | 0. | 0. | 0. | 0. | 0.000 | 0. | 0. | 0. |
| MX | 397962. | 0. | 0. | 219986. | 8.954 | 458435. | 0. | 0. |
| SM | 74049920. | 0. | 0. | 14480117. | 2256.509 | 34697230. | 0. | 0. |
| AV | 99529. | 0. | 0. | 19463. | 3.033 | 113840. | 0. | 0. |
| MONTHLY SUMMARY (JUN) | | | | | | | | |
| MN | 0. | 0. | 0. | 0. | 0.000 | 0. | 0. | 0. |
| MX | 453605. | 0. | 0. | 423799. | 8.954 | 510150. | 0. | 0. |
| SM | 92180736. | 0. | 0. | 50220472. | 2363.961 | 105303632. | 0. | 0. |
| AV | 128029. | 0. | 0. | 69751. | 3.283 | 146255. | 0. | 0. |
| MONTHLY SUMMARY (JUL) | | | | | | | | |
| MN | 0. | 0. | 0. | 0. | 0.000 | 0. | 0. | 0. |
| MX | 461372. | 0. | 0. | 467239. | 8.954 | 532480. | 0. | 0. |
| SM | 88303376. | 0. | 0. | 61732904. | 2149.056 | 100801256. | 0. | 0. |
| AV | 118687. | 0. | 0. | 82974. | 2.989 | 135486. | 0. | 0. |

| | AHU-2 | AHU-2 | AHU-3 | AHU-3 | AHU-3 | AHU-3 | AHU-3 | AHU-4 |
|-----------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|--------------------------|-------------------------------|-------------------------------|-------------------------------|
| | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR | TOT CLG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR |
| | ---- (70) | ---- (78) | ---- (5) | ---- (6) | ---- (49) | ---- (70) | ---- (78) | ---- (5) |
| MONTHLY SUMMARY (AUG) | | | | | | | | |
| MN | 0. | 0. | 0. | 0. | 0.000 | 0. | 0. | 0. |
| MX | 433910. | 0. | 0. | 436683. | 8.954 | 492226. | 0. | 0. |
| SM | 100244760. | 0. | 0. | 65061972. | 2471.414 | 114549432. | 0. | 0. |
| AV | 134738. | 0. | 0. | 87449. | 3.322 | 153964. | 0. | 0. |
| MONTHLY SUMMARY (SEP) | | | | | | | | |
| MN | 0. | 0. | 0. | 0. | 0.000 | 0. | 0. | 0. |
| MX | 422170. | 0. | 0. | 360442. | 8.954 | 485696. | 0. | 0. |
| SM | 80567008. | 0. | 0. | 35012216. | 2256.509 | 91940408. | 0. | 0. |
| AV | 111899. | 0. | 0. | 48628. | 3.134 | 127695. | 0. | 0. |
| MONTHLY SUMMARY (OCT) | | | | | | | | |
| MN | 0. | -480388. | -303866. | 0. | 0.000 | 0. | -550935. | -188156. |
| MX | 345176. | 0. | 0. | 196223. | 8.954 | 393557. | 0. | 0. |
| SM | 67092104. | -63411268. | -5134238. | 6314585. | 2149.056 | 76604008. | -72723424. | -4153298. |
| AV | 90178. | -85230. | -6901. | 8487. | 2.889 | 102962. | -97747. | -5582. |
| MONTHLY SUMMARY (NOV) | | | | | | | | |
| MN | 0. | -480388. | -459349. | 0. | 0.000 | 0. | -550935. | -256571. |
| MX | 657976. | 0. | 0. | 0. | 8.954 | 751710. | 0. | 0. |
| SM | 71460808. | -115293240. | -31114950. | 0. | 2149.056 | 81529112. | -132224440. | -20334640. |
| AV | 99251. | -160130. | -43215. | 0. | 2.985 | 113235. | -183645. | -28243. |
| MONTHLY SUMMARY (DEC) | | | | | | | | |
| MN | 0. | -480388. | -551986. | 0. | 0.000 | 0. | -550935. | -305109. |
| MX | 265247. | 0. | 0. | 0. | 8.954 | 103479. | 0. | 0. |
| SM | 65259484. | -121057904. | -64614116. | 0. | 2256.509 | 74552416. | -138835664. | -39660300. |
| AV | 87714. | -162712. | -86847. | 0. | 3.033 | 100205. | -186607. | -53307. |
| YEARLY SUMMARY | | | | | | | | |
| MN | 0. | -480388. | -572577. | 0. | 0.000 | 0. | -550935. | -305109. |
| MX | 557976. | 0. | 0. | 467239. | 8.954 | 751710. | 0. | 0. |
| SM | 904818560. | -783994048. | -280749504. | 232822272. | 27078.102 | 1033449216. | -899126144. | -179220768. |
| AV | 103290. | -39497. | -32049. | 26578. | 3.091 | 117974. | -102640. | -20459. |

| MMDDHH | AHU-4 | AHU-4 | AHU-4 | AHU-4 |
|-----------------------|-------------------------------|--------------------------|-------------------------------|-------------------------------|
| | TOT CLG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR |
| | ---- (6) | ---- (49) | ---- (70) | ---- (78) |
| MONTHLY SUMMARY (JAN) | | | | |
| MN | 0. | 0.000 | 0. | -293224. |
| MX | 0. | 4.766 | 155664. | 0. |
| SM | 0. | 1200.981 | 39227420. | -73892512. |
| AV | 0. | 1.614 | 52725. | -99318. |
| MONTHLY SUMMARY (FEB) | | | | |
| MN | 0. | 0.000 | 0. | -293224. |
| MX | 0. | 4.766 | 155664. | 0. |
| SM | 0. | 1086.602 | 35491476. | -66855132. |
| AV | 0. | 1.617 | 52815. | -99487. |
| MONTHLY SUMMARY (MAR) | | | | |
| MN | 0. | 0.000 | 0. | -293224. |
| MX | 0. | 4.766 | 178200. | 0. |
| SM | 0. | 1315.360 | 43107344. | -80929888. |
| AV | 0. | 1.768 | 57940. | -108777. |
| MONTHLY SUMMARY (APR) | | | | |
| MN | 0. | 0.000 | 0. | -293224. |
| MX | 0. | 4.766 | 270729. | 0. |
| SM | 0. | 1200.981 | 41262624. | -73892512. |
| AV | 0. | 1.668 | 57309. | -102628. |
| MONTHLY SUMMARY (MAY) | | | | |
| MN | 0. | 0.000 | 0. | 0. |
| MX | 111164. | 4.766 | 249625. | 0. |
| SM | 6051088. | 1200.981 | 44516536. | 0. |
| AV | 8133. | 1.614 | 59834. | 0. |
| MONTHLY SUMMARY (JUN) | | | | |
| MN | 0. | 0.000 | 0. | 0. |
| MX | 224536. | 4.766 | 279107. | 0. |
| SM | 24459034. | 1258.171 | 55751992. | 0. |
| AV | 33971. | 1.747 | 77433. | 0. |
| MONTHLY SUMMARY (JUL) | | | | |
| MN | 0. | 0.000 | 0. | 0. |
| MX | 247132. | 4.766 | 280402. | 0. |
| SM | 31606610. | 1143.792 | 53279324. | 0. |
| AV | 42482. | 1.537 | 71612. | 0. |

| | AHU-4 | AHU-4 | AHU-4 | AHU-4 |
|-----------------------|-------------------------------|--------------------------|-------------------------------|-------------------------------|
| | TOT CLG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR |
| | ---- (6) | ---- (49) | ---- (70) | ---- (78) |
| MONTHLY SUMMARY (AUG) | | | | |
| MN | 0. | 0.000 | 0. | 0. |
| MX | 229142. | 4.766 | 268668. | 0. |
| SM | 32781380. | 1315.360 | 60649580. | 0. |
| AV | 44061. | 1.768 | 81518. | 0. |
| MONTHLY SUMMARY (SEP) | | | | |
| MN | 0. | 0.000 | 0. | 0. |
| MX | 191917. | 4.766 | 262547. | 0. |
| SM | 16552510. | 1200.981 | 48330232. | 0. |
| AV | 22990. | 1.668 | 67125. | 0. |
| MONTHLY SUMMARY (OCT) | | | | |
| MN | 0. | 0.000 | 0. | -293224. |
| MX | 90081. | 4.766 | 208366. | 0. |
| SM | 2037468. | 1143.792 | 40165216. | -38705596. |
| AV | 2739. | 1.537 | 53986. | -52024. |
| MONTHLY SUMMARY (NOV) | | | | |
| MN | 0. | 0.000 | 0. | -293224. |
| MX | 0. | 4.766 | 394086. | 0. |
| SM | 0. | 1143.792 | 42770988. | -70373824. |
| AV | 0. | 1.589 | 59404. | -97741. |
| MONTHLY SUMMARY (DEC) | | | | |
| MN | 0. | 0.000 | 0. | -293224. |
| MX | 0. | 4.766 | 160615. | 0. |
| SM | 0. | 1200.981 | 39236820. | -73892512. |
| AV | 0. | 1.614 | 52738. | -99318. |
| YEARLY SUMMARY | | | | |
| MN | 0. | 0.000 | 0. | -293224. |
| MX | 247132. | 4.766 | 394086. | 0. |
| SM | 113488096. | 14411.775 | 543789568. | -478541984. |
| AV | 12955. | 1.645 | 62076. | -54628. |

ENTECH ENGINEERING
 READING, PA 19603
 REPORT- PV-A EQUIPMENT SIZES

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
 FT. GEORGE G. MEADE UMCS STUDY

DOE-2.1D 6/13/1996 8: 0:20 PDL RUN 1
 BUILDING 4411 - NEW CONDITIONS
 WEATHER FILE- BALTIMORE, MD

| EQUIPMENT | NUMBER | | NUMBER | | NUMBER | | NUMBER | | NUMBER | |
|---------------|----------|-------|----------|-------|----------|-------|----------|-------|----------|-------|
| | SIZE | INSTD | SIZE | INSTD | SIZE | INSTD | SIZE | INSTD | SIZE | INSTD |
| | (MBTU/H) | AVAIL | (MBTU/H) | AVAIL | (MBTU/H) | AVAIL | (MBTU/H) | AVAIL | (MBTU/H) | AVAIL |
| HW-BOILER | 4.000 | 2 | 2 | | | | | | | |
| HERM-REC-CHLR | 1.100 | 1 | 1 | | | | | | | |

| MONTH | S I T E E N E R G Y | | | | | | | | | | | | 14 |
|-------|-----------------------|--------------------------|-------------------------|------------------|-----------------------------|--------------------------|--------------------------|--------------------------|--------------------------|------------------------|------------------------|-------------------------|---------------------------|
| | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | |
| | TOTAL HEAT LOAD | TOTAL COOLING LOAD | TOTAL ELECTR LOAD | RCVRED ENERGY | WASTED RCVRABL ENERGY | FUEL INPUT COOLING | ELEC INPUT COOLING | FUEL INPUT HEATING | ELEC INPUT HEATING | FUEL INPUT ELECT | TOTAL FUEL INPUT | TOTAL SITE ENERGY | TOTAL SOURCE ENERGY |
| JAN | 250.2 | 0.0 | 120.3 35.2E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 390.8 | 24.6 7.2E | 0.0 | 390.8 | 511.1 | 752.0 |
| FEB | 198.6 | 0.0 | 107.1 31.4E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 312.3 | 20.6 6.0E | 0.0 | 312.3 | 419.5 | 634.1 |
| MAR | 141.4 | 0.0 | 121.7 35.6E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 228.2 | 18.0 5.3E | 0.0 | 228.2 | 349.8 | 593.5 |
| APR | 60.0 | 0.0 | 106.4 31.2E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 97.8 | 11.1 3.3E | 0.0 | 97.8 | 204.2 | 417.4 |
| MAY | 0.0 | 63.2 | 199.3 58.4E | 0.0 | 0.0 | 0.0 | 103.5 30.3E | 0.0 | 0.0 0.0E | 0.0 | 0.0 | 199.3 | 598.4 |
| JUN | 0.0 | 173.3 | 282.9 82.8E | 0.0 | 0.0 | 0.0 | 183.6 53.8E | 0.0 | 0.0 0.0E | 0.0 | 0.0 | 282.9 | 849.5 |
| JUL | 0.0 | 212.9 | 285.7 83.7E | 0.0 | 0.0 | 0.0 | 194.0 56.3E | 0.0 | 0.0 0.0E | 0.0 | 0.0 | 285.7 | 857.9 |
| AUG | 0.0 | 221.5 | 311.0 91.1E | 0.0 | 0.0 | 0.0 | 207.3 60.7E | 0.0 | 0.0 0.0E | 0.0 | 0.0 | 311.0 | 934.0 |
| SEP | 0.0 | 126.6 | 244.3 71.6E | 0.0 | 0.0 | 0.0 | 149.0 43.6E | 0.0 | 0.0 0.0E | 0.0 | 0.0 | 244.3 | 733.7 |
| OCT | 24.1 | 38.2 | 173.0 50.7E | 0.0 | 0.0 | 0.0 | 76.1 22.3E | 39.4 | 5.3 1.5E | 0.0 | 39.4 | 212.4 | 559.0 |
| NOV | 115.5 | 0.0 | 107.0 31.3E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 186.9 | 15.7 4.6E | 0.0 | 186.9 | 293.9 | 508.2 |
| DEC | 223.9 | 0.0 | 119.4 35.0E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 355.2 | 23.7 6.9E | 0.0 | 355.2 | 474.6 | 713.7 |
| | 1013.7 | 835.6 | 2178.0 637.9E | 0.0 | 0.0 | 0.0 | 913.5 267.6E | 1610.5 | 118.9 34.8E | 0.0 | 1610.6 | 3788.6 | 9151.2 |

NOTE-- ALL ENTRIES ARE IN MBTU EXCEPT
 ENTRIES FOLLOWED BY E ARE IN MWH (THOUSANDS OF KWH)

ENTECH ENGINEERING
 READING, PA 19603
 REPORT- PS-B MONTHLY PEAK AND TOTAL ENERGY USE

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
 FT. GEORGE G. MEADE UMCS STUDY

DOB-2.1D 6/13/1996 8: 0:20 PDL RUN 1
 BUILDING 4411 - NEW CONDITIONS
 WEATHER FILE- BALTIMORE, MD

| MO | UTILITY- | ELECTRICITY | NATURAL-GAS |
|-----|--------------|-------------|-------------|
| | TOTAL (MBTU) | 120.271 | 390.785 |
| JAN | PEAK (KBTU) | 467.634 | 3058.265 |
| | DY/HR | 31/17 | 17/ 7 |
| | TOTAL (MBTU) | 107.136 | 312.336 |
| FEB | PEAK (KBTU) | 467.634 | 2954.196 |
| | DY/HR | 28/ 7 | 14/ 7 |
| | TOTAL (MBTU) | 121.664 | 228.151 |
| MAR | PEAK (KBTU) | 467.634 | 2435.478 |
| | DY/HR | 28/ 7 | 7/ 7 |
| | TOTAL (MBTU) | 106.436 | 97.772 |
| APR | PEAK (KBTU) | 467.634 | 1828.217 |
| | DY/HR | 11/ 7 | 8/ 7 |
| | TOTAL (MBTU) | 199.254 | 0.000 |
| MAY | PEAK (KBTU) | 1005.411 | 0.000 |
| | DY/HR | 6/17 | 31/ 1 |
| | TOTAL (MBTU) | 282.884 | 0.000 |
| JUN | PEAK (KBTU) | 1120.914 | 0.000 |
| | DY/HR | 27/15 | 30/ 1 |
| | TOTAL (MBTU) | 285.672 | 0.000 |
| JUL | PEAK (KBTU) | 1120.855 | 0.000 |
| | DY/HR | 25/14 | 31/ 1 |
| | TOTAL (MBTU) | 311.020 | 0.000 |
| AUG | PEAK (KBTU) | 1118.544 | 0.000 |
| | DY/HR | 18/15 | 31/ 1 |
| | TOTAL (MBTU) | 244.309 | 0.000 |
| SEP | PEAK (KBTU) | 1116.381 | 0.000 |
| | DY/HR | 1/16 | 30/ 1 |
| | TOTAL (MBTU) | 173.032 | 39.414 |
| OCT | PEAK (KBTU) | 978.911 | 1665.025 |
| | DY/HR | 13/16 | 24/ 7 |
| | TOTAL (MBTU) | 106.991 | 186.907 |
| NOV | PEAK (KBTU) | 467.634 | 2199.719 |
| | DY/HR | 28/11 | 25/ 8 |
| | TOTAL (MBTU) | 119.378 | 355.203 |
| DEC | PEAK (KBTU) | 467.634 | 2520.886 |
| | DY/HR | 28/ 7 | 27/ 7 |
| | ONE YEAR | 2178.047 | 1610.568 |
| | USE/PEAK | 1120.914 | 3058.265 |

ENTECH ENGINEERING
READING, PA 19603
REPORT- PS-D PLANT LOADS SATISFIED

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
FT. GEORGE G. MEADE UMCS STUDY

DOB-2.1D 6/13/1996 8: 0:20 PDL RUN 1
BUILDING 4411 - NEW CONDITIONS
WEATHER FILE- BALTIMORE, MD

| HEATING LOADS | MBTU SUPPLIED | PCT OF TOTAL LOAD |
|---------------------|---------------|-------------------|
| ----- | ----- | ----- |
| HW-BOILER | 1013.7 | 100.0 |
| | ----- | ----- |
| LOAD SATISFIED | 1013.7 | 100.0 |
| TOTAL LOAD ON PLANT | 1013.7 | |

| COOLING LOADS | MBTU SUPPLIED | PCT OF TOTAL LOAD |
|---------------------|---------------|-------------------|
| ----- | ----- | ----- |
| HERM-REC-CHLR | 835.6 | 100.0 |
| | ----- | ----- |
| LOAD SATISFIED | 835.6 | 100.0 |
| TOTAL LOAD ON PLANT | 835.6 | |

| ELECTRICAL LOADS | MBTU SUPPLIED | PCT OF TOTAL LOAD |
|---------------------|---------------|-------------------|
| ----- | ----- | ----- |
| ELECTRICITY | 2178.0 | 100.0 |
| | ----- | ----- |
| LOAD SATISFIED | 2178.0 | 100.0 |
| TOTAL LOAD ON PLANT | 2178.0 | |

ENTECH ENGINEERING
READING, PA 19603
REPORT- PS-D PLANT LOADS SATISFIED

BZDOE - ELITE SOFTWARE DEVELOPMENT INC
FT. GEORGE G. MEADE UMCS STUDY

DOE-2.1D 6/13/1996 8: 0:20 PDL RUN 1
BUILDING 4411 - NEW CONDITIONS
WEATHER FILE- BALTIMORE, MD
----- (CONTINUED) -----

SUMMARY OF LOADS MET

| TYPE OF LOAD | TOTAL LOAD (MBTU) | LOAD SATISFIED (MBTU) | TOTAL OVERLOAD (MBTU) | PEAK OVERLOAD (MBTU) | HOURS OVERLOADED |
|------------------|-------------------------|-----------------------------|-----------------------------|----------------------------|---------------------|
| HEATING LOADS | 1013.7 | 1013.7 | 0.000 | 0.000 | 0 |
| COOLING LOADS | 835.6 | 835.6 | 12.472 | 0.420 | 122 |
| ELECTRICAL LOADS | 2178.0 | 2178.0 | 0.000 | 0.000 | 0 |

ENTECH ENGINEERING
READING, PA 19603
REPORT- PS-I EQUIPMENT LIFE CYCLE COSTS

BZDOE - ELITE SOFTWARE DEVELOPMENT INC
FT. GEORGE G. MEADE UMCS STUDY

DOE-2.1D 6/13/1996 8: 0:20 PDL RUN 1
BUILDING 4411 - NEW CONDITIONS
WEATHER FILE- BALTIMORE, MD

EQUIPMENT TOTALS

| | | | |
|-----------------------|-------|-------|--|
| HW-BOILER | 189.8 | | |
| NOMINAL SIZE (MBTU) | | 4.000 | |
| NUMBER INSTALLED | | 2 | |
| FIRST COST (K\$) | 179.6 | 179.6 | |
| ANNUAL COST (K\$) | 4.6 | 4.6 | |
| CYCLICAL COST (K\$) | 5.6 | 5.6 | |
| -----TOTAL----- (K\$) | | 189.8 | |
| HERM-REC-CHLR | 36.5 | | |
| NOMINAL SIZE (MBTU) | | 1.100 | |
| NUMBER INSTALLED | | 1 | |
| FIRST COST (K\$) | 24.2 | 24.2 | |
| ANNUAL COST (K\$) | 2.3 | 2.3 | |
| CYCLICAL COST (K\$) | 10.1 | 10.1 | |
| -----TOTAL----- (K\$) | | 36.5 | |
| ----- | | | |
| EQUIPMENT TOTAL | 226.3 | | |

| ENERGY TYPE IN SITE MBTU - | ELECTRICITY | NATURAL-GAS |
|-------------------------------|-------------|-------------|
| CATEGORY OF USE | | |
| SPACE HEAT | 80.23 | 1610.55 |
| SPACE COOL | 842.44 | 0.00 |
| HVAC AUX | 397.09 | 0.00 |
| DOM HOT WTR | 0.00 | 0.00 |
| AUX SOLAR | 0.00 | 0.00 |
| LIGHTS | 667.59 | 0.00 |
| VERT TRANS | 0.00 | 0.00 |
| MISC EQUIP | 190.74 | 0.00 |
| TOTAL | 2178.09 | 1610.55 |

TOTAL SITE ENERGY 3788.61 MBTU 114.0 KBTU/SQFT-YR GROSS-AREA 114.0 KBTU/SQFT-YR NET-AREA
 TOTAL SOURCE ENERGY 8151.25 MBTU 245.3 KBTU/SQFT-YR GROSS-AREA 245.3 KBTU/SQFT-YR NET-AREA

PERCENT OF HOURS ANY SYSTEM ZONE OUTSIDE OF THROTTLING RANGE = 3.2
 PERCENT OF HOURS ANY PLANT LOAD NOT SATISFIED = 1.4

NOTE ELECTRICITY AND/OR FUEL USED TO GENERATE ELECTRICITY IS APPORTIONED BASED
 ON THE YEARLY DEMAND. ALL OTHER ENERGY TYPES ARE APPORTIONED HOURLY.

| MMDDHH | HW-BOILE R LOAD BTU/HR ---- (1) | HW-BOILE R ELECTRIC USE BTU/HR ---- (3) | HW-BOILE R FUEL USE BTU/HR ---- (4) | HERM-REC -CHLR LOAD BTU/HR ---- (1) | HERM-REC -CHLR ELECTRIC USE BTU/HR ---- (3) | HERM-REC -CHLR NOM CAP RUNNING BTU/HR ---- (7) |
|-----------------------|-----------------------------------------------|----------------------------------------------------------|------------------------------------------------------|---------------------------------------------------|--------------------------------------------------------------|-----------------------------------------------------------------|
| MONTHLY SUMMARY (JAN) | | | | | | |
| MN | 14701. | 1294. | 24024. | 0. | 0. | 0. |
| MX | 2221308. | 88000. | 3058265. | 0. | 0. | 0. |
| SM | 250176944. | 18504650. | 390783008. | 0. | 0. | 0. |
| AV | 336259. | 24872. | 525246. | 0. | 0. | 0. |
| MONTHLY SUMMARY (FEB) | | | | | | |
| MN | 14701. | 1294. | 24024. | 0. | 0. | 0. |
| MX | 2129863. | 88000. | 2954196. | 0. | 0. | 0. |
| SM | 198617008. | 15088269. | 312333216. | 0. | 0. | 0. |
| AV | 295561. | 22453. | 464782. | 0. | 0. | 0. |
| MONTHLY SUMMARY (MAR) | | | | | | |
| MN | 14701. | 1294. | 24024. | 0. | 0. | 0. |
| MX | 1679385. | 88000. | 2435478. | 0. | 0. | 0. |
| SM | 141382352. | 11872891. | 228149040. | 0. | 0. | 0. |
| AV | 190030. | 15958. | 306652. | 0. | 0. | 0. |
| MONTHLY SUMMARY (APR) | | | | | | |
| MN | 14701. | 1294. | 24024. | 0. | 0. | 0. |
| MX | 1162773. | 88000. | 1828217. | 0. | 0. | 0. |
| SM | 59960400. | 5234311. | 97772424. | 0. | 0. | 0. |
| AV | 83278. | 7270. | 135795. | 0. | 0. | 0. |
| MONTHLY SUMMARY (MAY) | | | | | | |
| MN | 0. | 0. | 0. | 28972. | 52302. | 1100000. |
| MX | 0. | 0. | 0. | 690302. | 617853. | 1100000. |
| SM | 0. | 0. | 0. | 63169120. | 91591984. | 818400000. |
| AV | 0. | 0. | 0. | 84905. | 123108. | 1100000. |
| MONTHLY SUMMARY (JUN) | | | | | | |
| MN | 0. | 0. | 0. | 28972. | 52302. | 1100000. |
| MX | 0. | 0. | 0. | 1147748. | 733357. | 1100000. |
| SM | 0. | 0. | 0. | 173293552. | 171965344. | 792000000. |
| AV | 0. | 0. | 0. | 240685. | 238841. | 1100000. |
| MONTHLY SUMMARY (JUL) | | | | | | |
| MN | 0. | 0. | 0. | 28972. | 52302. | 1100000. |
| MX | 0. | 0. | 0. | 1173596. | 733298. | 1100000. |
| SM | 0. | 0. | 0. | 212880704. | 182022960. | 818400000. |
| AV | 0. | 0. | 0. | 286130. | 244655. | 1100000. |

| | HW-BOILE R LOAD BTU/HR ----(1) | HW-BOILE R ELECTRIC USE BTU/HR ----(3) | HW-BOILE R FUEL USE BTU/HR ----(4) | HERM-REC -CHLR LOAD BTU/HR ----(1) | HERM-REC -CHLR ELECTRIC USE BTU/HR ----(3) | HERM-REC -CHLR NOM CAP RUNNING BTU/HR ----(7) |
|-----------------------|---------------------------------------------|--------------------------------------------------------|----------------------------------------------------|-------------------------------------------------|------------------------------------------------------------|---------------------------------------------------------------|
| MONTHLY SUMMARY (AUG) | | | | | | |
| MN | 0. | 0. | 0. | 28972. | 52302. | 1100000. |
| MX | 0. | 0. | 0. | 1134693. | 730987. | 1100000. |
| SM | 0. | 0. | 0. | 221450800. | 195335056. | 818400000. |
| AV | 0. | 0. | 0. | 297649. | 262547. | 1100000. |
| MONTHLY SUMMARY (SEP) | | | | | | |
| MN | 0. | 0. | 0. | 28972. | 52302. | 1100000. |
| MX | 0. | 0. | 0. | 1125296. | 728824. | 1100000. |
| SM | 0. | 0. | 0. | 126559640. | 137403008. | 792000000. |
| AV | 0. | 0. | 0. | 175777. | 190838. | 1100000. |
| MONTHLY SUMMARY (OCT) | | | | | | |
| MN | 0. | 0. | 0. | 28972. | 52302. | 1100000. |
| MX | 1025830. | 88000. | 1665025. | 597904. | 591354. | 1100000. |
| SM | 24129002. | 2120178. | 39414348. | 38216732. | 64119148. | 918400000. |
| AV | 32431. | 2850. | 52976. | 51367. | 86182. | 1100000. |
| MONTHLY SUMMARY (NOV) | | | | | | |
| MN | 14701. | 1294. | 24024. | 0. | 0. | 0. |
| MX | 1477478. | 88000. | 2199719. | 0. | 0. | 0. |
| SM | 115500696. | 9801285. | 186905920. | 0. | 0. | 0. |
| AV | 160418. | 13613. | 259592. | 0. | 0. | 0. |
| MONTHLY SUMMARY (DEC) | | | | | | |
| MN | 14701. | 1294. | 24024. | 0. | 0. | 0. |
| MX | 1752960. | 88000. | 2520886. | 0. | 0. | 0. |
| SM | 223895312. | 17611436. | 355200192. | 0. | 0. | 0. |
| AV | 300935. | 23671. | 477420. | 0. | 0. | 0. |
| YEARLY SUMMARY | | | | | | |
| MN | 0. | 0. | 0. | 0. | 0. | 0. |
| MX | 2221308. | 88000. | 3058265. | 1173596. | 733357. | 1100000. |
| SM | 1013661696. | 30233024. | 1610558208. | 835570496. | 842437504. | 4857600000. |
| AV | 115715. | 9159. | 183854. | 95385. | 96169. | 554521. |

| MMDDHH | AHU-1 | AHU-1 | AHU-1 | AHU-1 | AHU-1 | AHU-2 | AHU-2 | AHU-2 |
|-----------------------|-------------------------------|-------------------------------|--------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|--------------------------|
| | TOT HTG COIL PWR BTU/HR | TOT CLG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR | TOT CLG COIL PWR BTU/HR | SUPPLY ELECTRIC KW |
| | ----(5) | ----(6) | ----(49) | ----(70) | ----(78) | ----(5) | ----(6) | ----(49) |
| MONTHLY SUMMARY (JAN) | | | | | | | | |
| MN | -406697. | 0. | 0.000 | 0. | -387286. | -504685. | 0. | 0.000 |
| MX | 0. | 0. | 6.295 | 292823. | 0. | 0. | 0. | 7.808 |
| SM | -44150900. | 0. | 1586.239 | 53094436. | -97596120. | -43183352. | 0. | 1967.566 |
| AV | -59343. | 0. | 2.132 | 71363. | -131178. | -58042. | 0. | 2.645 |
| MONTHLY SUMMARY (FEB) | | | | | | | | |
| MN | -406611. | 0. | 0.000 | 0. | -387286. | -504442. | 0. | 0.000 |
| MX | 0. | 0. | 6.295 | 227941. | 0. | 0. | 0. | 7.808 |
| SM | -36660284. | 0. | 1435.169 | 48079836. | -88301256. | -33663168. | 0. | 1780.178 |
| AV | -54554. | 0. | 2.136 | 71547. | -131401. | -50094. | 0. | 2.649 |
| MONTHLY SUMMARY (MAR) | | | | | | | | |
| MN | -354899. | 0. | 0.000 | 0. | -387286. | -400541. | 0. | 0.000 |
| MX | 0. | 0. | 6.295 | 286089. | 0. | 0. | 0. | 7.808 |
| SM | -24349440. | 0. | 1737.309 | 58855712. | -106890984. | -19104880. | 0. | 2154.953 |
| AV | -32728. | 0. | 2.335 | 79107. | -143671. | -25679. | 0. | 2.896 |
| MONTHLY SUMMARY (APR) | | | | | | | | |
| MN | -286605. | 0. | 0.000 | 0. | -387286. | -232579. | 0. | 0.000 |
| MX | 0. | 0. | 6.295 | 367257. | 0. | 0. | 0. | 7.808 |
| SM | -8675816. | 0. | 1586.239 | 56912784. | -97596120. | -5798812. | 0. | 1967.566 |
| AV | -12050. | 0. | 2.203 | 79046. | -135550. | -8054. | 0. | 2.733 |
| MONTHLY SUMMARY (MAY) | | | | | | | | |
| MN | 0. | 0. | 0.000 | 0. | 0. | 0. | 0. | 0.000 |
| MX | 0. | 113846. | 6.295 | 334662. | 0. | 0. | 174390. | 7.808 |
| SM | 0. | 7629046. | 1586.239 | 60017956. | 0. | 0. | 14796900. | 1967.566 |
| AV | 0. | 10254. | 2.132 | 80669. | 0. | 0. | 19888. | 2.645 |
| MONTHLY SUMMARY (JUN) | | | | | | | | |
| MN | 0. | 0. | 0.000 | 0. | 0. | 0. | 0. | 0.000 |
| MX | 0. | 211699. | 6.295 | 355107. | 0. | 0. | 280649. | 7.808 |
| SM | 0. | 27842368. | 1661.774 | 70304880. | 0. | 0. | 40541612. | 2061.259 |
| AV | 0. | 38670. | 2.308 | 97646. | 0. | 0. | 56308. | 2.863 |
| MONTHLY SUMMARY (JUL) | | | | | | | | |
| MN | 0. | 0. | 0.000 | 0. | 0. | 0. | 0. | 0.000 |
| MX | 0. | 231697. | 6.295 | 312370. | 0. | 0. | 307685. | 7.808 |
| SM | 0. | 34361964. | 1510.704 | 64716864. | 0. | 0. | 46190472. | 1873.872 |
| AV | 0. | 46185. | 2.031 | 86985. | 0. | 0. | 62084. | 2.519 |

| | AHU-1 | AHU-1 | AHU-1 | AHU-1 | AHU-1 | AHU-2 | AHU-2 | AHU-2 |
|-----------------------|-------------------------------|-------------------------------|--------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|--------------------------|
| | TOT HTG COIL PWR BTU/HR | TOT CLG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR | TOT CLG COIL PWR BTU/HR | SUPPLY ELECTRIC KW |
| | ---- (5) | ---- (6) | ---- (49) | ---- (70) | ---- (78) | ---- (5) | ---- (6) | ---- (49) |
| MONTHLY SUMMARY (AUG) | | | | | | | | |
| MN | 0. | 0. | 0.000 | 0. | 0. | 0. | 0. | 0.000 |
| MX | 0. | 223538. | 6.295 | 384747. | 0. | 0. | 293181. | 7.808 |
| SM | 0. | 35075348. | 1737.309 | 74098160. | 0. | 0. | 48665088. | 2154.953 |
| AV | 0. | 47144. | 2.335 | 99594. | 0. | 0. | 65410. | 2.896 |
| MONTHLY SUMMARY (SEP) | | | | | | | | |
| MN | 0. | 0. | 0.000 | 0. | 0. | 0. | 0. | 0.000 |
| MX | 0. | 175879. | 6.295 | 305369. | 0. | 0. | 238295. | 7.808 |
| SM | 0. | 19477366. | 1586.239 | 64185548. | 0. | 0. | 29951984. | 1967.566 |
| AV | 0. | 27052. | 2.203 | 89147. | 0. | 0. | 41600. | 2.733 |
| MONTHLY SUMMARY (OCT) | | | | | | | | |
| MN | -218146. | 0. | 0.000 | 0. | -387286. | -198894. | 0. | 0.000 |
| MX | 0. | 96055. | 6.295 | 311452. | 0. | 0. | 155634. | 7.808 |
| SM | -3380772. | 3049433. | 1510.704 | 56091108. | -51121784. | -2083858. | 7254829. | 1873.872 |
| AV | -4544. | 4099. | 2.031 | 75391. | -68712. | -2801. | 9751. | 2.519 |
| MONTHLY SUMMARY (NOV) | | | | | | | | |
| MN | -322434. | 0. | 0.000 | 0. | -387286. | -385073. | 0. | 0.000 |
| MX | 0. | 0. | 6.295 | 538989. | 0. | 0. | 0. | 7.808 |
| SM | -19058886. | 0. | 1510.704 | 59268940. | -92948688. | -16589460. | 0. | 1873.872 |
| AV | -26471. | 0. | 2.098 | 82318. | -129095. | -23041. | 0. | 2.603 |
| MONTHLY SUMMARY (DEC) | | | | | | | | |
| MN | -354803. | 0. | 0.000 | 0. | -387286. | -424321. | 0. | 0.000 |
| MX | 0. | 0. | 6.295 | 237466. | 0. | 0. | 0. | 7.808 |
| SM | -39055316. | 0. | 1586.239 | 53106100. | -97596120. | -38046148. | 0. | 1967.566 |
| AV | -52494. | 0. | 2.132 | 71379. | -131178. | -51137. | 0. | 2.645 |
| YEARLY SUMMARY | | | | | | | | |
| MN | -406697. | 0. | 0.000 | 0. | -387286. | -504685. | 0. | 0.000 |
| MX | 0. | 231697. | 6.295 | 538989. | 0. | 0. | 307685. | 7.808 |
| SM | -175331424. | 127435520. | 19034.869 | 718732352. | -632051072. | -158469664. | 187400896. | 23610.789 |
| AV | -20015. | 14547. | 2.173 | 82047. | -72152. | -18090. | 21393. | 2.695 |

| MMDDHH | AHU-2 | AHU-2 | AHU-3 | AHU-3 | AHU-3 | AHU-3 | AHU-3 | AHU-4 |
|-----------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|--------------------------|-------------------------------|-------------------------------|-------------------------------|
| | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR | TOT CLG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR |
| | ---- (70) | ---- (78) | ---- (5) | ---- (6) | ---- (49) | ---- (70) | ---- (78) | ---- (5) |
| MONTHLY SUMMARY (JAN) | | | | | | | | |
| MN | 0. | -480388. | -578800. | 0. | 0.000 | 0. | -550935. | -307946. |
| MX | 776620. | 0. | 0. | 0. | 8.954 | 1081096. | 0. | 0. |
| SM | 66553156. | -121057904. | -50079016. | 0. | 2256.509 | 76552152. | -138835664. | -32659280. |
| AV | 89453. | -162712. | -67311. | 0. | 3.033 | 102893. | -186607. | -43897. |
| MONTHLY SUMMARY (FEB) | | | | | | | | |
| MN | 0. | -480388. | -578510. | 0. | 0.000 | 0. | -550935. | -307869. |
| MX | 331906. | 0. | 0. | 0. | 8.954 | 401563. | 0. | 0. |
| SM | 60097688. | -109528576. | -38456120. | 0. | 2041.603 | 69018992. | -125613216. | -25581350. |
| AV | 89431. | -162989. | -57226. | 0. | 3.038 | 102707. | -186924. | -38067. |
| MONTHLY SUMMARY (MAR) | | | | | | | | |
| MN | 0. | -480388. | -462111. | 0. | 0.000 | 0. | -550935. | -267456. |
| MX | 466124. | 0. | 0. | 0. | 3.954 | 589712. | 0. | 0. |
| SM | 74631112. | -132587232. | -22913564. | 0. | 2471.414 | 86071640. | -152058096. | -17303406. |
| AV | 100311. | -178209. | -30798. | 0. | 3.322 | 115688. | -204379. | -23257. |
| MONTHLY SUMMARY (APR) | | | | | | | | |
| MN | 0. | -480388. | -276980. | 0. | 0.000 | 0. | -550935. | -174686. |
| MX | 505801. | 0. | 0. | 0. | 3.954 | 583771. | 0. | 0. |
| SM | 74895456. | -121057904. | -7249838. | 0. | 2256.509 | 86381104. | -138835664. | -6209848. |
| AV | 104021. | -168136. | -10069. | 0. | 3.134 | 119974. | -192827. | -8625. |
| MONTHLY SUMMARY (MAY) | | | | | | | | |
| MN | 0. | 0. | 0. | 0. | 0.000 | 0. | 0. | 0. |
| MX | 413912. | 0. | 0. | 197365. | 3.954 | 490825. | 0. | 0. |
| SM | 76365440. | 0. | 0. | 15658864. | 2256.509 | 87563040. | 0. | 0. |
| AV | 102642. | 0. | 0. | 21047. | 3.033 | 117692. | 0. | 0. |
| MONTHLY SUMMARY (JUN) | | | | | | | | |
| MN | 0. | 0. | 0. | 0. | 0.000 | 0. | 0. | 0. |
| MX | 469195. | 0. | 0. | 313917. | 8.954 | 556570. | 0. | 0. |
| SM | 87028104. | 0. | 0. | 44061122. | 2363.961 | 99395576. | 0. | 0. |
| AV | 120872. | 0. | 0. | 61196. | 3.283 | 138049. | 0. | 0. |
| MONTHLY SUMMARY (JUL) | | | | | | | | |
| MN | 0. | 0. | 0. | 0. | 0.000 | 0. | 0. | 0. |
| MX | 197919. | 0. | 0. | 334079. | 8.954 | 456816. | 0. | 0. |
| SM | 80071984. | 0. | 0. | 50543032. | 2149.056 | 90965296. | 0. | 0. |
| AV | 107624. | 0. | 0. | 67934. | 2.889 | 122265. | 0. | 0. |

| | AHU-2 | AHU-2 | AHU-3 | AHU-3 | AHU-3 | AHU-3 | AHU-3 | AHU-4 |
|-----------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|--------------------------|-------------------------------|-------------------------------|-------------------------------|
| | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR | TOT CLG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR |
| | ---- (70) | ---- (78) | ---- (5) | ---- (6) | ---- (49) | ---- (70) | ---- (78) | ---- (5) |
| MONTHLY SUMMARY (AUG) | | | | | | | | |
| MN | 0. | 0. | 0. | 0. | 0.000 | 0. | 0. | 0. |
| MX | 461587. | 0. | 0. | 329037. | 8.954 | 694468. | 0. | 0. |
| SM | 91524528. | 0. | 0. | 53278688. | 2471.414 | 104410968. | 0. | 0. |
| AV | 123017. | 0. | 0. | 71611. | 3.322 | 140364. | 0. | 0. |
| MONTHLY SUMMARY (SEP) | | | | | | | | |
| MN | 0. | 0. | 0. | 0. | 0.000 | 0. | 0. | 0. |
| MX | 480889. | 0. | 0. | 275775. | 8.954 | 591749. | 0. | 0. |
| SM | 80467360. | 0. | 0. | 32195992. | 2256.509 | 92360280. | 0. | 0. |
| AV | 111760. | 0. | 0. | 44717. | 3.134 | 128278. | 0. | 0. |
| MONTHLY SUMMARY (OCT) | | | | | | | | |
| MN | 0. | -480388. | -233498. | 0. | 0.000 | 0. | -550935. | -154023. |
| MX | 459724. | 0. | 0. | 175971. | 8.954 | 545907. | 0. | 0. |
| SM | 71976168. | -63411268. | -2844316. | 7656847. | 2149.056 | 83123232. | -72723424. | -2595228. |
| AV | 96742. | -85230. | -3823. | 10291. | 2.889 | 111725. | -97747. | -3488. |
| MONTHLY SUMMARY (NOV) | | | | | | | | |
| MN | 0. | -480388. | -432112. | 0. | 0.000 | 0. | -550935. | -237147. |
| MX | 721337. | 0. | 0. | 0. | 8.954 | 340127. | 0. | 0. |
| SM | 76428928. | -115293240. | -19802990. | 0. | 2149.056 | 88193720. | -132224440. | -14009325. |
| AV | 106151. | -160130. | -27504. | 0. | 2.985 | 122491. | -183645. | -19457. |
| MONTHLY SUMMARY (DEC) | | | | | | | | |
| MN | 0. | -480388. | -498183. | 0. | 0.000 | 0. | -550935. | -282787. |
| MX | 339827. | 0. | 0. | 0. | 8.954 | 425281. | 0. | 0. |
| SM | 65968808. | -121057904. | -44451796. | 0. | 2256.509 | 75616472. | -138835664. | -29063630. |
| AV | 88668. | -162712. | -59747. | 0. | 3.033 | 101635. | -186607. | -39064. |
| YEARLY SUMMARY | | | | | | | | |
| MN | 0. | -480388. | -578800. | 0. | 0.000 | 0. | -550935. | -307946. |
| MX | 776620. | 0. | 0. | 334079. | 8.954 | 1081096. | 0. | 0. |
| SM | 906008768. | -783994048. | -185797648. | 203394544. | 27078.102 | 1039672448. | -399126144. | -127422080. |
| AV | 103426. | -89497. | -21210. | 23219. | 3.091 | 118684. | -102640. | -14546. |

| MMDDHH | AHU-4 | AHU-4 | AHU-4 | AHU-4 |
|-----------------------|-------------------------------|--------------------------|-------------------------------|-------------------------------|
| | TOT CLG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR |
| | ---- (6) | ---- (49) | ---- (70) | ---- (78) |
| MONTHLY SUMMARY (JAN) | | | | |
| MN | 0. | 0.000 | 0. | -293224. |
| MX | 0. | 4.766 | 751391. | 0. |
| SM | 0. | 1200.981 | 40796724. | -73892512. |
| AV | 0. | 1.614 | 54834. | -99318. |
| MONTHLY SUMMARY (FEB) | | | | |
| MN | 0. | 0.000 | 0. | -293224. |
| MX | 0. | 4.766 | 236072. | 0. |
| SM | 0. | 1086.602 | 36599784. | -66855132. |
| AV | 0. | 1.617 | 54464. | -99487. |
| MONTHLY SUMMARY (MAR) | | | | |
| MN | 0. | 0.000 | 0. | -293224. |
| MX | 0. | 4.766 | 374278. | 0. |
| SM | 0. | 1315.360 | 45933120. | -80929888. |
| AV | 0. | 1.768 | 61738. | -108777. |
| MONTHLY SUMMARY (APR) | | | | |
| MN | 0. | 0.000 | 0. | -293224. |
| MX | 0. | 4.766 | 358052. | 0. |
| SM | 0. | 1200.981 | 45712848. | -73892512. |
| AV | 0. | 1.668 | 63490. | -102628. |
| MONTHLY SUMMARY (MAY) | | | | |
| MN | 0. | 0.000 | 0. | 0. |
| MX | 100542. | 4.766 | 334224. | 0. |
| SM | 5246523. | 1200.981 | 46668648. | 0. |
| AV | 8396. | 1.614 | 62727. | 0. |
| MONTHLY SUMMARY (JUN) | | | | |
| MN | 0. | 0.000 | 0. | 0. |
| MX | 166114. | 4.766 | 335856. | 0. |
| SM | 21230076. | 1258.171 | 53007532. | 0. |
| AV | 29486. | 1.747 | 73622. | 0. |
| MONTHLY SUMMARY (JUL) | | | | |
| MN | 0. | 0.000 | 0. | 0. |
| MX | 176533. | 4.766 | 235639. | 0. |
| SM | 25789556. | 1143.792 | 47840804. | 0. |
| AV | 34663. | 1.537 | 64302. | 0. |

| | AHU-4 | AHU-4 | AHU-4 | AHU-4 |
|-----------------------|-------------------------------|--------------------------|-------------------------------|-------------------------------|
| | TOT CLG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | COOLING CAPACITY BTU/HR | HEATING CAPACITY BTU/HR |
| | ---- (6) | ----(49) | ---- (70) | ---- (78) |
| MONTHLY SUMMARY (AUG) | | | | |
| MN | 0. | 0.000 | 0. | 0. |
| MX | 171903. | 4.766 | 396167. | 0. |
| SM | 26616668. | 1315.360 | 55357224. | 0. |
| AV | 35775. | 1.768 | 74405. | 0. |
| MONTHLY SUMMARY (SEP) | | | | |
| MN | 0. | 0.000 | 0. | 0. |
| MX | 145564. | 4.766 | 370315. | 0. |
| SM | 14739209. | 1200.981 | 50018172. | 0. |
| AV | 20471. | 1.668 | 69470. | 0. |
| MONTHLY SUMMARY (OCT) | | | | |
| MN | 0. | 0.000 | 0. | -293224. |
| MX | 80761. | 4.766 | 307317. | 0. |
| SM | 2771471. | 1143.792 | 44808444. | -38705596. |
| AV | 3725. | 1.537 | 60226. | -52024. |
| MONTHLY SUMMARY (NOV) | | | | |
| MN | 0. | 0.000 | 0. | -293224. |
| MX | 0. | 4.766 | 453351. | 0. |
| SM | 0. | 1143.792 | 47193552. | -70373824. |
| AV | 0. | 1.589 | 65547. | -97741. |
| MONTHLY SUMMARY (DEC) | | | | |
| MN | 0. | 0.000 | 0. | -293224. |
| MX | 0. | 4.766 | 260211. | 0. |
| SM | 0. | 1200.981 | 40027096. | -73892512. |
| AV | 0. | 1.614 | 53800. | -99318. |
| YEARLY SUMMARY | | | | |
| MN | 0. | 0.000 | 0. | -293224. |
| MX | 176533. | 4.766 | 751391. | 0. |
| SM | 97393496. | 14411.776 | 553963904. | -478541984. |
| AV | 11118. | 1.645 | 63238. | -54628. |

| MONTH | S I T E E N E R G Y | | | | | | | | | | | | SOURCE |
|-------|-----------------------|--------------------------|-------------------------|------------------|-----------------------------|--------------------------|--------------------------|--------------------------|--------------------------|------------------------|------------------------|-------------------------|---------------------------|
| | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | |
| | TOTAL HEAT LOAD | TOTAL COOLING LOAD | TOTAL ELECTR LOAD | RCVRED ENERGY | WASTED RCVRABL ENERGY | FUEL INPUT COOLING | ELEC INPUT COOLING | FUEL INPUT HEATING | ELEC INPUT HEATING | FUEL INPUT ELECT | TOTAL FUEL INPUT | TOTAL SITE ENERGY | TOTAL SOURCE ENERGY |
| JAN | 180.3 | 0.0 | 115.5 33.3E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 286.7 | 19.8 5.8E | 0.0 | 286.7 | 402.2 | 633.6 |
| FEB | 143.4 | 0.0 | 103.2 30.2E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 229.6 | 16.7 4.9E | 0.0 | 229.6 | 332.8 | 539.5 |
| MAR | 93.6 | 0.0 | 117.2 34.3E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 151.9 | 13.5 4.0E | 0.0 | 151.9 | 269.1 | 504.0 |
| APR | 37.5 | 0.0 | 103.9 30.4E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 61.3 | 8.6 2.5E | 0.0 | 61.3 | 165.2 | 373.4 |
| MAY | 0.0 | 59.8 | 192.2 56.3E | 0.0 | 0.0 | 0.0 | 96.6 28.3E | 0.0 | 0.0 0.0E | 0.0 | 0.0 | 192.2 | 577.3 |
| JUN | 0.0 | 148.6 | 269.3 78.9E | 0.0 | 0.0 | 0.0 | 170.0 49.8E | 0.0 | 0.0 0.0E | 0.0 | 0.0 | 269.3 | 808.8 |
| JUL | 0.0 | 172.3 | 264.5 77.5E | 0.0 | 0.0 | 0.0 | 172.8 50.6E | 0.0 | 0.0 0.0E | 0.0 | 0.0 | 264.5 | 794.3 |
| AUG | 0.0 | 179.1 | 291.3 85.3E | 0.0 | 0.0 | 0.0 | 187.6 54.9E | 0.0 | 0.0 0.0E | 0.0 | 0.0 | 291.3 | 874.8 |
| SEP | 0.0 | 111.3 | 237.4 69.5E | 0.0 | 0.0 | 0.0 | 142.1 41.6E | 0.0 | 0.0 0.0E | 0.0 | 0.0 | 237.4 | 712.9 |
| OCT | 16.0 | 36.2 | 165.1 48.3E | 0.0 | 0.0 | 0.0 | 69.2 20.3E | 26.2 | 4.3 1.2E | 0.0 | 26.2 | 191.2 | 521.9 |
| NOV | 79.0 | 0.0 | 103.4 30.3E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 123.4 | 12.1 3.6E | 0.0 | 128.4 | 231.9 | 439.1 |
| DEC | 160.5 | 0.0 | 114.6 33.6E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 253.7 | 18.9 5.5E | 0.0 | 258.7 | 373.3 | 602.8 |
| | 710.4 | 707.3 | 2077.8 608.5E | 0.0 | 0.0 | 0.0 | 838.2 245.5E | 1142.8 | 94.0 27.5E | 0.0 | 1142.8 | 3220.6 | 7382.4 |

NOTE-- ALL ENTRIES ARE IN MBTU EXCEPT
 ENTRIES FOLLOWED BY E ARE IN MWH (THOUSANDS OF KWH)

ENTECH ENGINEERING
 READING, PA 19603
 REPORT- PS-B MONTHLY PEAK AND TOTAL ENERGY USE

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
 FT. GEORGE G. MEADE UMCS STUDY

DOB-2.1D 6/13/1996 8: 6: 3 PDL RUN 1
 BUILDING 4411 - NEW CONDITIONS
 WEATHER FILE- BALTIMORE, MD

| MO | UTILITY- | ELECTRICITY | NATURAL-GAS |
|-----|--------------|-------------|-------------|
| | TOTAL (MBTU) | 115.505 | 286.729 |
| JAN | PEAK (KBTU) | 466.855 | 2816.991 |
| | DY/HR | 31/17 | 17/ 7 |
| | TOTAL (MBTU) | 103.207 | 229.561 |
| FEB | PEAK (KBTU) | 466.855 | 2697.603 |
| | DY/HR | 28/ 7 | 14/ 7 |
| | TOTAL (MBTU) | 117.247 | 151.895 |
| MAR | PEAK (KBTU) | 466.855 | 2224.134 |
| | DY/HR | 15/ 7 | 7/ 7 |
| | TOTAL (MBTU) | 103.943 | 61.299 |
| APR | PEAK (KBTU) | 463.105 | 1564.500 |
| | DY/HR | 11/ 7 | 11/ 7 |
| | TOTAL (MBTU) | 192.239 | 0.000 |
| MAY | PEAK (KBTU) | 982.124 | 0.000 |
| | DY/HR | 6/17 | 31/ 1 |
| | TOTAL (MBTU) | 269.317 | 0.000 |
| JUN | PEAK (KBTU) | 1091.754 | 0.000 |
| | DY/HR | 10/16 | 30/ 1 |
| | TOTAL (MBTU) | 264.504 | 0.000 |
| JUL | PEAK (KBTU) | 1113.855 | 0.000 |
| | DY/HR | 25/14 | 31/ 1 |
| | TOTAL (MBTU) | 291.318 | 0.000 |
| AUG | PEAK (KBTU) | 1100.939 | 0.000 |
| | DY/HR | 18/17 | 31/ 1 |
| | TOTAL (MBTU) | 237.395 | 0.000 |
| SEP | PEAK (KBTU) | 1064.885 | 0.000 |
| | DY/HR | 1/17 | 30/ 1 |
| | TOTAL (MBTU) | 165.079 | 26.166 |
| OCT | PEAK (KBTU) | 954.591 | 1335.949 |
| | DY/HR | 13/16 | 17/ 7 |
| | TOTAL (MBTU) | 103.440 | 128.429 |
| NOV | PEAK (KBTU) | 466.855 | 2089.269 |
| | DY/HR | 28/ 9 | 25/ 7 |
| | TOTAL (MBTU) | 114.599 | 258.684 |
| DEC | PEAK (KBTU) | 466.855 | 2311.969 |
| | DY/HR | 27/11 | 5/ 7 |
| | ONE YEAR | 2077.793 | 1142.762 |
| | USE/PEAK | 1113.855 | 2816.991 |

ENTECH ENGINEERING
READING, PA 19603
REPORT- PS-D PLANT LOADS SATISFIED

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
FT. GEORGE G. MEADE UMCS STUDY

DOB-2.1D 5/13/1996 8: 6: 3 PDL RUN 1
BUILDING 4411 - NEW CONDITIONS
WEATHER FILE- BALTIMORE, MD

| HEATING LOADS | MBTU SUPPLIED | PCT OF TOTAL LOAD |
|---------------------|---------------|-------------------|
| ----- | ----- | ----- |
| HW-BOILER | 710.4 | 100.0 |
| | ----- | ----- |
| LOAD SATISFIED | 710.4 | 100.0 |
| TOTAL LOAD ON PLANT | 710.4 | |

| COOLING LOADS | MBTU SUPPLIED | PCT OF TOTAL LOAD |
|---------------------|---------------|-------------------|
| ----- | ----- | ----- |
| HERM-REC-CHLR | 707.4 | 100.0 |
| | ----- | ----- |
| LOAD SATISFIED | 707.4 | 100.0 |
| TOTAL LOAD ON PLANT | 707.4 | |

| ELECTRICAL LOADS | MBTU SUPPLIED | PCT OF TOTAL LOAD |
|---------------------|---------------|-------------------|
| ----- | ----- | ----- |
| ELECTRICITY | 2077.8 | 100.0 |
| | ----- | ----- |
| LOAD SATISFIED | 2077.8 | 100.0 |
| TOTAL LOAD ON PLANT | 2077.8 | |

EMTECH ENGINEERING
READING, PA 19603
REPORT- PS-D PLANT LOADS SATISFIED

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
PT. GEORGE G. MEADE UMCS STUDY

DOB-2.1D 6/13/1996 8: 6: 3 PDL RUN 1
BUILDING 4411 - NEW CONDITIONS
WEATHER FILE- BALTIMORE, MD
----- (CONTINUED) -----

SUMMARY OF LOADS MET

| TYPE OF LOAD | TOTAL LOAD (MBTU) | LOAD SATISFIED (MBTU) | TOTAL OVERLOAD (MBTU) | PEAK OVERLOAD (MBTU) | HOURS OVERLOADED |
|------------------|-------------------------|-----------------------------|-----------------------------|----------------------------|---------------------|
| HEATING LOADS | 710.4 | 710.4 | 0.000 | 0.000 | 0 |
| COOLING LOADS | 707.4 | 707.4 | 0.000 | 0.000 | 0 |
| ELECTRICAL LOADS | 2077.8 | 2077.8 | 0.000 | 0.000 | 0 |

ENTECH ENGINEERING
 READING, PA 19603
 REPORT- PS-H EQUIPMENT USE STATISTICS

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
 FT. GEORGE G. MEADE UMCS STUDY

DOR-2.1D 6/13/1996 8: 6: 3 PDL RUN 1
 BUILDING 4411 - NEW CONDITIONS
 WEATHER FILE- BALTIMORE, MD

| EQUIPMENT | AVG OPER RATIO | MAX LOAD (MBTU) | MON | | SIZE OPER | | SIZE OPER | | SIZE OPER | | SIZE OPER | |
|---------------|----------------------|-----------------------|-----|----|-----------|-------|-----------|-----|-----------|-----|-----------|-----|
| | | | DAY | HR | (MBTU) | HRS | (MBTU) | HRS | (MBTU) | HRS | (MBTU) | HRS |
| HW-BOILER | 0.038 | 2.010 | 1 | 17 | 7 | 4.000 | 4728 | | | | | |
| HERM-REC-CHLR | 0.146 | 1.059 | 7 | 25 | 7 | 1.100 | 4416 | | | | | |

E Q U I P M E N T T O T A L S

| | | | |
|-----------------------|-------|-------|-------|
| HW-BOILER | 189.8 | | |
| NOMINAL SIZE (MBTU) | | 4.000 | |
| NUMBER INSTALLED | | | 2 |
| FIRST COST (K\$) | 179.6 | 179.6 | |
| ANNUAL COST (K\$) | 4.6 | 4.6 | |
| CYCLICAL COST (K\$) | 5.6 | 5.6 | |
| -----TOTAL----- (K\$) | | | 189.8 |
| HERM-REC-CHLR | 36.5 | | |
| NOMINAL SIZE (MBTU) | | 1.100 | |
| NUMBER INSTALLED | | | 1 |
| FIRST COST (K\$) | 24.2 | 24.2 | |
| ANNUAL COST (K\$) | 2.3 | 2.3 | |
| CYCLICAL COST (K\$) | 10.1 | 10.1 | |
| -----TOTAL----- (K\$) | | | 36.5 |
| ----- | | | |
| EQUIPMENT TOTAL | 226.3 | | |

| ENERGY TYPE IN SITE MBTU - | ELECTRICITY | NATURAL-GAS |
|-------------------------------|-------------|-------------|
| CATEGORY OF USE | | |
| SPACE HEAT | 58.97 | 1142.81 |
| SPACE COOL | 787.28 | 0.00 |
| HVAC AUX | 373.27 | 0.00 |
| DOM HOT WTR | 0.00 | 0.00 |
| AUX SOLAR | 0.00 | 0.00 |
| LIGHTS | 667.58 | 0.00 |
| VERT TRANS | 0.00 | 0.00 |
| MISC EQUIP | 190.73 | 0.00 |
| | ----- | ----- |
| TOTAL | 2077.83 | 1142.81 |

TOTAL SITE ENERGY 3220.56 MBTU 96.9 KBTU/SQFT-YR GROSS-AREA 96.9 KBTU/SQFT-YR NET-AREA
 TOTAL SOURCE ENERGY 7382.38 MBTU 222.2 KBTU/SQFT-YR GROSS-AREA 222.2 KBTU/SQFT-YR NET-AREA

PERCENT OF HOURS ANY SYSTEM ZONE OUTSIDE OF THROTTLING RANGE = 6.0
 PERCENT OF HOURS ANY PLANT LOAD NOT SATISFIED = 0.0

NOTE ELECTRICITY AND/OR FUEL USED TO GENERATE ELECTRICITY IS APPORTIONED BASED
 ON THE YEARLY DEMAND. ALL OTHER ENERGY TYPES ARE APPORTIONED HOURLY.

| MMDDHH | HW-BOILE R LOAD BTU/HR | HW-BOILE R ELECTRIC USE BTU/HR | HW-BOILE R FUEL USE BTU/HR | HERM-REC -CHLR LOAD BTU/HR | HERM-REC -CHLR ELECTRIC USE BTU/HR | HERM-REC -CHLR NOM CAP RUNNING BTU/HR |
|-----------------------|---------------------------------|--------------------------------------------|----------------------------------------|-------------------------------------|------------------------------------------------|---------------------------------------------------|
| | ---- (1) | ---- (3) | ---- (4) | ---- (1) | ---- (3) | ---- (7) |
| MONTHLY SUMMARY (JAN) | | | | | | |
| MN | 13302. | 1171. | 21737. | 0. | 0. | 0. |
| MX | 2009854. | 88000. | 2816991. | 0. | 0. | 0. |
| SM | 180313280. | 14316420. | 286727904. | 0. | 0. | 0. |
| AV | 242357. | 19243. | 385387. | 0. | 0. | 0. |
| MONTHLY SUMMARY (FEB) | | | | | | |
| MN | 13302. | 1171. | 21737. | 0. | 0. | 0. |
| MX | 1905933. | 88000. | 2697603. | 0. | 0. | 0. |
| SM | 143395008. | 11681887. | 229560016. | 0. | 0. | 0. |
| AV | 213385. | 17384. | 341607. | 0. | 0. | 0. |
| MONTHLY SUMMARY (MAR) | | | | | | |
| MN | 13302. | 1171. | 21737. | 0. | 0. | 0. |
| MX | 1498308. | 88000. | 2224134. | 0. | 0. | 0. |
| SM | 93567888. | 8034799. | 151894144. | 0. | 0. | 0. |
| AV | 125763. | 10799. | 204159. | 0. | 0. | 0. |
| MONTHLY SUMMARY (APR) | | | | | | |
| MN | 13302. | 1171. | 21737. | 0. | 0. | 0. |
| MX | 957385. | 84250. | 1564500. | 0. | 0. | 0. |
| SM | 37511644. | 3301025. | 61299256. | 0. | 0. | 0. |
| AV | 52100. | 4585. | 85138. | 0. | 0. | 0. |
| MONTHLY SUMMARY (MAY) | | | | | | |
| MN | 0. | 0. | 0. | 20770. | 37495. | 1100000. |
| MX | 0. | 0. | 0. | 597405. | 599127. | 1100000. |
| SM | 0. | 0. | 0. | 59784324. | 87969448. | 818400000. |
| AV | 0. | 0. | 0. | 80355. | 118239. | 1100000. |
| MONTHLY SUMMARY (JUN) | | | | | | |
| MN | 0. | 0. | 0. | 20770. | 37495. | 1100000. |
| MX | 0. | 0. | 0. | 991827. | 708756. | 1100000. |
| SM | 0. | 0. | 0. | 148629648. | 161680800. | 792000000. |
| AV | 0. | 0. | 0. | 206430. | 224557. | 1100000. |
| MONTHLY SUMMARY (JUL) | | | | | | |
| MN | 0. | 0. | 0. | 20770. | 37495. | 1100000. |
| MX | 0. | 0. | 0. | 1058615. | 730857. | 1100000. |
| SM | 0. | 0. | 0. | 172337968. | 164246784. | 818400000. |
| AV | 0. | 0. | 0. | 231637. | 220762. | 1100000. |

| | HW-BOILE R LOAD BTU/HR | HW-BOILE R ELECTRIC USE BTU/HR | HW-BOILE R FUEL USE BTU/HR | HERM-REC -CHLR LOAD BTU/HR | HERM-REC -CHLR ELECTRIC USE BTU/HR | HERM-REC -CHLR NOM CAP RUNNING BTU/HR |
|-----------------------|---------------------------------|--------------------------------------------|----------------------------------------|-------------------------------------|------------------------------------------------|---------------------------------------------------|
| | ----(1) | ----(3) | ----(4) | ----(1) | ----(3) | ----(7) |
| MONTHLY SUMMARY (AUG) | | | | | | |
| MN | 0. | 0. | 0. | 20770. | 37495. | 1100000. |
| MX | 0. | 0. | 0. | 1038430. | 717941. | 1100000. |
| SM | 0. | 0. | 0. | 179088736. | 179023936. | 818400000. |
| AV | 0. | 0. | 0. | 240711. | 240624. | 1100000. |
| MONTHLY SUMMARY (SEP) | | | | | | |
| MN | 0. | 0. | 0. | 20770. | 37495. | 1100000. |
| MX | 0. | 0. | 0. | 849815. | 681888. | 1100000. |
| SM | 0. | 0. | 0. | 111319032. | 133770608. | 792000000. |
| AV | 0. | 0. | 0. | 154610. | 185793. | 1100000. |
| MONTHLY SUMMARY (OCT) | | | | | | |
| MN | 0. | 0. | 0. | 20770. | 37495. | 1100000. |
| MX | 817524. | 71942. | 1335949. | 529191. | 571593. | 1100000. |
| SM | 16012083. | 1409063. | 26165978. | 36185580. | 60569460. | 818400000. |
| AV | 21522. | 1894. | 35169. | 48637. | 81411. | 1100000. |
| MONTHLY SUMMARY (NOV) | | | | | | |
| MN | 13302. | 1171. | 21737. | 0. | 0. | 0. |
| MX | 1383478. | 88000. | 2089269. | 0. | 0. | 0. |
| SM | 79038000. | 6810759. | 128428648. | 0. | 0. | 0. |
| AV | 109775. | 9459. | 178373. | 0. | 0. | 0. |
| MONTHLY SUMMARY (DEC) | | | | | | |
| MN | 13302. | 1171. | 21737. | 0. | 0. | 0. |
| MX | 1573395. | 88000. | 2311969. | 0. | 0. | 0. |
| SM | 160513520. | 13410820. | 258681744. | 0. | 0. | 0. |
| AV | 215744. | 18025. | 347691. | 0. | 0. | 0. |
| YEARLY SUMMARY | | | | | | |
| MN | 0. | 0. | 0. | 0. | 0. | 0. |
| MX | 2009854. | 88000. | 2816991. | 1058615. | 730857. | 1100000. |
| SM | 710351424. | 58964776. | 1142757760. | 707345280. | 787261056. | 4857600000. |
| AV | 81090. | 6731. | 130452. | 80747. | 89870. | 554521. |

FT. MEADE, MARYLAND

Building: 4418

Square feet 7,953

| Exterior Wall | |
|-------------------|---------|
| Components | R-Value |
| Outside Surface | 0.17 |
| Brick | 0.44 |
| Concrete block | 1.72 |
| Air Space | 1.10 |
| 3 1/2" Insulation | 11.00 |
| Gyp. Board | 0.56 |
| Inside Surface | 0.68 |
| | |
| Total R-Value | 15.67 |
| Total U-Value | 0.06 |

| Exterior Roof | |
|-------------------|---------|
| Components | R-Value |
| Outside Surface | 0.17 |
| Shingles | 0.44 |
| Wood Deck | 0.93 |
| Air Space | 1.10 |
| 3 1/2" Insulation | 11.00 |
| Plaster | 0.56 |
| Inside Surface | 0.61 |
| | |
| Total R-Value | 14.81 |
| Total U-Value | 0.07 |

| Calculated Total Area | |
|------------------------------|------|
| No. of Floors | 1 |
| Avg. Floor to Floor Height | 12 |
| No. of Basement Levels | 1 |
| Gross Floor Area | 7953 |
| Roof Area | 6530 |
| Estimated Infiltration (cfm) | 750 |
| Gross Wall Area | 6050 |
| Door Area | 100 |
| Gross Window Area | 600 |
| Other | |
| Net Wall Area | 5350 |

| Window and Door | |
|-----------------------------|---------|
| | U-Value |
| Window Single Pane W/Storm | |
| Window Single Pane Wo/Storm | |
| Window Double Pane | 0.55 |
| Skylight | |
| Glass Block | |
| Other | |
| Door Type 1 | 0.50 |
| Door Type 2 | |
| Door Type 3 | |

$$U_oA_o = (5350 \cdot 0.06) + (6530 \cdot 0.07) + (600 \cdot 0.55) + (100 \cdot 0.50) = 1158.1$$

**FT. MEADE, MARYLAND
EQUIPMENT SCHEDULE**

BUILDING NO. 4418

Page 1 of 1

| EQUIPMENT | SYSTEM NUMBER | | | | | | | |
|------------------------------|----------------------------------|---------|---|---|---|---|---|---|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| Equipment Name | AHU-1 | Boiler | | | | | | |
| COOLING: | | | | | | | | |
| Type of Cooling | 1 | | | | | | | |
| Air Side | 1 | | | | | | | |
| Location in Building | | | | | | | | |
| Area Sq. Feet | 6530 | | | | | | | |
| Supply CFM | 6500 | | | | | | | |
| Supply Fan HP | 5 | | | | | | | |
| O.A. CFM or % | 700 | | | | | | | |
| Return CFM | | | | | | | | |
| Return Fan HP | | | | | | | | |
| Chiller Tonnage | 15 | | | | | | | |
| Tower or Condenser Fan HP | | | | | | | | |
| Condenser Pump HP | | | | | | | | |
| Chilled Water Pump HP | | | | | | | | |
| HEATING: | | | | | | | | |
| Type of Heating | | 1 | | | | | | |
| Source | | 4 | | | | | | |
| MBTUH | | 472/354 | | | | | | |
| Hot Water Pump HP | | 3/4 | | | | | | |
| Condensate Pump HP | | | | | | | | |
| ADDITIONAL: | | | | | | | | |
| Aux. HP Cooling | | | | | | | | |
| Aux. HP Heating | | | | | | | | |
| Operating Schedule Hrs./Week | | | | | | | | |
| Type of Cooling | Type of Heating | | | | | | | |
| (1) Air Cooled DX | (1) Boiler Hot Water | | | | | | | |
| (2) Water Cooled DX | (2) Boiler Steam | | | | | | | |
| (3) Air Cooled Chiller | (3) Steam to Hot Water Converter | | | | | | | |
| Air Side | Heating Source | | | | | | | |
| (1) Single Zone | (1) Natural Gas | | | | | | | |
| (2) Multi-Zone | (2) Central Plant Steam | | | | | | | |
| (3) VAV | (3) Central Plant Hot Water | | | | | | | |
| | (4) Water Cooled Chiller | | | | | | | |
| | (5) Central Plant Supplied | | | | | | | |
| | (6) Other | | | | | | | |
| | (4) Furnace | | | | | | | |
| | (4) Oil | | | | | | | |
| | (5) Electric | | | | | | | |

EMCS Annual Energy Savings Summary Report

```

=====
Base: FTMEADE
Building: 4418
Case: 1
Description: LIBRARY
=====

```

```

=====
Fuel Type: Fuel oil, distillate #2
Heating Value: 138,700 Btu/gal
=====

```

Caution

```

=====
The ESA program makes no attempt to exclude incompatible strategies.
It is the user's responsibility to select all appropriate strategies.
=====

```

Annual Energy Savings Table for Single Zone DX-A/C

```

=====
Description: AHU-1
=====

```

| Strategy | MBtu/yr | kWh/yr | kW | mh/yr |
|----------------------|---------|--------|-----|-------|
| Scheduled Start/Stop | 0.000 | 483 | 0.0 | 0 |
| Duty Cycling | 0.000 | 262 | 0.0 | 0 |
| Demand Limiting | 0.000 | 0 | 0.1 | 0 |
| Day/Night Setback | 0.000 | 294 | 0.0 | 0 |
| Run Time Recording | 0.000 | 0 | 0.0 | 2 |
| Safety Alarm | 0.000 | 0 | 0.0 | 2 |
| Totals | 0.000 | 1,039 | 0.1 | 4 |
| | MBtu/yr | kWh/yr | kW | mh/yr |

```

=====

```

Annual Energy Savings Table for Hot Water Radiation

| Description: HW RADIATION | | | | |
|---------------------------|-----------------|----------|--------|---------|
| Strategy | MBtu/yr | kWh/yr | kW | mh/yr |
| Day/Night Setback | 42.204 | 0 | 0.0 | 0 |
| Run Time Recording | 0.000 | 0 | 0.0 | 2 |
| Safety Alarm | 0.000 | 0 | 0.0 | 2 |
| Subtotals | 42.204 | 0 | 0.0 | 4 |
| Heating Value / | 138,700 Btu/gal | | | |
| Totals | 304 gal/yr | 0 kWh/yr | 0.0 kW | 4 mh/yr |

Annual Energy Savings Table for Lighting Control

| Description: LIGHTING | | | | |
|-----------------------|---------------|--------------|--------|---------|
| Strategy | MBtu/yr | kWh/yr | kW | mh/yr |
| Lighting Control | 0.000 | 6,760 | 0.0 | 0 |
| Totals | 0.000 MBtu/yr | 6,760 kWh/yr | 0.0 kW | 0 mh/yr |

EMCS Annual Energy Savings for Building 4418

| Description | Value | Units |
|-----------------------------|-------|--------|
| Fuel oil, distillate #2 | 304 | gal/yr |
| Electrical Energy | 7,799 | kWh/yr |
| Electrical Demand Reduction | 0.1 | kW |
| Labor Savings | 8 | mh/yr |

FT. MEADE, MARYLAND

Building: 4419

Square feet 10,290

| Exterior Wall | |
|-----------------|---------|
| Components | R-Value |
| Outside Surface | 0.17 |
| Brick | 0.44 |
| Concrete Block | 1.72 |
| Air Space | 1.10 |
| Plaster | 0.56 |
| Inside Surface | 0.68 |
| | |
| | |
| Total R-Value | 4.67 |
| Total U-Value | 0.21 |

| Exterior Roof | |
|---------------------|---------|
| Components | R-Value |
| Outside Surface | 0.17 |
| Shingles | 0.44 |
| Wood Deck | 0.93 |
| Air Space | 1.10 |
| 8" Loose Insulation | 24.00 |
| Plaster | 0.56 |
| Inside Surface | 0.61 |
| | |
| Total R-Value | 27.81 |
| Total U-Value | 0.04 |

| Calculated Total Area | |
|------------------------------|-------|
| No. of Floors | 1 |
| Avg. Floor to Floor Height | 12 |
| No. of Basement Levels | 1 |
| Gross Floor Area | 10290 |
| Roof Area | 6300 |
| Estimated Infiltration (cfm) | 1500 |
| Gross Wall Area | 10315 |
| Door Area | 150 |
| Gross Window Area | 910 |
| Other | |
| Net Wall Area | 9255 |

| Window and Door | |
|-----------------------------|---------|
| | U-Value |
| Window Single Pane W/Storm | 0.60 |
| Window Single Pane Wo/Storm | |
| Window Double Pane | |
| Skylight | |
| Glass Block | |
| Other | |
| Door Type 1 | 0.50 |
| Door Type 2 | |
| Door Type 3 | |

$$U_oA_o = (9255 \times 0.21) + (6300 \times 0.04) + (910 \times 0.6) + (150 \times 0.5) = 2816$$



**FT. MEADE, MARYLAND
EQUIPMENT SCHEDULE**

BUILDING NO. 4419

| EQUIPMENT | SYSTEM NUMBER | | | | | | | |
|----------------------------------|-----------------------------|--------------|--------------|--------------|---------------|---------------|----------------|---|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| Equipment Name | AHU-1 | AHU-2 | AHU-3 | AHU-4 | AHU-5 | Boiler | Chiller | |
| COOLING: | | | | | | | | |
| Type of Cooling | 3 | 3 | 3 | 3 | 3 | | | |
| Air Side | 1 | 1 | 1 | 1 | 1 | | | |
| Location in Building | Chapel | Chapel | Fellowship | Office | Bsmt Classrms | | | |
| Area Sq. Feet | 1700 | 1700 | 1000 | 400 | 2300 | | | |
| Supply CFM | 3500 | 3500 | 4000 | 450 | 3200 | | | |
| Supply Fan HP | 7 1/2 | 7 1/2 | 1 1/2 | 3/4 | 1 | | | |
| O.A. CFM or % | 20% | 20% | 20% | 100 | 0% | | | |
| Return CFM | | | | | | | | |
| Return Fan HP | | | | | | | | |
| Chiller Tonnage | | | | | | | 75 | |
| Tower or Condenser Fan HP | | | | | | | | |
| Condenser Pump HP | | | | | | | | |
| Chilled Water Pump HP | | | | | | | | 5 |
| HEATING: | | | | | | | | |
| Type of Heating | | | | | | 2 | | |
| Source | | | | | | 1 | | |
| MBTUH | | | | | | 768/576 | | |
| Hot Water Pump HP | | | | | | | | |
| Condensate Pump HP | | | | | | 1/3 | | |
| ADDITIONAL: | | | | | | | | |
| Aux. HP Cooling | | | | | | | | |
| Aux. HP Heating | | | | | | | | |
| Operating Schedule Hrs./Week | | | | | | | | |
| | | | | | | | | |
| Type of Cooling | | | | | | | | |
| (1) Air Cooled DX | | | | | | | | |
| (2) Water Cooled DX | (4) Water Cooled Chiller | | | | | | | |
| (3) Air Cooled Chiller | (5) Central Plant Supplied | | | | | | | |
| | (6) Other | | | | | | | |
| Air Side | | | | | | | | |
| (1) Single Zone | (4) VAV w/ Reheat | | | | | | | |
| (2) Multi-Zone | (5) Constant Volume Reheat | | | | | | | |
| (3) VAV | (6) Heating and Ventilating | | | | | | | |
| Type of Heating | | | | | | | | |
| (1) Boiler Hot Water | | | | | | | (4) Furnace | |
| (2) Boiler Steam | | | | | | | | |
| (3) Steam to Hot Water Converter | | | | | | | | |
| Heating Source | | | | | | | | |
| (1) Natural Gas | | | | | | | (4) Oil | |
| (2) Central Plant Steam | | | | | | | (5) Electric | |
| (3) Central Plant Hot Water | | | | | | | | |

EMCS Annual Energy Savings Summary Report

```

=====
Base: FTMEADE
Building: 4419
Case: 1
Description: CHAPEL
=====

```

```

-----
Fuel Type: Natural gas (methane)
Heating Value: 1,031 Btu/cf
=====

```

Caution

```

=====
The ESA program makes no attempt to exclude incompatible strategies.
It is the user's responsibility to select all appropriate strategies.
=====

```

Annual Energy Savings Table for Single Zone AHU

```

=====
Description: AHU-1 CHAPEL LEFT
=====

```

| Strategy | MBtu/yr | kWh/yr | kW | mh/yr |
|----------------------|-------------------|------------------|-----------|------------|
| Scheduled Start/Stop | 115.664 | 16,323 | 0.0 | 0 |
| Demand Limiting | 0.000 | 0 | 1.1 | 0 |
| Vent/Recirculation | 11.145 | 0 | 0.0 | 0 |
| Run Time Recording | 0.000 | 0 | 0.0 | 2 |
| Safety Alarm | 0.000 | 0 | 0.0 | 2 |
| Subtotals | 126.809 | 16,323 | 1.1 | 4 |
| Heating Value / | 1,031 Btu/cf | | | |
| Totals | 122,996 cf /yr | 16,323 kWh/yr | 1.1 kW | 4 mh/yr |

Annual Energy Savings Table for Single Zone AHU

Description: AHU-3 FELLOWSHIP HALL

| Strategy | MBtu/yr | kWh/yr | kW | mh/yr |
|----------------------|-------------------|-----------------|-----------|------------|
| Scheduled Start/Stop | 109.733 | 3,783 | 0.0 | 0 |
| Demand Limiting | 0.000 | 0 | 0.2 | 0 |
| Vent/Recirculation | 12.737 | 0 | 0.0 | 0 |
| Run Time Recording | 0.000 | 0 | 0.0 | 2 |
| Safety Alarm | 0.000 | 0 | 0.0 | 2 |
| Subtotals | 122.470 | 3,783 | 0.2 | 4 |
| Heating Value / | 1,031 Btu/cf | | | |
| Totals | 118,787 cf /yr | 3,783 kWh/yr | 0.2 kW | 4 mh/yr |

Annual Energy Savings Table for Single Zone AHU

Description: AHU-4 CHAPLIN OFFICE

| Strategy | MBtu/yr | kWh/yr | kW | mh/yr |
|----------------------|------------------|-----------------|-----------|------------|
| Scheduled Start/Stop | 19.192 | 1,655 | 0.0 | 0 |
| Demand Limiting | 0.000 | 0 | 0.1 | 0 |
| Vent/Recirculation | 1.433 | 0 | 0.0 | 0 |
| Run Time Recording | 0.000 | 0 | 0.0 | 2 |
| Safety Alarm | 0.000 | 0 | 0.0 | 2 |
| Subtotals | 20.625 | 1,655 | 0.1 | 4 |
| Heating Value / | 1,031 Btu/cf | | | |
| Totals | 20,005 cf /yr | 1,655 kWh/yr | 0.1 kW | 4 mh/yr |

Annual Energy Savings Table for Single Zone AHU

Description: AHU-5 BASEMENT CLASSROOMS

| Strategy | MBtu/yr | kWh/yr | kW | mh/yr |
|----------------------|-------------------|-----------------|-----------|------------|
| Scheduled Start/Stop | 123.510 | 2,656 | 0.0 | 0 |
| Demand Limiting | 0.000 | 0 | 0.1 | 0 |
| Vent/Recirculation | 10.190 | 0 | 0.0 | 0 |
| Run Time Recording | 0.000 | 0 | 0.0 | 2 |
| Safety Alarm | 0.000 | 0 | 0.0 | 2 |
| Subtotals | 133.700 | 2,656 | 0.1 | 4 |
| Heating Value / | 1,031 Btu/cf | | | |
| Totals | 129,680 cf /yr | 2,656 kWh/yr | 0.1 kW | 4 mh/yr |

Annual Energy Savings Table for Single Zone AHU

Description: AHU-2 CHAPEL RIGHT

| Strategy | MBtu/yr | kWh/yr | kW | mh/yr |
|----------------------|-------------------|------------------|-----------|------------|
| Scheduled Start/Stop | 115.664 | 16,323 | 0.0 | 0 |
| Demand Limiting | 0.000 | 0 | 1.1 | 0 |
| Vent/Recirculation | 11.145 | 0 | 0.0 | 0 |
| Run Time Recording | 0.000 | 0 | 0.0 | 2 |
| Safety Alarm | 0.000 | 0 | 0.0 | 2 |
| Subtotals | 126.809 | 16,323 | 1.1 | 4 |
| Heating Value / | 1,031 Btu/cf | | | |
| Totals | 122,996 cf /yr | 16,323 kWh/yr | 1.1 kW | 4 mh/yr |

Annual Energy Savings Table for Air Cooled Chiller

| Description: CHILLER | | | | |
|----------------------|---------|--------|-----|-------|
| Strategy | MBtu/yr | kWh/yr | kW | mh/yr |
| Scheduled Start/Stop | 0.000 | 2,371 | 0.0 | 0 |
| Chiller Water Reset | 0.000 | 2,714 | 0.0 | 0 |
| Run Time Recording | 0.000 | 0 | 0.0 | 2 |
| Safety Alarm | 0.000 | 0 | 0.0 | 2 |
| Totals | 0.000 | 5,085 | 0.0 | 4 |
| | MBtu/yr | kWh/yr | kW | mh/yr |

EMCS Annual Energy Savings for Building 4419

| Description | Value | Units |
|-----------------------------|---------|--------|
| Natural gas (methane) | 514,464 | cf /yr |
| Electrical Energy | 45,824 | kWh/yr |
| Electrical Demand Reduction | 2.7 | kW |
| Labor Savings | 24 | mh/yr |

FT. MEADE, MARYLAND

Building: 4431

Square feet 5,812

| Exterior Wall | |
|-----------------|---------|
| Components | R-Value |
| Outside Surface | 0.17 |
| Brick | 0.44 |
| Air Space | 1.10 |
| Concrete block | 1.11 |
| Inside Surface | 0.68 |
| | |
| | |
| | |
| | |
| Total R-Value | 3.50 |
| Total U-Value | 0.29 |

| Exterior Roof | |
|-----------------|---------|
| Components | R-Value |
| Outside Surface | 0.17 |
| Slate Roof | 0.05 |
| Air Space | 1.10 |
| Plaster | 0.56 |
| Inside Surface | 0.61 |
| | |
| | |
| | |
| | |
| Total R-Value | 2.49 |
| Total U-Value | 0.40 |

| Calculated Total Area | |
|------------------------------|------|
| No. of Floors | 1 |
| Avg. Floor to Floor Height | 14 |
| No. of Basement Levels | |
| Gross Floor Area | 5800 |
| Roof Area | 5800 |
| Estimated Infiltration (cfm) | 700 |
| Gross Wall Area | 4760 |
| Door Area | 60 |
| Gross Window Area | 330 |
| Other | |
| Net Wall Area | 4370 |

| Window and Door | |
|-----------------------------|---------|
| | U-Value |
| Window Single Pane W/Storm | 1.00 |
| Window Single Pane Wo/Storm | |
| Window Double Pane | |
| Skylight | |
| Glass Block | |
| Other | |
| Door Type 1 | 1.00 |
| Door Type 2 | |
| Door Type 3 | |

$$U_oA_o = (4370 \cdot 0.4) + (5800 \cdot 0.28) + (390 \cdot 1.0) = 3,762$$

**FT. MEADE, MARYLAND
EQUIPMENT SCHEDULE**

BUILDING NO. 4431

Page 1 of 1

| EQUIPMENT | SYSTEM NUMBER | | | | | | | |
|------------------------------|----------------------------------|-------|---|---|---|---|---|---|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| Equipment Name | Boiler | AHU-1 | | | | | | |
| COOLING: | | | | | | | | |
| Type of Cooling | 1 | | | | | | | |
| Air Side | 1 | | | | | | | |
| Location in Building | All | | | | | | | |
| Area Sq. Feet | 5800 | | | | | | | |
| Supply CFM | 15000 | | | | | | | |
| Supply Fan HP | 7 1/2 | | | | | | | |
| O.A. CFM or % | 25% | | | | | | | |
| Return CFM | | | | | | | | |
| Return Fan HP | | | | | | | | |
| Chiller Tonnage | 35 | | | | | | | |
| Tower or Condenser Fan HP | | | | | | | | |
| Condenser Pump HP | | | | | | | | |
| Chilled Water Pump HP | | | | | | | | |
| HEATING: | | | | | | | | |
| Type of Heating | 2 | | | | | | | |
| Source | 1 | | | | | | | |
| MBTUH | 2319/1855 | | | | | | | |
| Hot Water Pump HP | | | | | | | | |
| Condensate Pump HP | 1/3 | | | | | | | |
| ADDITIONAL: | | | | | | | | |
| Aux. HP Cooling | | | | | | | | |
| Aux. HP Heating | | | | | | | | |
| Operating Schedule Hrs./Week | | | | | | | | |
| Type of Cooling | Type of Heating | | | | | | | |
| (1) Air Cooled DX | (1) Boiler Hot Water | | | | | | | |
| (2) Water Cooled DX | (2) Boiler Steam | | | | | | | |
| (3) Air Cooled Chiller | (3) Steam to Hot Water Converter | | | | | | | |
| Air Side | Heating Source | | | | | | | |
| (1) Single Zone | (1) Natural Gas | | | | | | | |
| (2) Multi-Zone | (2) Central Plant Steam | | | | | | | |
| (3) VAV | (3) Central Plant Hot Water | | | | | | | |
| | (4) Furnace | | | | | | | |
| | (4) Oil | | | | | | | |
| | (5) Electric | | | | | | | |

EMCS Annual Energy Savings Summary Report

```

=====
Base: FTMEADE
Building: 4431
Case: 1
Description: THEATER
-----
Fuel Type: Natural gas (methane)
Heating Value: 1,031 Btu/cf
=====
    
```

Caution

```

=====
The ESA program makes no attempt to exclude incompatible strategies.
It is the user's responsibility to select all appropriate strategies.
=====
    
```

Annual Energy Savings Table for Single Zone AHU

```

=====
Description: BLDG AHU-1
=====
Strategy                MBtu/yr      kWh/yr      kW   mh/yr
=====
Day/Night Setback      119.998      379         0.0   0
Vent/Recirculation     55.974       0           0.0   0
Run Time Recording     0.000        0           0.0   2
Safety Alarm           0.000        0           0.0   2
-----
Subtotals               175.972      379         0.0   4
Heating Value /       1,031 Btu/cf
=====
Totals                 170,681      379         0.0   4
                    cf /yr      kWh/yr      kW   mh/yr
=====
    
```

Annual Energy Savings Table for Air Cooled DX Compressor

| Description: CONDENSERS | | | | |
|-------------------------|---------|--------|-----|-------|
| Strategy | MBtu/yr | kWh/yr | kW | mh/yr |
| Scheduled Start/Stop | 0.000 | 2,780 | 0.0 | 0 |
| Duty Cycling | 0.000 | 1,552 | 0.0 | 0 |
| Demand Limiting | 0.000 | 0 | 0.7 | 0 |
| Run Time Recording | 0.000 | 0 | 0.0 | 2 |
| Safety Alarm | 0.000 | 0 | 0.0 | 2 |
| Totals | 0.000 | 4,332 | 0.7 | 4 |
| | MBtu/yr | kWh/yr | kW | mh/yr |

Annual Energy Savings Table for Lighting Control

| Description: BLDG LIGHTING | | | | |
|----------------------------|---------|--------|-----|-------|
| Strategy | MBtu/yr | kWh/yr | kW | mh/yr |
| Lighting Control | 0.000 | 14,040 | 0.0 | 0 |
| Run Time Recording | 0.000 | 0 | 0.0 | 2 |
| Safety Alarm | 0.000 | 0 | 0.0 | 2 |
| Totals | 0.000 | 14,040 | 0.0 | 4 |
| | MBtu/yr | kWh/yr | kW | mh/yr |

EMCS Annual Energy Savings for Building 4431

| Description | Value | Units |
|-----------------------------|---------|--------|
| Natural gas (methane) | 170,681 | cf /yr |
| Electrical Energy | 18,750 | kWh/yr |
| Electrical Demand Reduction | 0.7 | kW |
| Labor Savings | 12 | mh/yr |

EMCS Annual Energy Savings Summary Report

```

=====
Base: FTMEADE
Building: 4432
Case: 1
Description:
-----
Fuel Type: Natural gas (methane)
Heating Value: 1,031 Btu/cf
=====
    
```

Caution

```

=====
The ESA program makes no attempt to exclude incompatible strategies.
It is the user's responsibility to select all appropriate strategies.
=====
    
```

Annual Energy Savings Table for Single Zone DX-A/C

```

=====
Description: AHU-1
=====
Strategy                MBtu/yr      kWh/yr      kW   mh/yr
=====
Scheduled Start/Stop    223.620      8,440       0.0   0
Demand Limiting         0.000        0           0.7   0
Vent/Recirculation      31.108       0           0.0   0
Run Time Recording      0.000        0           0.0   2
Safety Alarm            0.000        0           0.0   2
-----
Subtotals                254.727      8,440       0.7   4
Heating Value /         1,031 Btu/cf
-----
Totals                  247,068      8,440       0.7   4
                        cf /yr      kWh/yr      kW   mh/yr
=====
    
```

Annual Energy Savings Table for Single Zone DX-A/C

Description: AHU-2

| Strategy | MBtu/yr | kWh/yr | kW | mh/yr |
|----------------------|-------------------|-----------------|-----------|------------|
| Scheduled Start/Stop | 124.233 | 7,742 | 0.0 | 0 |
| Demand Limiting | 0.000 | 0 | 0.7 | 0 |
| Vent/Recirculation | 17.282 | 0 | 0.0 | 0 |
| Run Time Recording | 0.000 | 0 | 0.0 | 2 |
| Safety Alarm | 0.000 | 0 | 0.0 | 2 |
| Subtotals | 141.515 | 7,742 | 0.7 | 4 |
| Heating Value / | 1,031 Btu/cf | | | |
| Totals | 137,260 cf /yr | 7,742 kWh/yr | 0.7 kW | 4 mh/yr |

Annual Energy Savings Table for Single Zone DX-A/C

Description: AHU-3

| Strategy | MBtu/yr | kWh/yr | kW | mh/yr |
|----------------------|------------------|-----------------|-----------------|------------|
| Scheduled Start/Stop | 41.650 | 1,133 | 0.0 | 0 |
| Demand Limiting | 0.000 | 0 | 0.0746000 | 0 |
| Vent/Recirculation | 3.802 | 0 | 0.0 | 0 |
| Run Time Recording | 0.000 | 0 | 0.0 | 2 |
| Safety Alarm | 0.000 | 0 | 0.0 | 2 |
| Subtotals | 45.452 | 1,133 | 0.0746000 | 4 |
| Heating Value / | 1,031 Btu/cf | | | |
| Totals | 44,085 cf /yr | 1,133 kWh/yr | 0.0746000 kW | 4 mh/yr |

Annual Energy Savings Table for Single Zone DX-A/C

| Description: AHU-4 | | | | |
|----------------------|-------------------|-----------------|-----------|------------|
| Strategy | MBtu/yr | kWh/yr | kW | mh/yr |
| Scheduled Start/Stop | 107.864 | 4,896 | 0.0 | 0 |
| Demand Limiting | 0.000 | 0 | 0.4 | 0 |
| Vent/Recirculation | 15.554 | 0 | 0.0 | 0 |
| Run Time Recording | 0.000 | 0 | 0.0 | 2 |
| Safety Alarm | 0.000 | 0 | 0.0 | 2 |
| Subtotals | 123.418 | 4,896 | 0.4 | 4 |
| Heating Value / | 1,031 Btu/cf | | | |
| Totals | 119,707 cf /yr | 4,896 kWh/yr | 0.4 kW | 4 mh/yr |

Annual Energy Savings Table for Hot Water Radiation

| Description: FIN TUBE RADIATION | | | | |
|---------------------------------|-------------------|-------------|-----------|------------|
| Strategy | MBtu/yr | kWh/yr | kW | mh/yr |
| Day/Night Setback | 207.492 | 0 | 0.0 | 0 |
| Subtotals | 207.492 | 0 | 0.0 | 0 |
| Heating Value / | 1,031 Btu/cf | | | |
| Totals | 201,253 cf /yr | 0 kWh/yr | 0.0 kW | 0 mh/yr |

Annual Energy Savings Table for Hot Water Boiler

```

=====
Description: B-1
=====
Strategy                MBtu/yr          kWh/yr          kW   mh/yr
=====
    Hot Water OA Reset      80.000           0             0.0   0
    Run Time Recording      0.000           0             0.0   2
    Safety Alarm            0.000           0             0.0   2
-----
    Subtotals                80.000           0             0.0   4
    Heating Value /         1,031 Btu/cf
=====
    Totals                  77,595           0             0.0   4
                           cf /yr          kWh/yr          kW   mh/yr
=====
    
```

Annual Energy Savings Table for Lighting Control

```

=====
Description: LIGHTING
=====
Strategy                MBtu/yr          kWh/yr          kW   mh/yr
=====
    Lighting Control        0.000           63,700         0.0   0
-----
    Totals                  0.000           63,700         0.0   0
                           MBtu/yr          kWh/yr          kW   mh/yr
=====
    
```

EMCS Annual Energy Savings for Building 4432

```

=====
Description                Value          Units
=====
    Natural gas (methane)    826,968       cf /yr
    Electrical Energy        85,911        kWh/yr
    Electrical Demand Reduction  2.0          kW
    Labor Savings            20            mh/yr
=====
    
```

FT. MEADE, MARYLAND

Building: 4471

Square feet 7,248

| Exterior Wall | |
|-----------------|-------------|
| Components | R-Value |
| Outside Surface | 0.17 |
| Concrete Block | 1.72 |
| Air Space | 1.10 |
| Gyp Board | 0.56 |
| Inside Surface | 0.68 |
| | |
| | |
| | |
| Total R-Value | 4.23 |
| Total U-Value | 0.24 |

| Exterior Roof | |
|-----------------|--------------|
| Components | R-Value |
| Outside Surface | 0.17 |
| Shingles | 0.44 |
| Wood Deck | 0.93 |
| Air Space | 1.10 |
| 3" Insulation | 11.00 |
| Acoustical Tile | 1.89 |
| Inside Surface | 0.61 |
| | |
| Total R-Value | 16.14 |
| Total U-Value | 0.06 |

| Calculated Total Area | |
|------------------------------|------|
| No. of Floors | 1 |
| Avg. Floor to Floor Height | 10 |
| No. of Basement Levels | |
| Gross Floor Area | 7248 |
| Roof Area | 7248 |
| Estimated Infiltration (cfm) | 1000 |
| Gross Wall Area | 3480 |
| Door Area | 21 |
| Gross Window Area | 389 |
| Other | |
| Net Wall Area | 3070 |

| Window and Door | |
|-----------------------------|---------|
| | U-Value |
| Window Single Pane W/Storm | 0.60 |
| Window Single Pane Wo/Storm | |
| Window Double Pane | |
| Skylight | |
| Glass Block | |
| Other | |
| Door Type 1 | 0.50 |
| Door Type 2 | |
| Door Type 3 | |

$$U_oA_o = (3070 \cdot 0.24) + (7248 \cdot 0.06) + (21 \cdot 0.5) + (389 \cdot 0.6) = 1415.6$$

EMCS Annual Energy Savings Summary Report

```

=====
Base: FTMEADE
Building: 4471
Case: 1
Description:
-----
Fuel Type: Fuel oil, distillate #2
Heating Value: 138,700 Btu/gal
=====
    
```

Caution

```

=====
The ESA program makes no attempt to exclude incompatible strategies.
It is the user's responsibility to select all appropriate strategies.
=====
    
```

Annual Energy Savings Table for Direct Fired Furnace

```

=====
Description: FURNACE
=====
Strategy                MBtu/yr      kWh/yr      kW   mh/yr
=====
Day/Night Setback       58.105        0           0.0   0
Run Time Recording       0.000        0           0.0   2
Safety Alarm             0.000        0           0.0   2
-----
Subtotals                 58.105        0           0.0   4
Heating Value /         138,700 Btu/gal
=====
Totals                    419          0           0.0   4
                        gal/yr      kWh/yr      kW   mh/yr
=====
    
```

Annual Energy Savings Table for Air Cooled DX Compressor

Description: CONDENSING UNITS

| Strategy | MBtu/yr | kWh/yr | kW | mh/yr |
|----------------------|---------|--------|-----|-------|
| Scheduled Start/Stop | 0.000 | 3,925 | 0.0 | 0 |
| Duty Cycling | 0.000 | 4,655 | 0.0 | 0 |
| Demand Limiting | 0.000 | 0 | 1.5 | 0 |
| Run Time Recording | 0.000 | 0 | 0.0 | 2 |
| Safety Alarm | 0.000 | 0 | 0.0 | 2 |
| Totals | 0.000 | 8,580 | 1.5 | 4 |
| | MBtu/yr | kWh/yr | kW | mh/yr |

EMCS Annual Energy Savings for Building 4471

| Description | Value | Units |
|-----------------------------|-------|--------|
| Fuel oil, distillate #2 | 419 | gal/yr |
| Electrical Energy | 8,580 | kWh/yr |
| Electrical Demand Reduction | 1.5 | kW |
| Labor Savings | 8 | mh/yr |

ATTACHMENT SECTION 8.2D

BUILDINGS 4550 TO 4552

FT. MEADE, MARYLAND

Building: 4550

Square feet 123,400

| Exterior Wall | |
|---------------------|--------------|
| Components | R-Value |
| Outside Surface | 0.17 |
| Brick | 0.44 |
| Air Space | 1.10 |
| Concrete Block | 1.72 |
| 1" Insulation Rigid | 6.00 |
| Plaster | 0.56 |
| Inside Surface | 0.68 |
| | |
| Total R-Value | 10.67 |
| Total U-Value | 0.09 |

| Exterior Roof | |
|---------------------|--------------|
| Components | R-Value |
| Outside Surface | 0.17 |
| Rubber Roof | 0.50 |
| 2" Insulation Rigid | 12.00 |
| Metal Deck | 0.00 |
| Air Space | 1.10 |
| Acoustic Tile Clg | 1.89 |
| Inside Surface | 0.61 |
| | |
| Total R-Value | 16.27 |
| Total U-Value | 0.06 |

| Calculated Total Area | |
|------------------------------|--------|
| No. of Floors | 4 |
| Avg. Floor to Floor Height | 12 |
| No. of Basement Levels | 1 |
| Gross Floor Area | 123400 |
| Roof Area | 26650 |
| Estimated Infiltration (cfm) | 6000 |
| Gross Wall Area | 57600 |
| Door Area | 250 |
| Gross Window Area | 9510 |
| Other | |
| Net Wall Area | 47840 |

| Window and Door | |
|-----------------------------|---------|
| | U-Value |
| Window Single Pane W/Storm | |
| Window Single Pane Wo/Storm | |
| Window Double Pane | 0.55 |
| Skylight | |
| Glass Block | |
| Other | |
| Door Type 1 | 0.55 |
| Door Type 2 | |
| Door Type 3 | |

FT. MEADE, MARYLAND
EQUIPMENT SCHEDULE

BUILDING NO. 4550

| EQUIPMENT | SYSTEM NUMBER | | | | | | | |
|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|-----------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| Equipment Name | AHU-1 | AHU-2 | AHU-3 | AHU-4 | AHU-5 | AHU-6 | AHU-7 | AHU-8 |
| COOLING: | | | | | | | | |
| Type of Cooling | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Air Side | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Location in Building | 4th Flr | 1st Flr East | 1st Flr West | 2nd Flr East | 2nd Flr West | 3rd Flr East | 3rd Flr West | Bsmt West |
| Area Sq. Feet | 15250 | 13500 | 13500 | 13500 | 13500 | 13500 | 13500 | 13000 |
| Supply CFM | 9200 | 13400 | 13400 | 13400 | 13400 | 14700 | 14700 | 5500 |
| Supply Fan HP | 10 | 15 | 15 | 15 | 15 | 15 | 15 | 7 1/2 |
| O.A. CFM or % | 20% | 20% | 20% | 20% | 20% | 20% | 20% | 20% |
| Return CFM | | | | | | | | |
| Return Fan HP | | | | | | | | |
| Chiller Tonnage | | | | | | | | |
| Tower or Condenser Fan HP | | | | | | | | |
| Condenser Pump HP | | | | | | | | |
| Chilled Water Pump HP | | | | | | | | |
| HEATING: | | | | | | | | |
| Type of Heating | | | | | | | | |
| Source | | | | | | | | |
| MBTUH | | | | | | | | |
| Hot Water Pump HP | | | | | | | | |
| Condensate Pump HP | | | | | | | | |
| ADDITIONAL: | | | | | | | | |
| Aux. HP Cooling | | | | | | | | |
| Aux. HP Heating | | | | | | | | |
| Operating Schedule Hrs./Week | | | | | | | | |
| Type of Cooling | (1) Air Cooled DX (4) Water Cooled Chiller (5) Central Plant Supplied (6) Other | | | | | | | |
| Type of Heating | (1) Boiler Hot Water (2) Boiler Steam (3) Steam to Hot Water Converter (4) Furnace | | | | | | | |
| Air Side | (1) Natural Gas (2) Central Plant Steam (3) Central Plant Hot Water (4) VAV w/ Reheat (5) Constant Volume Reheat (6) Heating and Ventilating | | | | | | | |
| Heating Source | (1) Natural Gas (2) Central Plant Steam (3) Central Plant Hot Water (4) Oil (5) Electric | | | | | | | |

**FT. MEADE, MARYLAND
EQUIPMENT SCHEDULE**

BUILDING NO. 4550

Page 2 of 2

| EQUIPMENT | SYSTEM NUMBER | | | | | | | |
|------------------------------|----------------------------------|-------|-----------|-----------|---------|---------|---|---|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| Equipment Name | AHU-9 | H&V-1 | Boiler | Boiler | Chiller | Chiller | | |
| COOLING: | | | | | | | | |
| Type of Cooling | 3 | N/A | | | 3 | 3 | | |
| Air Side | 1 | 6 | | | | | | |
| Location in Building | Bsmt East | Bsmt | | | | | | |
| Area Sq. Feet | 13000 | 1000 | | | | | | |
| Supply CFM | 4700 | 3300 | | | | | | |
| Supply Fan HP | 5 | 1 1/2 | | | | | | |
| O.A. CFM or % | 20% | 100% | | | | | | |
| Return CFM | | | | | | | | |
| Return Fan HP | | | | | | | | |
| Chiller Tonnage | | | | | 120 | 120 | | |
| Tower or Condenser Fan HP | | | | | | | | |
| Condenser Pump HP | | | | | | | | |
| Chilled Water Pump HP | | | | | 20 | 20 | | |
| HEATING: | | | | | | | | |
| Type of Heating | | | 1 | 1 | | | | |
| Source | | | 1 | 1 | | | | |
| MBTUH | | | 2160/1878 | 2160/1878 | | | | |
| Hot Water Pump HP | | | 7 1/2 | | | | | |
| Condensate Pump HP | | | | | | | | |
| ADDITIONAL: | | | | | | | | |
| Aux. HP Cooling | | | | | | | | |
| Aux. HP Heating | | | | | | | | |
| Operating Schedule Hrs./Week | | | | | | | | |
| Type of Cooling | Type of Heating | | | | | | | |
| (1) Air Cooled DX | (1) Boiler Hot Water | | | | | | | |
| (2) Water Cooled DX | (2) Boiler Steam | | | | | | | |
| (3) Air Cooled Chiller | (3) Steam to Hot Water Converter | | | | | | | |
| Air Side | Heating Source | | | | | | | |
| (1) Single Zone | (1) Natural Gas | | | | | | | |
| (2) Multi-Zone | (2) Central Plant Steam | | | | | | | |
| (3) VAV | (3) Central Plant Hot Water | | | | | | | |
| | (4) VAV w/ Reheat | | | | | | | |
| | (5) Constant Volume Reheat | | | | | | | |
| | (6) Heating and Ventilating | | | | | | | |
| | (4) Furnace | | | | | | | |
| | (4) Oil | | | | | | | |
| | (5) Electric | | | | | | | |

EMCS Annual Energy Savings Summary Report

```

=====
Base: FTMEADE
Building: 4550
Case: 1
Description: ADMIN-FIRST ARMY HDQTRS EAST
=====
Fuel Type: Natural gas (methane)
Heating Value: 1,031 Btu/cf
=====
    
```

Caution

```

=====
The ESA program makes no attempt to exclude incompatible strategies.
It is the user's responsibility to select all appropriate strategies.
=====
    
```

Annual Energy Savings Table for Single Zone AHU

```

=====
Description: AHU-BW
=====
Strategy                MBtu/yr      kWh/yr      kW   mh/yr
=====
Demand Limiting         0.000        0           3.7   0
Run Time Recording      0.000        0           0.0   2
Safety Alarm            0.000        0           0.0   2
=====
Totals                  0.000        0           3.7   4
                        MBtu/yr      kWh/yr      kW   mh/yr
=====
    
```

Annual Energy Savings Table for Multi-zone AHU

```

=====
Description: AHU-1E,1W,2E,2W,3E,3W
=====
Strategy                MBtu/yr      kWh/yr      kW   mh/yr
=====
Demand Limiting         0.000        0           13.4  0
Run Time Recording      0.000        0           0.0   2
Safety Alarm            0.000        0           0.0   2
=====
Totals                  0.000        0           13.4  4
                        MBtu/yr      kWh/yr      kW   mh/yr
=====
    
```

Annual Energy Savings Table for Multi-zone AHU

| Description: AHU-4 | | | | |
|--------------------|---------|--------|-----|-------|
| Strategy | MBtu/yr | kWh/yr | kW | mh/yr |
| Demand Limiting | 0.000 | 0 | 1.5 | 0 |
| Run Time Recording | 0.000 | 0 | 0.0 | 2 |
| Safety Alarm | 0.000 | 0 | 0.0 | 2 |
| Totals | 0.000 | 0 | 1.5 | 4 |
| | MBtu/yr | kWh/yr | kW | mh/yr |

Annual Energy Savings Table for Multi-zone AHU

| Description: AHU-BE | | | | |
|---------------------|---------|--------|-----|-------|
| Strategy | MBtu/yr | kWh/yr | kW | mh/yr |
| Demand Limiting | 0.000 | 0 | 1.1 | 0 |
| Run Time Recording | 0.000 | 0 | 0.0 | 2 |
| Safety Alarm | 0.000 | 0 | 0.0 | 2 |
| Totals | 0.000 | 0 | 1.1 | 4 |
| | MBtu/yr | kWh/yr | kW | mh/yr |

Annual Energy Savings Table for Heating/Ventilating Unit

| Description: H&V-1 | | | | |
|----------------------|--------------|--------|-----|-------|
| Strategy | MBtu/yr | kWh/yr | kW | mh/yr |
| Scheduled Start/Stop | 399.044 | 2,487 | 0.0 | 0 |
| Run Time Recording | 0.000 | 0 | 0.0 | 2 |
| Safety Alarm | 0.000 | 0 | 0.0 | 2 |
| Subtotals | 399.044 | 2,487 | 0.0 | 4 |
| Heating Value / | 1,031 Btu/cf | | | |
| Totals | 387,045 | 2,487 | 0.0 | 4 |
| | cf /yr | kWh/yr | kW | mh/yr |

Annual Energy Savings Table for Hot Water Boiler

| Description: BOILER | | | | |
|---------------------|-------------------|-------------|-----------|------------|
| Strategy | MBtu/yr | kWh/yr | kW | mh/yr |
| Hot Water OA Reset | 152.471 | 0 | 0.0 | 0 |
| Run Time Recording | 0.000 | 0 | 0.0 | 2 |
| Safety Alarm | 0.000 | 0 | 0.0 | 2 |
| Subtotals | 152.471 | 0 | 0.0 | 4 |
| Heating Value / | 1,031 Btu/cf | | | |
| Totals | 147,886 cf /yr | 0 kWh/yr | 0.0 kW | 4 mh/yr |

Annual Energy Savings Table for Air Cooled Chiller

| Description: C-1 | | | | |
|----------------------|------------------|------------------|-----------|------------|
| Strategy | MBtu/yr | kWh/yr | kW | mh/yr |
| Scheduled Start/Stop | 0.000 | 51,510 | 0.0 | 0 |
| Chiller Selection | 0.000 | 1,670 | 0.0 | 0 |
| Chiller Water Reset | 0.000 | 20,045 | 0.0 | 0 |
| Run Time Recording | 0.000 | 0 | 0.0 | 2 |
| Safety Alarm | 0.000 | 0 | 0.0 | 2 |
| Totals | 0.000 MBtu/yr | 73,225 kWh/yr | 0.0 kW | 4 mh/yr |

Annual Energy Savings Table for Lighting Control

| Description: BLDG LIGHTING | | | | |
|----------------------------|------------------|-------------------|-----------|------------|
| Strategy | MBtu/yr | kWh/yr | kW | mh/yr |
| Lighting Control | 0.000 | 130,000 | 0.0 | 0 |
| Run Time Recording | 0.000 | 0 | 0.0 | 2 |
| Safety Alarm | 0.000 | 0 | 0.0 | 2 |
| Totals | 0.000 MBtu/yr | 130,000 kWh/yr | 0.0 kW | 4 mh/yr |

EMCS Annual Energy Savings for Building 4550

| Description | Value | Units |
|-----------------------------|---------|--------|
| Natural gas (methane) | 534,931 | cf /yr |
| Electrical Energy | 205,712 | kWh/yr |
| Electrical Demand Reduction | 19.8 | kW |
| Labor Savings | 32 | mh/yr |

**UMCS FEASIBILITY STUDY
FORT MEADE
BUILDING 4550 - ADMINISTRATIVE
DOE ENERGY SAVINGS SUMMARY**

| | Space Heat | | Space Cool Electricity mmBtu | HVAC Aux Electricity mmBtu | Lights Electricity mmBtu | Misc Equip Electricity mmBtu | TOTAL | | TOTAL | |
|---------------------------------------------------|----------------------|----------------------|------------------------------------|----------------------------------|--------------------------------|------------------------------------|----------------------|----------------------|--------------------|--------------------|
| | Electricity mmBtu | Natural Gas mmBtu | | | | | Electricity mmBtu | Natural Gas mmBtu | Electricity Kwh | Natural Gas MCF |
| Existing | 371.4 | 11,620.2 | 943.7 | 1,968.4 | 1,913.4 | 853.4 | 6,050.2 | 11,620.2 | 1,772,704 | 11,270.8 |
| New w/Night Setback | 183.4 | 4,965.3 | 825.3 | 1,388.7 | 1,913.4 | 853.4 | 5,164.2 | 4,965.3 | 1,513,088 | 4,816.0 |
| Night Setback Savings | | | | | | | 886.1 | 6,654.9 | 259,616 | 6,454.8 |
| New w/Night Setback and Vent/Recirc | 174.8 | 4,863.8 | 872.2 | 1,340.0 | 1,913.4 | 853.4 | 5,153.8 | 4,863.8 | 1,510,041 | 4,717.6 |
| Vent/Recirc Savings | | | | | | | 10.4 | 101.5 | 3,047 | 98.5 |
| New w/Night Setback & Vent/Recirc & Temp Reset | 172.2 | 4,815.7 | 882.2 | 1,314.3 | 1,913.4 | 853.4 | 5,135.6 | 4,815.7 | 1,504,706 | 4,670.9 |
| Temp Reset Savings | | | | | | | 18.2 | 48.1 | 5,335 | 46.7 |

BUILDING 4550
 EXISTING
 FILE: 4550E

| MMDDHH | AHU-1 | AHU-1 | AHU-1 | AHU-2 | AHU-2 | AHU-2 | AHU-3 | AHU-3 |
|-----------------------|-------------------------------|--------------------------|-------------------------------|-------------------------------|--------------------------|-------------------------------|-------------------------------|--------------------------|
| | TOT HTG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | HEATING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | HEATING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR | SUPPLY ELECTRIC KW |
| | ---- (5) | ---- (49) | ---- (78) | ---- (5) | ---- (49) | ---- (78) | ---- (5) | ---- (49) |
| MONTHLY SUMMARY (JAN) | | | | | | | | |
| MN | -440332. | 8.744 | -468586. | -290896. | 5.827 | -312286. | -298077. | 5.998 |
| MX | -188048. | 8.744 | -468586. | -89584. | 5.827 | -312286. | -86697. | 5.998 |
| SM | -255710352. | 6505.630 | -348628128. | -153531424. | 4335.633 | -232340784. | -156702752. | 4462.252 |
| AV | -343697. | 8.744 | -468586. | -206359. | 5.827 | -312286. | -210622. | 5.998 |
| MONTHLY SUMMARY (FEB) | | | | | | | | |
| MN | -440347. | 8.744 | -468586. | -293438. | 5.827 | -312286. | -302007. | 5.998 |
| MX | -32579. | 8.744 | -468586. | -143. | 5.827 | -312286. | -1393. | 5.998 |
| SM | -225897392. | 5876.053 | -314889888. | -135785728. | 3916.056 | -209856192. | -138520176. | 4030.421 |
| AV | -336157. | 8.744 | -468586. | -202062. | 5.827 | -312286. | -206131. | 5.998 |
| MONTHLY SUMMARY (MAR) | | | | | | | | |
| MN | -436190. | 8.744 | -468586. | -274155. | 5.827 | -312286. | -280850. | 5.998 |
| MX | -7. | 8.744 | -468586. | -7. | 5.827 | -312286. | -6. | 5.998 |
| SM | -212374368. | 6505.630 | -348628128. | -122874232. | 4335.633 | -232340784. | -125375040. | 4462.252 |
| AV | -285449. | 8.744 | -468586. | -165154. | 5.827 | -312286. | -168515. | 5.998 |
| MONTHLY SUMMARY (APR) | | | | | | | | |
| MN | -398402. | 8.744 | -468586. | -247121. | 5.827 | -312286. | -252276. | 5.998 |
| MX | -2. | 8.744 | -468586. | -1. | 5.827 | -312286. | -1. | 5.998 |
| SM | -157983616. | 6295.771 | -337382048. | -88213032. | 4195.774 | -224845920. | -90282080. | 4318.309 |
| AV | -219422. | 8.744 | -468586. | -122518. | 5.827 | -312286. | -125392. | 5.998 |
| MONTHLY SUMMARY (MAY) | | | | | | | | |
| MN | 0. | 8.744 | 0. | 0. | 5.827 | 0. | 0. | 5.998 |
| MX | 0. | 8.744 | 0. | 0. | 5.827 | 0. | 0. | 5.998 |
| SM | 0. | 6505.630 | 0. | 0. | 4335.633 | 0. | 0. | 4462.252 |
| AV | 0. | 8.744 | 0. | 0. | 5.827 | 0. | 0. | 5.998 |
| MONTHLY SUMMARY (JUN) | | | | | | | | |
| MN | 0. | 8.744 | 0. | 0. | 5.827 | 0. | 0. | 5.998 |
| MX | 0. | 8.744 | 0. | 0. | 5.827 | 0. | 0. | 5.998 |
| SM | 0. | 6295.771 | 0. | 0. | 4195.774 | 0. | 0. | 4318.309 |
| AV | 0. | 8.744 | 0. | 0. | 5.827 | 0. | 0. | 5.998 |
| MONTHLY SUMMARY (JUL) | | | | | | | | |
| MN | 0. | 8.744 | 0. | 0. | 5.827 | 0. | 0. | 5.998 |
| MX | 0. | 8.744 | 0. | 0. | 5.827 | 0. | 0. | 5.998 |
| SM | 0. | 6505.630 | 0. | 0. | 4335.633 | 0. | 0. | 4462.252 |
| AV | 0. | 8.744 | 0. | 0. | 5.827 | 0. | 0. | 5.998 |

| | AHU-1 | AHU-1 | AHU-1 | AHU-2 | AHU-2 | AHU-2 | AHU-3 | AHU-3 |
|-----------------------|-------------------------------|--------------------------|-------------------------------|-------------------------------|--------------------------|-------------------------------|-------------------------------|--------------------------|
| | TOT HTG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | HEATING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | HEATING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR | SUPPLY ELECTRIC KW |
| | ----(5) | ----(49) | ----(78) | ----(5) | ----(49) | ----(78) | ----(5) | ----(49) |
| MONTHLY SUMMARY (AUG) | | | | | | | | |
| MN | 0. | 8.744 | 0. | 0. | 5.827 | 0. | 0. | 5.998 |
| MX | 0. | 8.744 | 0. | 0. | 5.827 | 0. | 0. | 5.998 |
| SM | 0. | 6505.630 | 0. | 0. | 4335.633 | 0. | 0. | 4462.252 |
| AV | 0. | 8.744 | 0. | 0. | 5.827 | 0. | 0. | 5.998 |
| MONTHLY SUMMARY (SEP) | | | | | | | | |
| MN | 0. | 8.744 | 0. | 0. | 5.827 | 0. | 0. | 5.998 |
| MX | 0. | 8.744 | 0. | 0. | 5.827 | 0. | 0. | 5.998 |
| SM | 0. | 6295.771 | 0. | 0. | 4195.774 | 0. | 0. | 4318.309 |
| AV | 0. | 8.744 | 0. | 0. | 5.827 | 0. | 0. | 5.998 |
| MONTHLY SUMMARY (OCT) | | | | | | | | |
| MN | -443960. | 8.744 | -468586. | -293460. | 5.827 | -312286. | -304172. | 5.998 |
| MX | 0. | 8.744 | 0. | 0. | 5.827 | 0. | 0. | 5.998 |
| SM | -87302840. | 6505.630 | -179937040. | -51603120. | 4335.633 | -119917824. | -52746460. | 4462.252 |
| AV | -117343. | 8.744 | -241851. | -69359. | 5.827 | -161180. | -70896. | 5.998 |
| MONTHLY SUMMARY (NOV) | | | | | | | | |
| MN | -396478. | 8.744 | -468586. | -262356. | 5.827 | -312286. | -268322. | 5.998 |
| MX | 0. | 8.744 | -468586. | 0. | 5.827 | -312286. | 0. | 5.998 |
| SM | -191351312. | 6295.771 | -337382048. | -113463168. | 4195.774 | -224845920. | -116052664. | 4318.309 |
| AV | -265766. | 8.744 | -468586. | -157588. | 5.827 | -312286. | -161184. | 5.998 |
| MONTHLY SUMMARY (DEC) | | | | | | | | |
| MN | -426039. | 8.744 | -468586. | -271123. | 5.827 | -312286. | -277285. | 5.998 |
| MX | -55341. | 8.744 | -468586. | -13493. | 5.827 | -312286. | -14376. | 5.998 |
| SM | -248829152. | 6505.630 | -348628128. | -150078480. | 4335.633 | -232340784. | -153529600. | 4462.252 |
| AV | -334448. | 8.744 | -468586. | -201718. | 5.827 | -312286. | -206357. | 5.998 |
| YEARLY SUMMARY | | | | | | | | |
| MN | -443960. | 8.744 | -468586. | -293460. | 5.827 | -312286. | -304172. | 5.998 |
| MX | 0. | 8.744 | 0. | 0. | 5.827 | 0. | 0. | 5.998 |
| SM | -1379449088. | 76598.547 | -2215475456. | -815549184. | 51048.578 | -1476488192. | -833208768. | 52539.426 |
| AV | -157471. | 8.744 | -252908. | -93099. | 5.827 | -168549. | -95115. | 5.998 |

| MMDDHH | AHU-3 | AHU-4 | AHU-4 | AHU-4 | AHU-5 | AHU-5 | AHU-5 | AHU-6 |
|-----------------------|-------------------------------|-------------------------------|--------------------------|-------------------------------|-------------------------------|--------------------------|-------------------------------|-------------------------------|
| | HEATING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | HEATING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | HEATING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR |
| | ----(78) | ----(5) | ----(49) | ----(78) | ----(5) | ----(49) | ----(78) | ----(5) |
| MONTHLY SUMMARY (JAN) | | | | | | | | |
| MN | -321406. | -290896. | 5.827 | -312286. | -298077. | 5.998 | -321406. | -337314. |
| MX | -321406. | -89584. | 5.827 | -312286. | -86697. | 5.998 | -321406. | -126689. |
| SM | -239126080. | -153531424. | 4335.633 | -232340784. | -156702752. | 4462.252 | -239126080. | -189485424. |
| AV | -321406. | -206359. | 5.827 | -312286. | -210622. | 5.998 | -321406. | -254685. |
| MONTHLY SUMMARY (FEB) | | | | | | | | |
| MN | -321406. | -293438. | 5.827 | -312286. | -302007. | 5.998 | -321406. | -339245. |
| MX | -321406. | -143. | 5.827 | -312286. | -1393. | 5.998 | -321406. | -11324. |
| SM | -215984848. | -135785728. | 3916.056 | -209856192. | -138520176. | 4030.421 | -215984848. | -166798832. |
| AV | -321406. | -202062. | 5.827 | -312286. | -206131. | 5.998 | -321406. | -248213. |
| MONTHLY SUMMARY (MAR) | | | | | | | | |
| MN | -321406. | -274155. | 5.827 | -312286. | -280850. | 5.998 | -321406. | -327431. |
| MX | -321406. | -7. | 5.827 | -312286. | -6. | 5.998 | -321406. | -7. |
| SM | -239126080. | -122874232. | 4335.633 | -232340784. | -125375040. | 4462.252 | -239126080. | -152862832. |
| AV | -321406. | -165154. | 5.827 | -312286. | -168515. | 5.998 | -321406. | -205461. |
| MONTHLY SUMMARY (APR) | | | | | | | | |
| MN | -321406. | -247121. | 5.827 | -312286. | -252276. | 5.998 | -321406. | -297662. |
| MX | -321406. | -1. | 5.827 | -312286. | -1. | 5.998 | -321406. | -1. |
| SM | -231412336. | -88213032. | 4195.774 | -224845920. | -90282080. | 4318.309 | -231412336. | -110714744. |
| AV | -321406. | -122518. | 5.827 | -312286. | -125392. | 5.998 | -321406. | -153770. |
| MONTHLY SUMMARY (MAY) | | | | | | | | |
| MN | 0. | 0. | 5.827 | 0. | 0. | 5.998 | 0. | 0. |
| MX | 0. | 0. | 5.827 | 0. | 0. | 5.998 | 0. | 0. |
| SM | 0. | 0. | 4335.633 | 0. | 0. | 4462.252 | 0. | 0. |
| AV | 0. | 0. | 5.827 | 0. | 0. | 5.998 | 0. | 0. |
| MONTHLY SUMMARY (JUN) | | | | | | | | |
| MN | 0. | 0. | 5.827 | 0. | 0. | 5.998 | 0. | 0. |
| MX | 0. | 0. | 5.827 | 0. | 0. | 5.998 | 0. | 0. |
| SM | 0. | 0. | 4195.774 | 0. | 0. | 4318.309 | 0. | 0. |
| AV | 0. | 0. | 5.827 | 0. | 0. | 5.998 | 0. | 0. |
| MONTHLY SUMMARY (JUL) | | | | | | | | |
| MN | 0. | 0. | 5.827 | 0. | 0. | 5.998 | 0. | 0. |
| MX | 0. | 0. | 5.827 | 0. | 0. | 5.998 | 0. | 0. |
| SM | 0. | 0. | 4335.633 | 0. | 0. | 4462.252 | 0. | 0. |
| AV | 0. | 0. | 5.827 | 0. | 0. | 5.998 | 0. | 0. |

| | AHU-3 | AHU-4 | AHU-4 | AHU-4 | AHU-5 | AHU-5 | AHU-5 | AHU-6 |
|-----------------------|-------------------------------|-------------------------------|--------------------------|-------------------------------|-------------------------------|--------------------------|-------------------------------|-------------------------------|
| | HEATING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | HEATING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | HEATING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR |
| | ----(78) | ----(5) | ----(49) | ----(78) | ----(5) | ----(49) | ----(78) | ----(5) |
| MONTHLY SUMMARY (AUG) | | | | | | | | |
| MN | 0. | 0. | 5.827 | 0. | 0. | 5.998 | 0. | 0. |
| MX | 0. | 0. | 5.827 | 0. | 0. | 5.998 | 0. | 0. |
| SM | 0. | 0. | 4335.633 | 0. | 0. | 4462.252 | 0. | 0. |
| AV | 0. | 0. | 5.827 | 0. | 0. | 5.998 | 0. | 0. |
| MONTHLY SUMMARY (SEP) | | | | | | | | |
| MN | 0. | 0. | 5.827 | 0. | 0. | 5.998 | 0. | 0. |
| MX | 0. | 0. | 5.827 | 0. | 0. | 5.998 | 0. | 0. |
| SM | 0. | 0. | 4195.774 | 0. | 0. | 4318.309 | 0. | 0. |
| AV | 0. | 0. | 5.827 | 0. | 0. | 5.998 | 0. | 0. |
| MONTHLY SUMMARY (OCT) | | | | | | | | |
| MN | -321406. | -293460. | 5.827 | -312286. | -304172. | 5.998 | -321406. | -340150. |
| MX | 0. | 0. | 5.827 | 0. | 0. | 5.998 | 0. | 0. |
| SM | -123419912. | -51603120. | 4335.633 | -119917824. | -52746460. | 4462.252 | -123419912. | -63547928. |
| AV | -165887. | -69359. | 5.827 | -161180. | -70896. | 5.998 | -165887. | -85414. |
| MONTHLY SUMMARY (NOV) | | | | | | | | |
| MN | -321406. | -262356. | 5.827 | -312286. | -268322. | 5.998 | -321406. | -307015. |
| MX | -321406. | 0. | 5.827 | -312286. | 0. | 5.998 | -321406. | 0. |
| SM | -231412336. | -113463168. | 4195.774 | -224845920. | -116052664. | 4318.309 | -231412336. | -140530272. |
| AV | -321406. | -157588. | 5.827 | -312286. | -161184. | 5.998 | -321406. | -195181. |
| MONTHLY SUMMARY (DEC) | | | | | | | | |
| MN | -321406. | -271123. | 5.827 | -312286. | -277285. | 5.998 | -321406. | -321997. |
| MX | -321406. | -13493. | 5.827 | -312286. | -14376. | 5.998 | -321406. | -32172. |
| SM | -239126080. | -150078480. | 4335.633 | -232340784. | -153529600. | 4462.252 | -239126080. | -184894384. |
| AV | -321406. | -201718. | 5.827 | -312286. | -206357. | 5.998 | -321406. | -248514. |
| YEARLY SUMMARY | | | | | | | | |
| MN | -321406. | -293460. | 5.827 | -312286. | -304172. | 5.998 | -321406. | -340150. |
| MX | 0. | 0. | 5.827 | 0. | 0. | 5.998 | 0. | 0. |
| SM | -1519607552. | -815549184. | 51048.578 | -1476488192. | -833208768. | 52539.426 | -1519607552. | -1008834368. |
| AV | -173471. | -93099. | 5.827 | -168549. | -95115. | 5.998 | -173471. | -115164. |

| MMDDHH | AHU-6 | AHU-6 | AHU-7 | AHU-7 | AHU-7 | AHU-8 | AHU-8 | AHU-8 |
|-----------------------|--------------------------|-------------------------------|-------------------------------|--------------------------|-------------------------------|-------------------------------|--------------------------|-------------------------------|
| | SUPPLY ELECTRIC KW | HEATING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | HEATING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | HEATING CAPACITY BTU/HR |
| | ----(49) | ----(78) | ----(5) | ----(49) | ----(78) | ----(5) | ----(49) | ----(78) |
| MONTHLY SUMMARY (JAN) | | | | | | | | |
| MN | 6.737 | -361032. | -342994. | 6.890 | -369208. | -187554. | 2.758 | -179073. |
| MX | 6.737 | -361032. | -123293. | 6.890 | -369208. | -109798. | 2.758 | -179073. |
| SM | 5012.394 | -268607360. | -192241104. | 5125.914 | -274690784. | -121120848. | 2052.112 | -133230512. |
| AV | 6.737 | -361031. | -258389. | 6.890 | -369208. | -162797. | 2.758 | -179073. |
| MONTHLY SUMMARY (FEB) | | | | | | | | |
| MN | 6.737 | -361032. | -346928. | 6.890 | -369208. | -197097. | 2.758 | -179073. |
| MX | 6.737 | -361032. | -11963. | 6.890 | -369208. | -92445. | 2.758 | -179073. |
| SM | 4527.324 | -242613088. | -169147776. | 4629.858 | -248107808. | -112495736. | 1853.521 | -120337232. |
| AV | 6.737 | -361031. | -251708. | 6.890 | -369208. | -167404. | 2.758 | -179073. |
| MONTHLY SUMMARY (MAR) | | | | | | | | |
| MN | 6.737 | -361032. | -333564. | 6.890 | -369208. | -195943. | 2.758 | -179073. |
| MX | 6.737 | -361032. | -7. | 6.890 | -369208. | -36494. | 2.758 | -179073. |
| SM | 5012.394 | -268607360. | -154975952. | 5125.914 | -274690784. | -119968120. | 2052.112 | -133230512. |
| AV | 6.737 | -361031. | -208301. | 6.890 | -369208. | -161247. | 2.758 | -179073. |
| MONTHLY SUMMARY (APR) | | | | | | | | |
| MN | 6.737 | -361032. | -302246. | 6.890 | -369208. | -186668. | 2.758 | -179073. |
| MX | 6.737 | -361032. | 0. | 6.890 | -369208. | -14512. | 2.758 | -179073. |
| SM | 4850.704 | -259942592. | -112492848. | 4960.562 | -265829792. | -102786792. | 1985.915 | -128932752. |
| AV | 6.737 | -361031. | -156240. | 6.890 | -369208. | -142759. | 2.758 | -179073. |
| MONTHLY SUMMARY (MAY) | | | | | | | | |
| MN | 6.737 | 0. | 0. | 6.890 | 0. | 0. | 2.758 | 0. |
| MX | 6.737 | 0. | 0. | 6.890 | 0. | 0. | 2.758 | 0. |
| SM | 5012.394 | 0. | 0. | 5125.914 | 0. | 0. | 2052.112 | 0. |
| AV | 6.737 | 0. | 0. | 6.890 | 0. | 0. | 2.758 | 0. |
| MONTHLY SUMMARY (JUN) | | | | | | | | |
| MN | 6.737 | 0. | 0. | 6.890 | 0. | 0. | 2.758 | 0. |
| MX | 6.737 | 0. | 0. | 6.890 | 0. | 0. | 2.758 | 0. |
| SM | 4850.704 | 0. | 0. | 4960.562 | 0. | 0. | 1985.915 | 0. |
| AV | 6.737 | 0. | 0. | 6.890 | 0. | 0. | 2.758 | 0. |
| MONTHLY SUMMARY (JUL) | | | | | | | | |
| MN | 6.737 | 0. | 0. | 6.890 | 0. | 0. | 2.758 | 0. |
| MX | 6.737 | 0. | 0. | 6.890 | 0. | 0. | 2.758 | 0. |
| SM | 5012.394 | 0. | 0. | 5125.914 | 0. | 0. | 2052.112 | 0. |
| AV | 6.737 | 0. | 0. | 6.890 | 0. | 0. | 2.758 | 0. |

| | AHU-6 | AHU-6 | AHU-7 | AHU-7 | AHU-7 | AHU-8 | AHU-8 | AHU-8 |
|-----------------------|--------------------------|-------------------------------|-------------------------------|--------------------------|-------------------------------|-------------------------------|--------------------------|-------------------------------|
| | SUPPLY ELECTRIC KW | HEATING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | HEATING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | HEATING CAPACITY BTU/HR |
| | ----(49) | ----(78) | ----(5) | ----(49) | ----(78) | ----(5) | ----(49) | ----(78) |
| MONTHLY SUMMARY (AUG) | | | | | | | | |
| MN | 6.737 | 0. | 0. | 6.890 | 0. | 0. | 2.758 | 0. |
| MX | 6.737 | 0. | 0. | 6.890 | 0. | 0. | 2.758 | 0. |
| SM | 5012.394 | 0. | 0. | 5125.914 | 0. | 0. | 2052.112 | 0. |
| AV | 6.737 | 0. | 0. | 6.890 | 0. | 0. | 2.758 | 0. |
| MONTHLY SUMMARY (SEP) | | | | | | | | |
| MN | 6.737 | 0. | 0. | 6.890 | 0. | 0. | 2.758 | 0. |
| MX | 6.737 | 0. | 0. | 6.890 | 0. | 0. | 2.758 | 0. |
| SM | 4850.704 | 0. | 0. | 4960.562 | 0. | 0. | 1985.915 | 0. |
| AV | 6.737 | 0. | 0. | 6.890 | 0. | 0. | 2.758 | 0. |
| MONTHLY SUMMARY (OCT) | | | | | | | | |
| MN | 6.737 | -361032. | -349804. | 6.890 | -369208. | -178229. | 2.758 | -179073. |
| MX | 6.737 | 0. | 0. | 6.890 | 0. | 0. | 2.758 | 0. |
| SM | 5012.394 | -138636064. | -64516248. | 5125.914 | -141775904. | -30923434. | 2052.112 | -68764112. |
| AV | 6.737 | -186339. | -86715. | 6.890 | -190559. | -41564. | 2.758 | -92425. |
| MONTHLY SUMMARY (NOV) | | | | | | | | |
| MN | 6.737 | -361032. | -312418. | 6.890 | -369208. | -168087. | 2.758 | -179073. |
| MX | 6.737 | -361032. | 0. | 6.890 | -369208. | -15. | 2.758 | -179073. |
| SM | 4850.704 | -259942592. | -142760624. | 4960.562 | -265829792. | -76514864. | 1985.915 | -128932752. |
| AV | 6.737 | -361031. | -198279. | 6.890 | -369208. | -106271. | 2.758 | -179073. |
| MONTHLY SUMMARY (DEC) | | | | | | | | |
| MN | 6.737 | -361032. | -327592. | 6.890 | -369208. | -170093. | 2.758 | -179073. |
| MX | 6.737 | -361032. | -32824. | 6.890 | -369208. | -44668. | 2.758 | -179073. |
| SM | 5012.394 | -268607360. | -187924160. | 5125.914 | -274690784. | -109070104. | 2052.112 | -133230512. |
| AV | 6.737 | -361031. | -252586. | 6.890 | -369208. | -146600. | 2.758 | -179073. |
| YEARLY SUMMARY | | | | | | | | |
| MN | 6.737 | -361032. | -349804. | 6.890 | -369208. | -197097. | 2.758 | -179073. |
| MX | 6.737 | 0. | 0. | 6.890 | 0. | 0. | 2.758 | 0. |
| SM | 59016.898 | -1706956416. | -1024058688. | 60353.508 | -1745615616. | -672879872. | 24161.969 | -846658368. |
| AV | 6.737 | -194858. | -116902. | 6.890 | -199271. | -76813. | 2.758 | -96651. |

| MMDDHH | AHU-9 | AHU-9 | AHU-9 |
|-----------------------|-------------------------------|--------------------------|-------------------------------|
| | TOT HTG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | HEATING CAPACITY BTU/HR |
| | ---- (5) | ---- (49) | ---- (78) |
| MONTHLY SUMMARY (JAN) | | | |
| MN | -201960. | 3.239 | -210316. |
| MX | -121343. | 3.239 | -210316. |
| SM | -136985504. | 2410.141 | -156474944. |
| AV | -184120. | 3.239 | -210316. |
| MONTHLY SUMMARY (FEB) | | | |
| MN | -227505. | 3.239 | -210316. |
| MX | -89892. | 3.239 | -210316. |
| SM | -128790616. | 2176.901 | -141332192. |
| AV | -191653. | 3.239 | -210316. |
| MONTHLY SUMMARY (MAR) | | | |
| MN | -221317. | 3.239 | -210316. |
| MX | -30554. | 3.239 | -210316. |
| SM | -135708736. | 2410.141 | -156474944. |
| AV | -182404. | 3.239 | -210316. |
| MONTHLY SUMMARY (APR) | | | |
| MN | -215390. | 3.239 | -210316. |
| MX | -11506. | 3.239 | -210316. |
| SM | -113795200. | 2332.394 | -151427360. |
| AV | -158049. | 3.239 | -210316. |
| MONTHLY SUMMARY (MAY) | | | |
| MN | 0. | 3.239 | 0. |
| MX | 0. | 3.239 | 0. |
| SM | 0. | 2410.141 | 0. |
| AV | 0. | 3.239 | 0. |
| MONTHLY SUMMARY (JUN) | | | |
| MN | 0. | 3.239 | 0. |
| MX | 0. | 3.239 | 0. |
| SM | 0. | 2332.394 | 0. |
| AV | 0. | 3.239 | 0. |
| MONTHLY SUMMARY (JUL) | | | |
| MN | 0. | 3.239 | 0. |
| MX | 0. | 3.239 | 0. |
| SM | 0. | 2410.141 | 0. |
| AV | 0. | 3.239 | 0. |

| | AHU-9 | AHU-9 | AHU-9 |
|-----------------------|-------------------------------|--------------------------|-------------------------------|
| | TOT HTG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | HEATING CAPACITY BTU/HR |
| | ----(5) | ----(49) | ----(78) |
| MONTHLY SUMMARY (AUG) | | | |
| MN | 0. | 3.239 | 0. |
| MX | 0. | 3.239 | 0. |
| SM | 0. | 2410.141 | 0. |
| AV | 0. | 3.239 | 0. |
| MONTHLY SUMMARY (SEP) | | | |
| MN | 0. | 3.239 | 0. |
| MX | 0. | 3.239 | 0. |
| SM | 0. | 2332.394 | 0. |
| AV | 0. | 3.239 | 0. |
| MONTHLY SUMMARY (OCT) | | | |
| MN | -209076. | 3.239 | -210316. |
| MX | 0. | 3.239 | 0. |
| SM | -35983632. | 2410.141 | -80761264. |
| AV | -48365. | 3.239 | -108550. |
| MONTHLY SUMMARY (NOV) | | | |
| MN | -184892. | 3.239 | -210316. |
| MX | -15. | 3.239 | -210316. |
| SM | -86462528. | 2332.394 | -151427360. |
| AV | -120087. | 3.239 | -210316. |
| MONTHLY SUMMARY (DEC) | | | |
| MN | -199734. | 3.239 | -210316. |
| MX | -50457. | 3.239 | -210316. |
| SM | -121442312. | 2410.141 | -156474944. |
| AV | -163229. | 3.239 | -210316. |
| YEARLY SUMMARY | | | |
| MN | -227505. | 3.239 | -210316. |
| MX | 0. | 3.239 | 0. |
| SM | -759168512. | 28377.465 | -994373056. |
| AV | -86663. | 3.239 | -113513. |

| S I T E E N E R G Y | | | | | | | | | | | | | * SOURCE |
|-----------------------|-----------------------|--------------------------|-------------------------|------------------|-----------------------------|--------------------------|--------------------------|--------------------------|--------------------------|------------------------|------------------------|-------------------------|---------------------------|
| MONTH | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| | TOTAL HEAT LOAD | TOTAL COOLING LOAD | TOTAL ELECTR LOAD | RCVRED ENERGY | WASTED RCVRABL ENERGY | FUEL INPUT COOLING | ELEC INPUT COOLING | FUEL INPUT HEATING | ELEC INPUT HEATING | FUEL INPUT ELECT | TOTAL FUEL INFUT | TOTAL SITE ENERGY | TOTAL SOURCE ENERGY |
| JAN | 1535.6 | 0.0 | 435.3 127.5E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 2120.1 | 71.8 21.0E | 0.0 | 2120.1 | 2555.4 | 3427.4 |
| FEB | 1369.5 | 0.0 | 393.0 115.1E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 1891.5 | 64.3 18.8E | 0.0 | 1891.5 | 2284.4 | 3071.5 |
| MAR | 1292.0 | 0.0 | 450.6 132.0E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 1825.8 | 69.3 20.3E | 0.0 | 1825.8 | 2276.4 | 3179.1 |
| APR | 973.8 | 0.0 | 417.5 122.3E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 1406.0 | 59.7 17.5E | 0.0 | 1406.0 | 1823.5 | 2659.9 |
| MAY | 0.0 | 156.6 | 491.6 144.0E | 0.0 | 0.0 | 0.0 | 128.1 37.5E | 0.0 | 0.0 0.0E | 0.0 | 0.0 | 491.6 | 1476.3 |
| JUN | 0.0 | 423.3 | 595.9 174.5E | 0.0 | 0.0 | 0.0 | 229.2 67.1E | 0.0 | 0.0 0.0E | 0.0 | 0.0 | 595.9 | 1789.5 |
| JUL | 0.0 | 648.1 | 666.6 195.2E | 0.0 | 0.0 | 0.0 | 312.0 91.4E | 0.0 | 0.0 0.0E | 0.0 | 0.0 | 666.6 | 2001.9 |
| AUG | 0.0 | 608.3 | 673.2 197.1E | 0.0 | 0.0 | 0.0 | 291.8 85.5E | 0.0 | 0.0 0.0E | 0.0 | 0.0 | 673.2 | 2021.5 |
| SEP | 0.0 | 332.9 | 549.7 161.0E | 0.0 | 0.0 | 0.0 | 191.8 56.2E | 0.0 | 0.0 0.0E | 0.0 | 0.0 | 549.7 | 1650.7 |
| OCT | 501.1 | 206.2 | 529.4 155.0E | 0.0 | 0.0 | 0.0 | 142.0 41.6E | 733.9 | 32.8 9.6E | 0.0 | 733.9 | 1263.3 | 2323.7 |
| NOV | 1115.6 | 0.0 | 411.9 120.6E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 1589.1 | 63.0 18.5E | 0.0 | 1589.1 | 2001.0 | 2826.1 |
| DEC | 1479.0 | 0.0 | 435.0 127.4E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 2053.9 | 71.5 20.9E | 0.0 | 2053.9 | 2488.9 | 3360.3 |
| | 8266.6 | 2375.3 | 6049.8 1771.8E | 0.0 | 0.0 | 0.0 | 1294.8 379.2E | 11620.2 | 432.4 126.6E | 0.0 | 11620.2 | 17670.0 | 29787.7 |

NOTE-- ALL ENTRIES ARE IN MBTU EXCEPT
 ENTRIES FOLLOWED BY E ARE IN MWH (THOUSANDS OF KWH)

| MO | UTILITY- | ELECTRICITY | NATURAL-GAS |
|-----|--------------|-------------|-------------|
| | TOTAL (MBTU) | 435.341 | 2120.061 |
| JAN | PEAK (KBTU) | 1224.857 | 3560.230 |
| | DY/HR | 31/17 | 16/21 |
| | TOTAL (MBTU) | 392.955 | 1891.492 |
| FEB | PEAK (KBTU) | 1224.857 | 3581.028 |
| | DY/HR | 28/ 9 | 12/ 6 |
| | TOTAL (MBTU) | 450.642 | 1825.799 |
| MAR | PEAK (KBTU) | 1224.857 | 3459.071 |
| | DY/HR | 31/17 | 5/ 8 |
| | TOTAL (MBTU) | 417.541 | 1405.998 |
| APR | PEAK (KBTU) | 1224.857 | 3221.431 |
| | DY/HR | 29/ 9 | 9/ 7 |
| | TOTAL (MBTU) | 491.591 | 0.000 |
| MAY | PEAK (KBTU) | 1720.365 | 0.000 |
| | DY/HR | 26/17 | 31/ 1 |
| | TOTAL (MBTU) | 595.906 | 0.000 |
| JUN | PEAK (KBTU) | 2036.384 | 0.000 |
| | DY/HR | 10/16 | 30/ 1 |
| | TOTAL (MBTU) | 666.622 | 0.000 |
| JUL | PEAK (KBTU) | 2085.890 | 0.000 |
| | DY/HR | 25/16 | 31/ 1 |
| | TOTAL (MBTU) | 673.152 | 0.000 |
| AUG | PEAK (KBTU) | 2080.196 | 0.000 |
| | DY/HR | 18/17 | 31/ 1 |
| | TOTAL (MBTU) | 549.670 | 0.000 |
| SEP | PEAK (KBTU) | 1984.596 | 0.000 |
| | DY/HR | 2/14 | 30/ 1 |
| | TOTAL (MBTU) | 529.402 | 733.880 |
| OCT | PEAK (KBTU) | 1793.101 | 3596.546 |
| | DY/HR | 18/15 | 16/ 9 |
| | TOTAL (MBTU) | 411.936 | 1589.100 |
| NOV | PEAK (KBTU) | 1224.857 | 3295.627 |
| | DY/HR | 30/17 | 25/ 7 |
| | TOTAL (MBTU) | 435.020 | 2053.885 |
| DEC | PEAK (KBTU) | 1224.857 | 3414.721 |
| | DY/HR | 30/17 | 6/ 5 |
| | ONE YEAR | 6049.779 | 11620.216 |
| | USE/PEAK | 2085.890 | 3596.546 |

KNTTECH ENGINEERING
READING, PA 19603
REPORT- PS-D PLANT LOADS SATISFIED

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
FT. GEORGE G. MEADE

DOB-2.1D 12/ 8/1995 14:25:14 PDL RUN 1
EMCS STUDY WEATHER FILE- BALTIMORE, MD

| HEATING LOADS | MBTU SUPPLIED | PCT OF TOTAL LOAD |
|---------------------|---------------|-------------------|
| ----- | ----- | ----- |
| HW-BOILER | 8266.6 | 100.0 |
| | ----- | ----- |
| LOAD SATISFIED | 8266.6 | 100.0 |
| TOTAL LOAD ON PLANT | 8266.6 | |

| COOLING LOADS | MBTU SUPPLIED | PCT OF TOTAL LOAD |
|---------------------|---------------|-------------------|
| ----- | ----- | ----- |
| HERM-REC-CHLR | 2375.3 | 100.0 |
| | ----- | ----- |
| LOAD SATISFIED | 2375.3 | 100.0 |
| TOTAL LOAD ON PLANT | 2375.3 | |

| ELECTRICAL LOADS | MBTU SUPPLIED | PCT OF TOTAL LOAD |
|---------------------|---------------|-------------------|
| ----- | ----- | ----- |
| ELECTRICITY | 6049.8 | 100.0 |
| | ----- | ----- |
| LOAD SATISFIED | 6049.8 | 100.0 |
| TOTAL LOAD ON PLANT | 6049.4 | |

ENTECH ENGINEERING
READING, PA 19603
REPORT- PS-D PLANT LOADS SATISFIED

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
FT. GEORGE G. MEADE

DOB-2.1D 12/ 8/1995 14:25:14 PDL RUN 1
EMCS STUDY

WEATHER FILE- BALTIMORE, MD

(CONTINUED)

SUMMARY OF LOADS MET

| TYPE OF LOAD | TOTAL LOAD (MBTU) | LOAD SATISFIED (MBTU) | TOTAL OVERLOAD (MBTU) | PEAK OVERLOAD (MBTU) | HOURS OVERLOADED |
|------------------|-------------------------|-----------------------------|-----------------------------|----------------------------|---------------------|
| HEATING LOADS | 8266.6 | 8266.6 | 0.000 | 0.000 | 0 |
| COOLING LOADS | 2375.3 | 2375.3 | 0.000 | 0.000 | 0 |
| ELECTRICAL LOADS | 6049.4 | 6049.8 | 0.000 | 0.000 | 0 |

ENTECH ENGINEERING
 READING, PA 19603
 REPORT- PS-H EQUIPMENT USE STATISTICS

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
 FT. GEORGE G. MEADE

DOB-2.1D 12/ 8/1995 14:25:14 PDL RUN 1
 EMCS STUDY WEATHER FILE- BALTIMORE, MD

| EQUIPMENT | AVG | MAX | MON | | SIZE OPER | | SIZE OPER | | SIZE OPER | | SIZE OPER | |
|---------------|---------------|----------------|-----|----|-----------|-------|-----------|-----|-----------|-----|-----------|-----|
| | OPER RATIO | LOAD (MBTU) | DAY | HR | (MBTU) | HRS | (MBTU) | HRS | (MBTU) | HRS | (MBTU) | HRS |
| HW-BOILER | 0.460 | 2.728 | 10 | 16 | 9 | 3.800 | 4728 | | | | | |
| HERM-REC-CHLR | 0.193 | 2.653 | 8 | 18 | 17 | 2.800 | 4392 | | | | | |

ENTECH ENGINEERING
READING, PA 19603
REPORT- PS-I EQUIPMENT LIFE CYCLE COSTS

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
FT. GEORGE G. MEADE

DOE-2.1D 12/ 8/1995 14:25:14 PDL RUN 1
EMCS STUDY WEATHER FILE- BALTIMORE, MD

EQUIPMENT TOTALS

| | | | |
|-----------------------|------|-------|------|
| HW-BOILER | 95.7 | | |
| NOMINAL SIZE (MBTU) | | 3.800 | |
| NUMBER INSTALLED | | | 1 |
| FIRST COST (K\$) | 86.8 | 86.8 | |
| ANNUAL COST (K\$) | 1.1 | 1.1 | |
| CYCLICAL COST (K\$) | 7.8 | 7.8 | |
| -----TOTAL----- (K\$) | | | 95.7 |

| | | | |
|-----------------------|-------|-------|-------|
| HERM-REC-CHLR | 107.2 | | |
| NOMINAL SIZE (MBTU) | | 2.800 | |
| NUMBER INSTALLED | | | 2 |
| FIRST COST (K\$) | 90.5 | 90.5 | |
| ANNUAL COST (K\$) | 10.9 | 10.9 | |
| CYCLICAL COST (K\$) | 5.8 | 5.8 | |
| -----TOTAL----- (K\$) | | | 107.2 |

EQUIPMENT TOTAL 202.8

| ENERGY TYPE IN SITE MBTU - | ELECTRICITY | NATURAL-GAS |
|-------------------------------|-------------|-------------|
| CATEGORY OF USE | | |
| SPACE HEAT | 371.36 | 11620.20 |
| SPACE COOL | 943.72 | 0.00 |
| HVAC AUX | 1968.38 | 0.00 |
| DOM HOT WTR | 0.00 | 0.00 |
| AUX SOLAR | 0.00 | 0.00 |
| LIGHTS | 1913.42 | 0.00 |
| VERT TRANS | 0.00 | 0.00 |
| MISC EQUIP | 853.36 | 0.00 |
| TOTAL | 6050.23 | 11620.20 |

TOTAL SITE ENERGY 17670.00 MBTU 145.8 KBTU/SQFT-YR GROSS-AREA 145.8 KBTU/SQFT-YR NET-AREA
 TOTAL SOURCE ENERGY 29787.72 MBTU 245.8 KBTU/SQFT-YR GROSS-AREA 245.8 KBTU/SQFT-YR NET-AREA

PERCENT OF HOURS ANY SYSTEM ZONE OUTSIDE OF THROTTLING RANGE = 48.8
 PERCENT OF HOURS ANY PLANT LOAD NOT SATISFIED = 0.0

NOTE ELECTRICITY AND/OR FUEL USED TO GENERATE ELECTRICITY IS APPORTIONED BASED
 ON THE YEARLY DEMAND. ALL OTHER ENERGY TYPES ARE APPORTIONED HOURLY.

| MMDDHH | HERM-REC -CHLR ELECTRIC USE BTU/HR | HERM-REC -CHLR LOAD BTU/HR | HERM-REC -CHLR CONDENSER FAN ELEC BTU/HR | HW-BOILE R LOAD BTU/HR | HW-BOILE R FUEL USE BTU/HR | HW-BOILE R ELECTRIC USE BTU/HR |
|-----------------------|------------------------------------------------|-------------------------------------|------------------------------------------------------|---------------------------------|----------------------------------------|--------------------------------------------|
| | ----(3) | ----(1) | ----(18) | ----(1) | ----(4) | ----(3) |
| MONTHLY SUMMARY (JAN) | | | | | | |
| MN | 0. | 0. | 0. | 1055869. | 1678797. | 83600. |
| MX | 0. | 0. | 0. | 2694685. | 3560230. | 83600. |
| SM | 0. | 0. | 0. | 1535633664. | 2120061952. | 62198400. |
| AV | 0. | 0. | 0. | 2064024. | 2849546. | 83600. |
| MONTHLY SUMMARY (FEB) | | | | | | |
| MN | 0. | 0. | 0. | 267650. | 437377. | 23553. |
| MX | 0. | 0. | 0. | 2713510. | 3581028. | 83600. |
| SM | 0. | 0. | 0. | 1369465216. | 1891490432. | 55635840. |
| AV | 0. | 0. | 0. | 2037895. | 2814718. | 82791. |
| MONTHLY SUMMARY (MAR) | | | | | | |
| MN | 0. | 0. | 0. | 93491. | 152777. | 8227. |
| MX | 0. | 0. | 0. | 2603356. | 3459071. | 83600. |
| SM | 0. | 0. | 0. | 1292010880. | 1825798784. | 59673900. |
| AV | 0. | 0. | 0. | 1736574. | 2454031. | 80207. |
| MONTHLY SUMMARY (APR) | | | | | | |
| MN | 0. | 0. | 0. | 52394. | 85618. | 4611. |
| MX | 0. | 0. | 0. | 2390340. | 3221431. | 83600. |
| SM | 0. | 0. | 0. | 973752704. | 1405998464. | 50398544. |
| AV | 0. | 0. | 0. | 1352434. | 1952776. | 69998. |
| MONTHLY SUMMARY (MAY) | | | | | | |
| MN | 55869. | 127958. | 14331. | 0. | 0. | 0. |
| MX | 512072. | 1419959. | 78400. | 0. | 0. | 0. |
| SM | 68576432. | 156590192. | 16018904. | 0. | 0. | 0. |
| AV | 92173. | 210471. | 21531. | 0. | 0. | 0. |
| MONTHLY SUMMARY (JUN) | | | | | | |
| MN | 55869. | 127958. | 14331. | 0. | 0. | 0. |
| MX | 828090. | 2399618. | 78400. | 0. | 0. | 0. |
| SM | 171586544. | 423281024. | 31026686. | 0. | 0. | 0. |
| AV | 238315. | 587890. | 43093. | 0. | 0. | 0. |
| MONTHLY SUMMARY (JUL) | | | | | | |
| MN | 55869. | 127958. | 14331. | 0. | 0. | 0. |
| MX | 877597. | 2589726. | 78400. | 0. | 0. | 0. |
| SM | 252521088. | 648050816. | 43114356. | 0. | 0. | 0. |
| AV | 339410. | 871036. | 57949. | 0. | 0. | 0. |

| | HERM-REC -CHLR ELECTRIC USE BTU/HR | HERM-REC -CHLR LOAD BTU/HR | HERM-REC -CHLR CONDENSER FAN ELEC BTU/HR | HW-BOILE R LOAD BTU/HR | HW-BOILE R FUEL USE BTU/HR | HW-BOILE R ELECTRIC USE BTU/HR |
|-----------------------|------------------------------------------------|-------------------------------------|------------------------------------------------------|---------------------------------|----------------------------------------|--------------------------------------------|
| | ---- (3) | ---- (1) | ----(18) | ---- (1) | ----(4) | ----(3) |
| MONTHLY SUMMARY (AUG) | | | | | | |
| MN | 55869. | 127958. | 14331. | 0. | 0. | 0. |
| MX | 871903. | 2652918. | 78400. | 0. | 0. | 0. |
| SM | 232312048. | 608249600. | 38588352. | 0. | 0. | 0. |
| AV | 312247. | 817540. | 51866. | 0. | 0. | 0. |
| MONTHLY SUMMARY (SEP) | | | | | | |
| MN | 55869. | 127958. | 14331. | 0. | 0. | 0. |
| MX | 776303. | 2273596. | 78400. | 0. | 0. | 0. |
| SM | 134263104. | 332905632. | 25856538. | 0. | 0. | 0. |
| AV | 186477. | 462369. | 35912. | 0. | 0. | 0. |
| MONTHLY SUMMARY (OCT) | | | | | | |
| MN | 0. | 0. | 0. | 0. | 0. | 0. |
| MX | 555440. | 1623739. | 78400. | 2727567. | 3596546. | 83600. |
| SM | 84399168. | 206205120. | 19506464. | 501100896. | 733879936. | 27860880. |
| AV | 113440. | 277157. | 26218. | 673523. | 986398. | 37447. |
| MONTHLY SUMMARY (NOV) | | | | | | |
| MN | 0. | 0. | 0. | 26404. | 43148. | 2324. |
| MX | 0. | 0. | 0. | 2456620. | 3295627. | 83600. |
| SM | 0. | 0. | 0. | 1115640448. | 1589099264. | 53706204. |
| AV | 0. | 0. | 0. | 1549501. | 2207082. | 74592. |
| MONTHLY SUMMARY (DEC) | | | | | | |
| MN | 0. | 0. | 0. | 297574. | 486278. | 26187. |
| MX | 0. | 0. | 0. | 2563440. | 3414721. | 83600. |
| SM | 0. | 0. | 0. | 1478998400. | 2053884416. | 61877376. |
| AV | 0. | 0. | 0. | 1987901. | 2760597. | 83169. |
| YEARLY SUMMARY | | | | | | |
| MN | 0. | 0. | 0. | 0. | 0. | 0. |
| MX | 877597. | 2652918. | 78400. | 2727567. | 3596546. | 83600. |
| SM | 943658368. | 2375282432. | 174111312. | 8266602496. | 11620212736. | 371351136. |
| AV | 107724. | 271151. | 19876. | 943676. | 1326508. | 42392. |

BUILDING 4550
 NIGHT SETBACK ONLY.
 FILE: FTMD4550

| MMDDHH | AHU-1 | AHU-1 | AHU-1 | AHU-2 | AHU-2 | AHU-2 | AHU-3 | AHU-3 |
|-----------------------|-------------------------------|--------------------------|-------------------------------|-------------------------------|--------------------------|-------------------------------|-------------------------------|--------------------------|
| | TOT HTG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | HEATING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | HEATING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR | SUPPLY ELECTRIC KW |
| | ----(5) | ----(49) | ----(78) | ----(5) | ----(49) | ----(78) | ----(5) | ----(49) |
| MONTHLY SUMMARY (JAN) | | | | | | | | |
| MN | -496240. | 8.744 | -468586. | -330594. | 5.827 | -312286. | -340247. | 5.998 |
| MX | -33. | 8.744 | -468586. | -33. | 5.827 | -312286. | -29. | 5.998 |
| SM | -112497064. | 3252.818 | -174314064. | -62960336. | 2167.817 | -116170392. | -63814316. | 2231.126 |
| AV | -302411. | 8.744 | -468586. | -169248. | 5.827 | -312286. | -171544. | 5.998 |
| MONTHLY SUMMARY (FEB) | | | | | | | | |
| MN | -495920. | 8.744 | -468586. | -332924. | 5.827 | -312286. | -336776. | 5.998 |
| MX | -24. | 8.744 | -468586. | -24. | 5.827 | -312286. | -24. | 5.998 |
| SM | -97151288. | 2938.029 | -157444944. | -53934556. | 1958.028 | -104928096. | -54637044. | 2015.211 |
| AV | -289141. | 8.744 | -468586. | -160520. | 5.827 | -312286. | -162610. | 5.998 |
| MONTHLY SUMMARY (MAR) | | | | | | | | |
| MN | -492234. | 8.744 | -468586. | -330541. | 5.827 | -312286. | -340192. | 5.998 |
| MX | -8. | 8.744 | -468586. | -7. | 5.827 | -312286. | -7. | 5.998 |
| SM | -86516976. | 3252.818 | -174314064. | -43453192. | 2167.817 | -116170392. | -43895268. | 2231.126 |
| AV | -232573. | 8.744 | -468586. | -116810. | 5.827 | -312286. | -117998. | 5.998 |
| MONTHLY SUMMARY (APR) | | | | | | | | |
| MN | -482746. | 8.744 | -468586. | -324569. | 5.827 | -312286. | -328755. | 5.998 |
| MX | -2. | 8.744 | -468586. | 0. | 5.827 | -312286. | 0. | 5.998 |
| SM | -50663248. | 3147.888 | -168691024. | -21140704. | 2097.887 | -112422960. | -21473688. | 2159.155 |
| AV | -140731. | 8.744 | -468586. | -58724. | 5.827 | -312286. | -59649. | 5.998 |
| MONTHLY SUMMARY (MAY) | | | | | | | | |
| MN | 0. | 8.744 | 0. | 0. | 5.827 | 0. | 0. | 5.998 |
| MX | 0. | 8.744 | 0. | 0. | 5.827 | 0. | 0. | 5.998 |
| SM | 0. | 3252.818 | 0. | 0. | 2167.817 | 0. | 0. | 2231.126 |
| AV | 0. | 8.744 | 0. | 0. | 5.827 | 0. | 0. | 5.998 |
| MONTHLY SUMMARY (JUN) | | | | | | | | |
| MN | 0. | 8.744 | 0. | 0. | 5.827 | 0. | 0. | 5.998 |
| MX | 0. | 8.744 | 0. | 0. | 5.827 | 0. | 0. | 5.998 |
| SM | 0. | 3147.888 | 0. | 0. | 2097.887 | 0. | 0. | 2159.155 |
| AV | 0. | 8.744 | 0. | 0. | 5.827 | 0. | 0. | 5.998 |
| MONTHLY SUMMARY (JUL) | | | | | | | | |
| MN | 0. | 8.744 | 0. | 0. | 5.827 | 0. | 0. | 5.998 |
| MX | 0. | 8.744 | 0. | 0. | 5.827 | 0. | 0. | 5.998 |
| SM | 0. | 3252.818 | 0. | 0. | 2167.817 | 0. | 0. | 2231.126 |
| AV | 0. | 8.744 | 0. | 0. | 5.827 | 0. | 0. | 5.998 |

| | AHU-1 | AHU-1 | AHU-1 | AHU-2 | AHU-2 | AHU-2 | AHU-3 | AHU-3 |
|-----------------------|-------------------------------|--------------------------|-------------------------------|-------------------------------|--------------------------|-------------------------------|-------------------------------|--------------------------|
| | TOT HTG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | HEATING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | HEATING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR | SUPPLY ELECTRIC KW |
| | ----(5) | ----(49) | ----(78) | ----(5) | ----(49) | ----(78) | ----(5) | ----(49) |
| MONTHLY SUMMARY (AUG) | | | | | | | | |
| MN | 0. | 8.744 | 0. | 0. | 5.827 | 0. | 0. | 5.998 |
| MX | 0. | 8.744 | 0. | 0. | 5.827 | 0. | 0. | 5.998 |
| SM | 0. | 3252.818 | 0. | 0. | 2167.817 | 0. | 0. | 2231.126 |
| AV | 0. | 8.744 | 0. | 0. | 5.827 | 0. | 0. | 5.998 |
| MONTHLY SUMMARY (SEP) | | | | | | | | |
| MN | 0. | 8.744 | 0. | 0. | 5.827 | 0. | 0. | 5.998 |
| MX | 0. | 8.744 | 0. | 0. | 5.827 | 0. | 0. | 5.998 |
| SM | 0. | 3147.888 | 0. | 0. | 2097.887 | 0. | 0. | 2159.155 |
| AV | 0. | 8.744 | 0. | 0. | 5.827 | 0. | 0. | 5.998 |
| MONTHLY SUMMARY (OCT) | | | | | | | | |
| MN | -496146. | 8.744 | -468586. | -333037. | 5.827 | -312286. | -338105. | 5.998 |
| MX | 0. | 8.744 | 0. | 0. | 5.827 | 0. | 0. | 5.998 |
| SM | -28273814. | 3252.818 | -89968528. | -13615919. | 2167.817 | -59958912. | -13777088. | 2231.126 |
| AV | -76005. | 8.744 | -241851. | -36602. | 5.827 | -161180. | -37035. | 5.998 |
| MONTHLY SUMMARY (NOV) | | | | | | | | |
| MN | -495436. | 8.744 | -468586. | -333080. | 5.827 | -312286. | -340222. | 5.998 |
| MX | 0. | 8.744 | -468586. | 0. | 5.827 | -312286. | 0. | 5.998 |
| SM | -70205008. | 3147.888 | -168691024. | -36465880. | 2097.887 | -112422960. | -36984832. | 2159.155 |
| AV | -195014. | 8.744 | -468586. | -101294. | 5.827 | -312286. | -102736. | 5.998 |
| MONTHLY SUMMARY (DEC) | | | | | | | | |
| MN | -485971. | 8.744 | -468586. | -330567. | 5.827 | -312286. | -340211. | 5.998 |
| MX | -33. | 8.744 | -468586. | -33. | 5.827 | -312286. | -33. | 5.998 |
| SM | -106770608. | 3252.818 | -174314064. | -60011468. | 2167.817 | -116170392. | -61090688. | 2231.126 |
| AV | -287018. | 8.744 | -468586. | -161321. | 5.827 | -312286. | -164222. | 5.998 |
| YEARLY SUMMARY | | | | | | | | |
| MN | -496240. | 8.744 | -468586. | -333080. | 5.827 | -312286. | -340247. | 5.998 |
| MX | 0. | 8.744 | 0. | 0. | 5.827 | 0. | 0. | 5.998 |
| SM | -552078016. | 38299.309 | -1107737728. | -291582048. | 25524.291 | -738244096. | -295672928. | 26269.715 |
| AV | -126045. | 8.744 | -252908. | -66571. | 5.827 | -168549. | -67505. | 5.998 |

| MMDDHH | AHU-3 | AHU-4 | AHU-4 | AHU-4 | AHU-5 | AHU-5 | AHU-5 | AHU-6 |
|-----------------------|-------------------------------|-------------------------------|--------------------------|-------------------------------|-------------------------------|--------------------------|-------------------------------|-------------------------------|
| | HEATING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | HEATING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | HEATING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR |
| | ----(78) | ----(5) | ----(49) | ----(78) | ----(5) | ----(49) | ----(78) | ----(5) |
| MONTHLY SUMMARY (JAN) | | | | | | | | |
| MN | -321406. | -330594. | 5.827 | -312286. | -340247. | 5.998 | -321406. | -382186. |
| MX | -321406. | -33. | 5.827 | -312286. | -29. | 5.998 | -321406. | -10881. |
| SM | -119563040. | -62960336. | 2167.817 | -116170392. | -63814316. | 2231.126 | -119563040. | -81248432. |
| AV | -321406. | -169248. | 5.827 | -312286. | -171544. | 5.998 | -321406. | -218410. |
| MONTHLY SUMMARY (FEB) | | | | | | | | |
| MN | -321406. | -332924. | 5.827 | -312286. | -336776. | 5.998 | -321406. | -380875. |
| MX | -321406. | -24. | 5.827 | -312286. | -24. | 5.998 | -321406. | -398. |
| SM | -107992424. | -53934556. | 1958.028 | -104928096. | -54637044. | 2015.211 | -107992424. | -69446000. |
| AV | -321406. | -160520. | 5.827 | -312286. | -162610. | 5.998 | -321406. | -206685. |
| MONTHLY SUMMARY (MAR) | | | | | | | | |
| MN | -321406. | -330541. | 5.827 | -312286. | -340192. | 5.998 | -321406. | -381598. |
| MX | -321406. | -7. | 5.827 | -312286. | -7. | 5.998 | -321406. | -7. |
| SM | -119563040. | -43453192. | 2167.817 | -116170392. | -43895268. | 2231.126 | -119563040. | -58335216. |
| AV | -321406. | -116810. | 5.827 | -312286. | -117998. | 5.998 | -321406. | -156815. |
| MONTHLY SUMMARY (APR) | | | | | | | | |
| MN | -321406. | -324569. | 5.827 | -312286. | -328755. | 5.998 | -321406. | -370271. |
| MX | -321406. | 0. | 5.827 | -312286. | 0. | 5.998 | -321406. | 0. |
| SM | -115706168. | -21140704. | 2097.887 | -112422960. | -21473688. | 2159.155 | -115706168. | -30901120. |
| AV | -321406. | -58724. | 5.827 | -312286. | -59649. | 5.998 | -321406. | -85836. |
| MONTHLY SUMMARY (MAY) | | | | | | | | |
| MN | 0. | 0. | 5.827 | 0. | 0. | 5.998 | 0. | 0. |
| MX | 0. | 0. | 5.827 | 0. | 0. | 5.998 | 0. | 0. |
| SM | 0. | 0. | 2167.817 | 0. | 0. | 2231.126 | 0. | 0. |
| AV | 0. | 0. | 5.827 | 0. | 0. | 5.998 | 0. | 0. |
| MONTHLY SUMMARY (JUN) | | | | | | | | |
| MN | 0. | 0. | 5.827 | 0. | 0. | 5.998 | 0. | 0. |
| MX | 0. | 0. | 5.827 | 0. | 0. | 5.998 | 0. | 0. |
| SM | 0. | 0. | 2097.887 | 0. | 0. | 2159.155 | 0. | 0. |
| AV | 0. | 0. | 5.827 | 0. | 0. | 5.998 | 0. | 0. |
| MONTHLY SUMMARY (JUL) | | | | | | | | |
| MN | 0. | 0. | 5.827 | 0. | 0. | 5.998 | 0. | 0. |
| MX | 0. | 0. | 5.827 | 0. | 0. | 5.998 | 0. | 0. |
| SM | 0. | 0. | 2167.817 | 0. | 0. | 2231.126 | 0. | 0. |
| AV | 0. | 0. | 5.827 | 0. | 0. | 5.998 | 0. | 0. |

| | AHU-3 | AHU-4 | AHU-4 | AHU-4 | AHU-5 | AHU-5 | AHU-5 | AHU-6 |
|-----------------------|-------------------------------|-------------------------------|--------------------------|-------------------------------|-------------------------------|--------------------------|-------------------------------|-------------------------------|
| | HEATING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | HEATING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | HEATING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR |
| | ----(78) | ----(5) | ----(49) | ----(78) | ----(5) | ----(49) | ----(78) | ----(5) |
| MONTHLY SUMMARY (AUG) | | | | | | | | |
| MN | 0. | 0. | 5.827 | 0. | 0. | 5.998 | 0. | 0. |
| MX | 0. | 0. | 5.827 | 0. | 0. | 5.998 | 0. | 0. |
| SM | 0. | 0. | 2167.817 | 0. | 0. | 2231.126 | 0. | 0. |
| AV | 0. | 0. | 5.827 | 0. | 0. | 5.998 | 0. | 0. |
| MONTHLY SUMMARY (SEP) | | | | | | | | |
| MN | 0. | 0. | 5.827 | 0. | 0. | 5.998 | 0. | 0. |
| MX | 0. | 0. | 5.827 | 0. | 0. | 5.998 | 0. | 0. |
| SM | 0. | 0. | 2097.887 | 0. | 0. | 2159.155 | 0. | 0. |
| AV | 0. | 0. | 5.827 | 0. | 0. | 5.998 | 0. | 0. |
| MONTHLY SUMMARY (OCT) | | | | | | | | |
| MN | -321406. | -333037. | 5.827 | -312286. | -338105. | 5.998 | -321406. | -381357. |
| MX | 0. | 0. | 5.827 | 0. | 0. | 5.998 | 0. | 0. |
| SM | -61709956. | -13615919. | 2167.817 | -59958912. | -13777088. | 2231.126 | -61709956. | -18772948. |
| AV | -165887. | -36602. | 5.827 | -161180. | -37035. | 5.998 | -165887. | -50465. |
| MONTHLY SUMMARY (NOV) | | | | | | | | |
| MN | -321406. | -333080. | 5.827 | -312286. | -340222. | 5.998 | -321406. | -382159. |
| MX | -321406. | 0. | 5.827 | -312286. | 0. | 5.998 | -321406. | 0. |
| SM | -115706168. | -36465880. | 2097.887 | -112422960. | -36984832. | 2159.155 | -115706168. | -49088744. |
| AV | -321406. | -101294. | 5.827 | -312286. | -102736. | 5.998 | -321406. | -136358. |
| MONTHLY SUMMARY (DEC) | | | | | | | | |
| MN | -321406. | -330567. | 5.827 | -312286. | -340211. | 5.998 | -321406. | -382155. |
| MX | -321406. | -33. | 5.827 | -312286. | -33. | 5.998 | -321406. | -27756. |
| SM | -119563040. | -60011468. | 2167.817 | -116170392. | -61090688. | 2231.126 | -119563040. | -77739880. |
| AV | -321406. | -161321. | 5.827 | -312286. | -164222. | 5.998 | -321406. | -208978. |
| YEARLY SUMMARY | | | | | | | | |
| MN | -321406. | -333080. | 5.827 | -312286. | -340247. | 5.998 | -321406. | -382186. |
| MX | 0. | 0. | 5.827 | 0. | 0. | 5.998 | 0. | 0. |
| SM | -759803776. | -291582048. | 25524.291 | -738244096. | -295672928. | 26269.715 | -759803776. | -385532320. |
| AV | -173471. | -66571. | 5.827 | -168549. | -67505. | 5.998 | -173471. | -88021. |

| MDDHH | AHU-6 | AHU-6 | AHU-7 | AHU-7 | AHU-7 | AHU-8 | AHU-8 | AHU-8 |
|-----------------------|--------------------------|-------------------------------|-------------------------------|--------------------------|-------------------------------|-------------------------------|--------------------------|-------------------------------|
| | SUPPLY ELECTRIC KW | HEATING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | HEATING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | HEATING CAPACITY BTU/HR |
| | ----(49) | ----(78) | ----(5) | ----(49) | ----(78) | ----(5) | ----(49) | ----(78) |
| MONTHLY SUMMARY (JAN) | | | | | | | | |
| MN | 6.737 | -361032. | -390837. | 6.890 | -369208. | -156487. | 2.758 | -147809. |
| MX | 6.737 | -361032. | -7638. | 6.890 | -369208. | -60823. | 2.758 | -147809. |
| SM | 2506.197 | -134303680. | -81919944. | 2562.957 | -137345424. | -47315776. | 1026.056 | -54984952. |
| AV | 6.737 | -361031. | -220215. | 6.890 | -369208. | -127193. | 2.758 | -147809. |
| MONTHLY SUMMARY (FEB) | | | | | | | | |
| MN | 6.737 | -361032. | -385263. | 6.890 | -369208. | -166678. | 2.758 | -147809. |
| MX | 6.737 | -361032. | -635. | 6.890 | -369208. | -72583. | 2.758 | -147809. |
| SM | 2263.662 | -121306544. | -69959312. | 2314.929 | -124053936. | -44521812. | 926.760 | -49663828. |
| AV | 6.737 | -361031. | -208212. | 6.890 | -369208. | -132505. | 2.758 | -147809. |
| MONTHLY SUMMARY (MAR) | | | | | | | | |
| MN | 6.737 | -361032. | -390235. | 6.890 | -369208. | -164495. | 2.758 | -147809. |
| MX | 6.737 | -361032. | -7. | 6.890 | -369208. | -42439. | 2.758 | -147809. |
| SM | 2506.197 | -134303680. | -58595960. | 2562.957 | -137345424. | -47988392. | 1026.056 | -54984952. |
| AV | 6.737 | -361031. | -157516. | 6.890 | -369208. | -129001. | 2.758 | -147809. |
| MONTHLY SUMMARY (APR) | | | | | | | | |
| MN | 6.737 | -361032. | -376615. | 6.890 | -369208. | -161125. | 2.758 | -147809. |
| MX | 6.737 | -361032. | 0. | 6.890 | -369208. | -30414. | 2.758 | -147809. |
| SM | 2425.352 | -129971296. | -31243602. | 2480.281 | -132914928. | -40114676. | 992.958 | -53211244. |
| AV | 6.737 | -361031. | -86788. | 6.890 | -369208. | -111430. | 2.758 | -147809. |
| MONTHLY SUMMARY (MAY) | | | | | | | | |
| MN | 6.737 | 0. | 0. | 6.890 | 0. | 0. | 2.758 | 0. |
| MX | 6.737 | 0. | 0. | 6.890 | 0. | 0. | 2.758 | 0. |
| SM | 2506.197 | 0. | 0. | 2562.957 | 0. | 0. | 1026.056 | 0. |
| AV | 6.737 | 0. | 0. | 6.890 | 0. | 0. | 2.758 | 0. |
| MONTHLY SUMMARY (JUN) | | | | | | | | |
| MN | 6.737 | 0. | 0. | 6.890 | 0. | 0. | 2.758 | 0. |
| MX | 6.737 | 0. | 0. | 6.890 | 0. | 0. | 2.758 | 0. |
| SM | 2425.352 | 0. | 0. | 2480.281 | 0. | 0. | 992.958 | 0. |
| AV | 6.737 | 0. | 0. | 6.890 | 0. | 0. | 2.758 | 0. |
| MONTHLY SUMMARY (JUL) | | | | | | | | |
| MN | 6.737 | 0. | 0. | 6.890 | 0. | 0. | 2.758 | 0. |
| MX | 6.737 | 0. | 0. | 6.890 | 0. | 0. | 2.758 | 0. |
| SM | 2506.197 | 0. | 0. | 2562.957 | 0. | 0. | 1026.056 | 0. |
| AV | 6.737 | 0. | 0. | 6.890 | 0. | 0. | 2.758 | 0. |

| | AHU-6 | AHU-6 | AHU-7 | AHU-7 | AHU-7 | AHU-8 | AHU-8 | AHU-8 |
|-----------------------|--------------------------|-------------------------------|-------------------------------|--------------------------|-------------------------------|-------------------------------|--------------------------|-------------------------------|
| | SUPPLY ELECTRIC KW | HEATING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | HEATING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR | SUPPLY ELBCTRIC KW | HEATING CAPACITY BTU/HR |
| | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| | (49) | (78) | (5) | (49) | (78) | (5) | (49) | (78) |
| MONTHLY SUMMARY (AUG) | | | | | | | | |
| MN | 6.737 | 0. | 0. | 6.890 | 0. | 0. | 2.758 | 0. |
| MX | 6.737 | 0. | 0. | 6.890 | 0. | 0. | 2.758 | 0. |
| SM | 2506.197 | 0. | 0. | 2562.957 | 0. | 0. | 1026.056 | 0. |
| AV | 6.737 | 0. | 0. | 6.890 | 0. | 0. | 2.758 | 0. |
| MONTHLY SUMMARY (SEP) | | | | | | | | |
| MN | 6.737 | 0. | 0. | 6.890 | 0. | 0. | 2.758 | 0. |
| MX | 6.737 | 0. | 0. | 6.890 | 0. | 0. | 2.758 | 0. |
| SM | 2425.352 | 0. | 0. | 2480.281 | 0. | 0. | 992.958 | 0. |
| AV | 6.737 | 0. | 0. | 6.890 | 0. | 0. | 2.758 | 0. |
| MONTHLY SUMMARY (OCT) | | | | | | | | |
| MN | 6.737 | -361032. | -386617. | 6.890 | -369208. | -157820. | 2.758 | -147809. |
| MX | 6.737 | 0. | 0. | 6.890 | 0. | 0. | 2.758 | 0. |
| SM | 2506.197 | -69318032. | -18889846. | 2562.957 | -70887984. | -8589678. | 1026.056 | -28379330. |
| AV | 6.737 | -186339. | -50779. | 6.890 | -190559. | -23091. | 2.758 | -76289. |
| MONTHLY SUMMARY (NOV) | | | | | | | | |
| MN | 6.737 | -361032. | -390809. | 6.890 | -369208. | -158712. | 2.758 | -147809. |
| MX | 6.737 | -361032. | 0. | 6.890 | -369208. | -10. | 2.758 | -147809. |
| SM | 2425.352 | -129971296. | -49496228. | 2480.281 | -132914928. | -26522834. | 992.958 | -53211244. |
| AV | 6.737 | -361031. | -137490. | 6.890 | -369208. | -73675. | 2.758 | -147809. |
| MONTHLY SUMMARY (DEC) | | | | | | | | |
| MN | 6.737 | -361032. | -389861. | 6.890 | -369208. | -160454. | 2.758 | -147809. |
| MX | 6.737 | -361032. | -28244. | 6.890 | -369208. | -33. | 2.758 | -147809. |
| SM | 2506.197 | -134303680. | -78623088. | 2562.957 | -137345424. | -42176600. | 1026.056 | -54984952. |
| AV | 6.737 | -361031. | -211352. | 6.890 | -369208. | -113378. | 2.758 | -147809. |
| YEARLY SUMMARY | | | | | | | | |
| MN | 6.737 | -361032. | -390837. | 6.890 | -369208. | -166678. | 2.758 | -147809. |
| MX | 6.737 | 0. | 0. | 6.890 | 0. | 0. | 2.758 | 0. |
| SM | 29508.449 | -853478208. | -388728000. | 30176.754 | -872808064. | -257229760. | 12080.984 | -349420512. |
| AV | 6.737 | -194858. | -88751. | 6.890 | -199271. | -58728. | 2.758 | -79776. |

| MMDDHH | AHU-9 | AHU-9 | AHU-9 |
|-----------------------|-------------------------------|--------------------------|-------------------------------|
| | TOT HTG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | HEATING CAPACITY BTU/HR |
| | ---- (5) | ---- (49) | ---- (78) |
| MONTHLY SUMMARY (JAN) | | | |
| MN | -183846. | 3.239 | -173597. |
| MX | -61575. | 3.239 | -173597. |
| SM | -54135788. | 1205.071 | -64578088. |
| AV | -145526. | 3.239 | -173597. |
| MONTHLY SUMMARY (FEB) | | | |
| MN | -195752. | 3.239 | -173597. |
| MX | -72539. | 3.239 | -173597. |
| SM | -51037600. | 1088.451 | -58328596. |
| AV | -151898. | 3.239 | -173597. |
| MONTHLY SUMMARY (MAR) | | | |
| MN | -193194. | 3.239 | -173597. |
| MX | -37414. | 3.239 | -173597. |
| SM | -54983952. | 1205.071 | -64578088. |
| AV | -147806. | 3.239 | -173597. |
| MONTHLY SUMMARY (APR) | | | |
| MN | -189223. | 3.239 | -173597. |
| MX | -22765. | 3.239 | -173597. |
| SM | -45359340. | 1166.197 | -62494924. |
| AV | -125998. | 3.239 | -173597. |
| MONTHLY SUMMARY (MAY) | | | |
| MN | 0. | 3.239 | 0. |
| MX | 0. | 3.239 | 0. |
| SM | 0. | 1205.071 | 0. |
| AV | 0. | 3.239 | 0. |
| MONTHLY SUMMARY (JUN) | | | |
| MN | 0. | 3.239 | 0. |
| MX | 0. | 3.239 | 0. |
| SM | 0. | 1166.197 | 0. |
| AV | 0. | 3.239 | 0. |
| MONTHLY SUMMARY (JUL) | | | |
| MN | 0. | 3.239 | 0. |
| MX | 0. | 3.239 | 0. |
| SM | 0. | 1205.071 | 0. |
| AV | 0. | 3.239 | 0. |

| | AHU-9 | AHU-9 | AHU-9 |
|-----------------------|-------------------------------|--------------------------|-------------------------------|
| | TOT HTG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | HEATING CAPACITY BTU/HR |
| | ---- (5) | ---- (49) | ---- (78) |
| MONTHLY SUMMARY (AUG) | | | |
| MN | 0. | 3.239 | 0. |
| MX | 0. | 3.239 | 0. |
| SM | 0. | 1205.071 | 0. |
| AV | 0. | 3.239 | 0. |
| MONTHLY SUMMARY (SEP) | | | |
| MN | 0. | 3.239 | 0. |
| MX | 0. | 3.239 | 0. |
| SM | 0. | 1166.197 | 0. |
| AV | 0. | 3.239 | 0. |
| MONTHLY SUMMARY (OCT) | | | |
| MN | -185342. | 3.239 | -173597. |
| MX | 0. | 3.239 | 0. |
| SM | -10280489. | 1205.071 | -33330626. |
| AV | -27636. | 3.239 | -89598. |
| MONTHLY SUMMARY (NOV) | | | |
| MN | -186390. | 3.239 | -173597. |
| MX | -10. | 3.239 | -173597. |
| SM | -30510266. | 1166.197 | -62494924. |
| AV | -84751. | 3.239 | -173597. |
| MONTHLY SUMMARY (DEC) | | | |
| MN | -183873. | 3.239 | -173597. |
| MX | -33. | 3.239 | -173597. |
| SM | -48585016. | 1205.071 | -64578088. |
| AV | -130605. | 3.239 | -173597. |
| YEARLY SUMMARY | | | |
| MN | -195752. | 3.239 | -173597. |
| MX | 0. | 3.239 | 0. |
| SM | -294892480. | 14188.732 | -410383328. |
| AV | -67327. | 3.239 | -93695. |

| MONTH | S I T E E N E R G Y | | | | | | | | | | | | | 14 |
|-------|-----------------------|--------------------------|-------------------------|------------------|---------------------------|--------------------------|--------------------------|--------------------------|--------------------------|------------------------|------------------------|-------------------------|---------------------------|----|
| | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | SOURCE | |
| | TOTAL HEAT LOAD | TOTAL COOLING LOAD | TOTAL ELECTR LOAD | RCVRED ENERGY | WASTED RCVRL ENERGY | FUEL INPUT COOLING | ELEC INPUT COOLING | FUEL INPUT HEATING | ELEC INPUT HEATING | FUEL INPUT ELECT | TOTAL FUEL INPUT | TOTAL SITE ENERGY | TOTAL SOURCE ENERGY | |
| JAN | 722.4 | 0.0 | 351.0 102.8E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 1029.7 | 44.9 13.1E | 0.0 | 1029.7 | 1380.7 | 2083.8 | |
| FEB | 635.5 | 0.0 | 318.5 93.3E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 914.2 | 41.2 12.1E | 0.0 | 914.2 | 1232.7 | 1870.6 | |
| MAR | 536.2 | 0.0 | 359.5 105.3E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 787.2 | 39.9 11.7E | 0.0 | 787.2 | 1146.6 | 1866.6 | |
| APR | 317.0 | 0.0 | 325.4 95.3E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 479.5 | 29.9 8.7E | 0.0 | 479.5 | 805.0 | 1456.8 | |
| MAY | 0.0 | 161.4 | 475.1 139.1E | 0.0 | 0.0 | 0.0 | 128.6 37.7E | 0.0 | 0.0 0.0E | 0.0 | 0.0 | 475.1 | 1426.6 | |
| JUN | 0.0 | 401.2 | 535.6 156.9E | 0.0 | 0.0 | 0.0 | 210.6 61.7E | 0.0 | 0.0 0.0E | 0.0 | 0.0 | 535.6 | 1608.4 | |
| JUL | 0.0 | 585.8 | 567.7 166.3E | 0.0 | 0.0 | 0.0 | 270.8 79.3E | 0.0 | 0.0 0.0E | 0.0 | 0.0 | 567.7 | 1704.8 | |
| AUG | 0.0 | 554.9 | 589.9 172.8E | 0.0 | 0.0 | 0.0 | 258.2 75.6E | 0.0 | 0.0 0.0E | 0.0 | 0.0 | 589.9 | 1771.6 | |
| SEP | 0.0 | 306.3 | 507.7 148.7E | 0.0 | 0.0 | 0.0 | 174.5 51.1E | 0.0 | 0.0 0.0E | 0.0 | 0.0 | 507.7 | 1524.7 | |
| OCT | 153.7 | 185.9 | 470.2 137.7E | 0.0 | 0.0 | 0.0 | 133.7 39.2E | 234.4 | 15.3 4.5E | 0.0 | 234.4 | 704.7 | 1646.6 | |
| NOV | 400.6 | 0.0 | 317.4 92.9E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 581.9 | 30.8 9.0E | 0.0 | 581.9 | 899.3 | 1535.0 | |
| DEC | 655.1 | 0.0 | 346.0 101.3E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 938.5 | 42.5 12.4E | 0.0 | 938.5 | 1284.4 | 1977.4 | |
| ----- | 3420.5 | 2195.4 | 5164.0 1512.4E | 0.0 | 0.0 | 0.0 | 1176.5 344.6E | 4965.4 | 244.5 71.6E | 0.0 | 4965.4 | 10129.5 | 20473.0 | |

NOTE-- ALL ENTRIES ARE IN MBTU EXCEPT
 ENTRIES FOLLOWED BY E ARE IN MWH (THOUSANDS OF KWH)

ENTTECH ENGINEERING
 READING, PA 19603
 REPORT- PS-B MONTHLY PEAK AND TOTAL ENERGY USE

BZDOS - ELITE SOFTWARE DEVELOPMENT INC
 FT. GEORGE G. MEADE

DOE-2.1D 12/11/1995 13:51:29 PDL RUN 1
 EMCS STUDY WEATHER FILE- BALTIMORE, MD

| MO | UTILITY- | ELECTRICITY | NATURAL-GAS |
|-----|--------------|-------------|-------------|
| | TOTAL (MBTU) | 351.027 | 1029.682 |
| JAN | PEAK (KBTU) | 1224.857 | 3832.216 |
| | DY/HR | 31/17 | 10/ 7 |
| | TOTAL (MBTU) | 318.479 | 914.243 |
| FEB | PEAK (KBTU) | 1224.857 | 3813.680 |
| | DY/HR | 28/13 | 2/ 7 |
| | TOTAL (MBTU) | 359.460 | 787.157 |
| MAR | PEAK (KBTU) | 1224.857 | 3781.433 |
| | DY/HR | 31/17 | 15/ 7 |
| | TOTAL (MBTU) | 325.438 | 479.516 |
| APR | PEAK (KBTU) | 1224.857 | 3710.000 |
| | DY/HR | 29/ 9 | 4/ 7 |
| | TOTAL (MBTU) | 475.063 | 0.000 |
| MAY | PEAK (KBTU) | 1751.475 | 0.000 |
| | DY/HR | 26/16 | 31/ 1 |
| | TOTAL (MBTU) | 535.593 | 0.000 |
| JUN | PEAK (KBTU) | 2074.361 | 0.000 |
| | DY/HR | 29/16 | 30/ 1 |
| | TOTAL (MBTU) | 567.706 | 0.000 |
| JUL | PEAK (KBTU) | 2383.299 | 0.000 |
| | DY/HR | 25/14 | 31/ 1 |
| | TOTAL (MBTU) | 589.944 | 0.000 |
| AUG | PEAK (KBTU) | 2355.303 | 0.000 |
| | DY/HR | 18/17 | 31/ 1 |
| | TOTAL (MBTU) | 507.737 | 0.000 |
| SEP | PEAK (KBTU) | 2047.204 | 0.000 |
| | DY/HR | 2/14 | 30/ 1 |
| | TOTAL (MBTU) | 470.248 | 234.416 |
| OCT | PEAK (KBTU) | 1783.103 | 3869.026 |
| | DY/HR | 18/15 | 17/ 7 |
| | TOTAL (MBTU) | 317.366 | 581.939 |
| NOV | PEAK (KBTU) | 1224.857 | 3864.251 |
| | DY/HR | 30/17 | 21/ 7 |
| | TOTAL (MBTU) | 345.968 | 938.474 |
| DEC | PEAK (KBTU) | 1224.857 | 3794.358 |
| | DY/HR | 30/17 | 6/ 7 |
| | ONE YEAR | 5164.029 | 4965.426 |
| | USE/PEAK | 2383.299 | 3869.026 |

ENTECH ENGINEERING
READING, PA 19603
REPORT- PS-D PLANT LOADS SATISFIED

BZDOE - ELITE SOFTWARE DEVELOPMENT INC
FT. GEORGE G. MEADE

DOB-2.1D 12/11/1995 13:51:29 PDL RUN 1
EMCS STUDY WEATHER FILE- BALTIMORE, MD

| HEATING LOADS | MBTU SUPPLIED | PCT OF TOTAL LOAD |
|---------------------|---------------|-------------------|
| ----- | ----- | ----- |
| HW-BOILER | 3420.5 | 100.0 |
| | ----- | ----- |
| LOAD SATISFIED | 3420.5 | 100.0 |
| TOTAL LOAD ON PLANT | 3420.5 | |

| COOLING LOADS | MBTU SUPPLIED | PCT OF TOTAL LOAD |
|---------------------|---------------|-------------------|
| ----- | ----- | ----- |
| HERM-RBC-CHLR | 2195.5 | 100.0 |
| | ----- | ----- |
| LOAD SATISFIED | 2195.5 | 100.0 |
| TOTAL LOAD ON PLANT | 2195.5 | |

| ELECTRICAL LOADS | MBTU SUPPLIED | PCT OF TOTAL LOAD |
|---------------------|---------------|-------------------|
| ----- | ----- | ----- |
| ELECTRICITY | 5164.0 | 100.0 |
| | ----- | ----- |
| LOAD SATISFIED | 5164.0 | 100.0 |
| TOTAL LOAD ON PLANT | 5164.1 | |

ENTECH ENGINEERING
READING, PA 19603
REPORT- PS-D PLANT LOADS SATISFIED

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
FT. GEORGE G. MEADE

DOE-2.1D 12/11/1995 13:51:29 PDL RUN 1
EMCS STUDY

WEATHER FILE- BALTIMORE, MD

----- (CONTINUED) -----

SUMMARY OF LOADS MET

| TYPE OF LOAD | TOTAL LOAD (MBTU) | LOAD SATISFIED (MBTU) | TOTAL OVERLOAD (MBTU) | PEAK OVERLOAD (MBTU) | HOURS OVERLOADED |
|------------------|-------------------------|-----------------------------|-----------------------------|----------------------------|---------------------|
| HEATING LOADS | 3420.5 | 3420.5 | 0.000 | 0.000 | 0 |
| COOLING LOADS | 2195.5 | 2195.5 | 0.000 | 0.000 | 0 |
| ELECTRICAL LOADS | 5164.1 | 5164.0 | 0.000 | 0.000 | 0 |

ENTECH ENGINEERING
 READING, PA 19603
 REPORT- PS-H EQUIPMENT USE STATISTICS

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
 FT. GEORGE G. MEADE

DOB-2.1D 12/11/1995 13:51:29 PDL RUN 1
 EMCS STUDY WEATHER FILE- BALTIMORE, MD

| EQUIPMENT | AVG | MAX | MON | | SIZE OPER | | SIZE OPER | | SIZE OPER | | SIZE OPER | |
|---------------|---------------|----------------|-----|----|-----------|-------|-----------|-----|-----------|-----|-----------|-----|
| | OPER RATIO | LOAD (MBTU) | DAY | HR | (MBTU) | HRS | (MBTU) | HRS | (MBTU) | HRS | (MBTU) | HRS |
| HW-BOILER | 0.190 | 2.976 | 10 | 17 | 7 | 3.800 | 4728 | | | | | |
| HERM-REC-CHLR | 0.178 | 2.804 | 8 | 18 | 17 | 2.800 | 4397 | | | | | |

ENTECH ENGINEERING
READING, PA 19603
REPORT- PS-I EQUIPMENT LIFE CYCLE COSTS

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
FT. GEORGE G. MEADE

DOE-2.1D 12/11/1995 13:51:29 PDL RUN 1
EMCS STUDY
WEATHER FILE- BALTIMORE, MD

E Q U I P M E N T T O T A L S

| | | | |
|-----------------------|-------|-------|-------|
| HW-BOILER | 95.7 | | |
| NOMINAL SIZE (MBTU) | | 3.800 | |
| NUMBER INSTALLED | | | 1 |
| FIRST COST (K\$) | 86.8 | 86.8 | |
| ANNUAL COST (K\$) | 1.1 | 1.1 | |
| CYCLICAL COST (K\$) | 7.8 | 7.8 | |
| -----TOTAL----- (K\$) | | | 95.7 |
| HERM-REC-CHLR | 107.2 | | |
| NOMINAL SIZE (MBTU) | | 2.800 | |
| NUMBER INSTALLED | | | 2 |
| FIRST COST (K\$) | 90.5 | 90.5 | |
| ANNUAL COST (K\$) | 10.9 | 10.9 | |
| CYCLICAL COST (K\$) | 5.8 | 5.8 | |
| -----TOTAL----- (K\$) | | | 107.2 |
| ----- | | | |
| EQUIPMENT TOTAL | 202.8 | | |

| ENERGY TYPE IN SITE MBTU - | ELECTRICITY | NATURAL-GAS |
|-------------------------------|-------------|-------------|
| CATEGORY OF USE | | |
| SPACE HEAT | 183.39 | 4965.32 |
| SPACE COOL | 825.33 | 0.00 |
| HVAC AUX | 1388.67 | 0.00 |
| DOM HOT WTR | 0.00 | 0.00 |
| AUX SOLAR | 0.00 | 0.00 |
| LIGHTS | 1913.29 | 0.00 |
| VERT TRANS | 0.00 | 0.00 |
| MISC EQUIP | 853.30 | 0.00 |
| TOTAL | 5163.98 | 4965.32 |

TOTAL SITE ENERGY 10129.46 MBTU 83.6 KBTU/SQFT-YR GROSS-AREA 83.6 KBTU/SQFT-YR NET-AREA
 TOTAL SOURCE ENERGY 20473.02 MBTU 168.9 KBTU/SQFT-YR GROSS-AREA 168.9 KBTU/SQFT-YR NET-AREA

PERCENT OF HOURS ANY SYSTEM ZONE OUTSIDE OF THROTTLING RANGE = 63.8
 PERCENT OF HOURS ANY PLANT LOAD NOT SATISFIED = 0.0

NOTE ELECTRICITY AND/OR FUEL USED TO GENERATE ELECTRICITY IS APPORTIONED BASED
 ON THE YEARLY DEMAND. ALL OTHER ENERGY TYPES ARE APPORTIONED HOURLY.

| MMDDHH | HERM-REC -CHLR ELECTRIC USE BTU/HR | HERM-REC -CHLR LOAD BTU/HR | HERM-REC -CHLR CONDENS FAN ELEC BTU/HR | HW-BOILE R LOAD BTU/HR | HW-BOILE R FUEL USE BTU/HR | HW-BOILE R ELECTRIC USE BTU/HR |
|-----------------------|------------------------------------------------|-------------------------------------|----------------------------------------------------|---------------------------------|----------------------------------------|--------------------------------------------|
| | ---- (3) | ---- (1) | ---- (18) | ---- (1) | ---- (4) | ---- (3) |
| MONTHLY SUMMARY (JAN) | | | | | | |
| MN | 0. | 0. | 0. | 26374. | 43099. | 2321. |
| MX | 0. | 0. | 0. | 2942214. | 3832216. | 83600. |
| SM | 0. | 0. | 0. | 722364992. | 1029684736. | 35241144. |
| AV | 0. | 0. | 0. | 970921. | 1383985. | 47367. |
| MONTHLY SUMMARY (FEB) | | | | | | |
| MN | 0. | 0. | 0. | 26374. | 43099. | 2321. |
| MX | 0. | 0. | 0. | 2925252. | 3813680. | 83600. |
| SM | 0. | 0. | 0. | 635529216. | 914245760. | 32522426. |
| AV | 0. | 0. | 0. | 945728. | 1360485. | 48396. |
| MONTHLY SUMMARY (MAR) | | | | | | |
| MN | 0. | 0. | 0. | 26374. | 43099. | 2321. |
| MX | 0. | 0. | 0. | 2895776. | 3781433. | 83600. |
| SM | 0. | 0. | 0. | 536214080. | 787158464. | 30304120. |
| AV | 0. | 0. | 0. | 720718. | 1058009. | 40731. |
| MONTHLY SUMMARY (APR) | | | | | | |
| MN | 0. | 0. | 0. | 26374. | 43099. | 2321. |
| MX | 0. | 0. | 0. | 2830627. | 3710000. | 83600. |
| SM | 0. | 0. | 0. | 116962816. | 479514816. | 20575432. |
| AV | 0. | 0. | 0. | 440226. | 665993. | 28577. |
| MONTHLY SUMMARY (MAY) | | | | | | |
| MN | 55876. | 127958. | 14331. | 0. | 0. | 0. |
| MX | 543182. | 1576978. | 78400. | 0. | 0. | 0. |
| SM | 69129320. | 161357264. | 15730823. | 0. | 0. | 0. |
| AV | 92916. | 216878. | 21144. | 0. | 0. | 0. |
| MONTHLY SUMMARY (JUN) | | | | | | |
| MN | 55876. | 127958. | 14331. | 0. | 0. | 0. |
| MX | 866068. | 2574319. | 78400. | 0. | 0. | 0. |
| SM | 153028704. | 401181344. | 25296698. | 0. | 0. | 0. |
| AV | 212540. | 557196. | 35134. | 0. | 0. | 0. |
| MONTHLY SUMMARY (JUL) | | | | | | |
| MN | 55876. | 127958. | 14331. | 0. | 0. | 0. |
| MX | 1175006. | 2773377. | 156800. | 0. | 0. | 0. |
| SM | 211282240. | 585778560. | 31744514. | 0. | 0. | 0. |
| AV | 283982. | 787337. | 42667. | 0. | 0. | 0. |

| | HERM-REC -CHLR ELECTRIC USE BTU/HR | HERM-REC -CHLR LOAD BTU/HR | HERM-REC -CHLR CONDENSER FAN ELEC BTU/HR | HW-BOILE R LOAD BTU/HR | HW-BOILE R FUEL USE BTU/HR | HW-BOILE R ELECTRIC USE BTU/HR |
|-----------------------|------------------------------------------------|-------------------------------------|------------------------------------------------------|---------------------------------|----------------------------------------|--------------------------------------------|
| | ----(3) | ----(1) | ----(18) | ----(1) | ----(4) | ----(3) |
| MONTHLY SUMMARY (AUG) | | | | | | |
| MN | 55876. | 127958. | 14331. | 0. | 0. | 0. |
| MX | 1147010. | 2803607. | 156800. | 0. | 0. | 0. |
| SM | 198758160. | 554925952. | 29856962. | 0. | 0. | 0. |
| AV | 267148. | 745868. | 40130. | 0. | 0. | 0. |
| MONTHLY SUMMARY (SEP) | | | | | | |
| MN | 55876. | 127958. | 14331. | 0. | 0. | 0. |
| MX | 838911. | 2554309. | 78400. | 0. | 0. | 0. |
| SM | 116966288. | 306268160. | 20905994. | 0. | 0. | 0. |
| AV | 162453. | 425372. | 29036. | 0. | 0. | 0. |
| MONTHLY SUMMARY (OCT) | | | | | | |
| MN | 0. | 0. | 0. | 0. | 0. | 0. |
| MX | 542373. | 1566562. | 78400. | 2975940. | 3869026. | 83600. |
| SM | 76176904. | 185888992. | 17521260. | 153704544. | 234415136. | 10350354. |
| AV | 102388. | 249851. | 23550. | 206592. | 315074. | 13912. |
| MONTHLY SUMMARY (NOV) | | | | | | |
| MN | 0. | 0. | 0. | 26374. | 43099. | 2321. |
| MX | 0. | 0. | 0. | 2971562. | 3864251. | 83600. |
| SM | 0. | 0. | 0. | 400629056. | 581938624. | 21548870. |
| AV | 0. | 0. | 0. | 556429. | 808248. | 29929. |
| MONTHLY SUMMARY (DEC) | | | | | | |
| MN | 0. | 0. | 0. | 26374. | 43099. | 2321. |
| MX | 0. | 0. | 0. | 2907585. | 3794358. | 83600. |
| SM | 0. | 0. | 0. | 655065792. | 938475840. | 32845696. |
| AV | 0. | 0. | 0. | 880465. | 1261392. | 44147. |
| YEARLY SUMMARY | | | | | | |
| MN | 0. | 0. | 0. | 0. | 0. | 0. |
| MX | 1175006. | 2803607. | 156800. | 2975940. | 3869026. | 83600. |
| SM | 825341568. | 2195400192. | 141056240. | 3420470272. | 4965433344. | 183388032. |
| AV | 94217. | 250616. | 16102. | 390465. | 566830. | 20935. |

BR-27113 1550
 W/NIGHT RETAKE 1987
 FILE: FTHD4550

| MMDDHH | AHU-1 | AHU-1 | AHU-1 | AHU-2 | AHU-2 | AHU-2 | AHU-3 | AHU-3 |
|-----------------------|-------------------------------|--------------------------|-------------------------------|-------------------------------|--------------------------|-------------------------------|-------------------------------|--------------------------|
| | TOT HTG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | HEATING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | HEATING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR | SUPPLY ELECTRIC KW |
| | ---- (5) | ---- (49) | ---- (78) | ---- (5) | ---- (49) | ---- (78) | ---- (5) | ---- (49) |
| MONTHLY SUMMARY (JAN) | | | | | | | | |
| MN | -535264. | 8.744 | -468586. | -335290. | 5.827 | -312286. | -345092. | 5.998 |
| MX | -33. | 8.744 | -468586. | -33. | 5.827 | -312286. | -29. | 5.998 |
| SM | -112741712. | 3252.818 | -174314064. | -62952272. | 2167.817 | -116170392. | -63810100. | 2231.126 |
| AV | -303069. | 8.744 | -468586. | -169227. | 5.827 | -312286. | -171533. | 5.998 |
| MONTHLY SUMMARY (FEB) | | | | | | | | |
| MN | -537499. | 8.744 | -468586. | -335604. | 5.827 | -312286. | -345423. | 5.998 |
| MX | -24. | 8.744 | -468586. | -24. | 5.827 | -312286. | -24. | 5.998 |
| SM | -97279520. | 2938.029 | -157444944. | -53921704. | 1958.028 | -104928096. | -54620408. | 2015.211 |
| AV | -289522. | 8.744 | -468586. | -160481. | 5.827 | -312286. | -162561. | 5.998 |
| MONTHLY SUMMARY (MAR) | | | | | | | | |
| MN | -534926. | 8.744 | -468586. | -335438. | 5.827 | -312286. | -345315. | 5.998 |
| MX | -8. | 8.744 | -468586. | -7. | 5.827 | -312286. | -7. | 5.998 |
| SM | -86608048. | 3252.818 | -174314064. | -43414260. | 2167.817 | -116170392. | -43849988. | 2231.126 |
| AV | -232817. | 8.744 | -468586. | -116705. | 5.827 | -312286. | -117876. | 5.998 |
| MONTHLY SUMMARY (APR) | | | | | | | | |
| MN | -517942. | 8.744 | -468586. | -324569. | 5.827 | -312286. | -328755. | 5.998 |
| MX | -2. | 8.744 | -468586. | 0. | 5.827 | -312286. | 0. | 5.998 |
| SM | -50651176. | 3147.888 | -168691024. | -21140704. | 2097.887 | -112422960. | -21473688. | 2159.155 |
| AV | -140698. | 8.744 | -468586. | -58724. | 5.827 | -312286. | -59649. | 5.998 |
| MONTHLY SUMMARY (MAY) | | | | | | | | |
| MN | 0. | 8.744 | 0. | 0. | 5.827 | 0. | 0. | 5.998 |
| MX | 0. | 8.744 | 0. | 0. | 5.827 | 0. | 0. | 5.998 |
| SM | 0. | 3252.818 | 0. | 0. | 2167.817 | 0. | 0. | 2231.126 |
| AV | 0. | 8.744 | 0. | 0. | 5.827 | 0. | 0. | 5.998 |
| MONTHLY SUMMARY (JUN) | | | | | | | | |
| MN | 0. | 8.744 | 0. | 0. | 5.827 | 0. | 0. | 5.998 |
| MX | 0. | 8.744 | 0. | 0. | 5.827 | 0. | 0. | 5.998 |
| SM | 0. | 3147.888 | 0. | 0. | 2097.887 | 0. | 0. | 2159.155 |
| AV | 0. | 8.744 | 0. | 0. | 5.827 | 0. | 0. | 5.998 |
| MONTHLY SUMMARY (JUL) | | | | | | | | |
| MN | 0. | 8.744 | 0. | 0. | 5.827 | 0. | 0. | 5.998 |
| MX | 0. | 8.744 | 0. | 0. | 5.827 | 0. | 0. | 5.998 |
| SM | 0. | 3252.818 | 0. | 0. | 2167.817 | 0. | 0. | 2231.126 |
| AV | 0. | 8.744 | 0. | 0. | 5.827 | 0. | 0. | 5.998 |

| | AHU-1 | AHU-1 | AHU-1 | AHU-2 | AHU-2 | AHU-2 | AHU-3 | AHU-3 |
|-----------------------|-------------------------------|--------------------------|-------------------------------|-------------------------------|--------------------------|-------------------------------|-------------------------------|--------------------------|
| | TOT HTG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | HEATING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | HEATING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR | SUPPLY ELECTRIC KW |
| | ---- (5) | ----(49) | ----(78) | ---- (5) | ----(49) | ----(78) | ---- (5) | ----(49) |
| MONTHLY SUMMARY (AUG) | | | | | | | | |
| MN | 0. | 8.744 | 0. | 0. | 5.827 | 0. | 0. | 5.998 |
| MX | 0. | 8.744 | 0. | 0. | 5.827 | 0. | 0. | 5.998 |
| SM | 0. | 3252.818 | 0. | 0. | 2167.817 | 0. | 0. | 2231.126 |
| AV | 0. | 8.744 | 0. | 0. | 5.827 | 0. | 0. | 5.998 |
| MONTHLY SUMMARY (SEP) | | | | | | | | |
| MN | 0. | 8.744 | 0. | 0. | 5.827 | 0. | 0. | 5.998 |
| MX | 0. | 8.744 | 0. | 0. | 5.827 | 0. | 0. | 5.998 |
| SM | 0. | 3147.888 | 0. | 0. | 2097.887 | 0. | 0. | 2159.155 |
| AV | 0. | 8.744 | 0. | 0. | 5.827 | 0. | 0. | 5.998 |
| MONTHLY SUMMARY (OCT) | | | | | | | | |
| MN | -503610. | 8.744 | -468586. | -328334. | 5.827 | -312286. | -329299. | 5.998 |
| MX | 0. | 8.744 | 0. | 0. | 5.827 | 0. | 0. | 5.998 |
| SM | -27708748. | 3252.818 | -89968528. | -12849059. | 2167.817 | -59958912. | -13005426. | 2231.126 |
| AV | -74486. | 8.744 | -241851. | -34540. | 5.827 | -161180. | -34961. | 5.998 |
| MONTHLY SUMMARY (NOV) | | | | | | | | |
| MN | -537177. | 8.744 | -468586. | -358010. | 5.827 | -312286. | -368464. | 5.998 |
| MX | 0. | 8.744 | -468586. | 0. | 5.827 | -312286. | 0. | 5.998 |
| SM | -70191120. | 3147.888 | -168691024. | -36481672. | 2097.887 | -112422960. | -37002572. | 2159.155 |
| AV | -194975. | 8.744 | -468586. | -101338. | 5.827 | -312286. | -102785. | 5.998 |
| MONTHLY SUMMARY (DEC) | | | | | | | | |
| MN | -535160. | 8.744 | -468586. | -335241. | 5.827 | -312286. | -345468. | 5.998 |
| MX | -33. | 8.744 | -468586. | -33. | 5.827 | -312286. | -33. | 5.998 |
| SM | -106972032. | 3252.818 | -174314064. | -59950304. | 2167.817 | -116170392. | -61025792. | 2231.126 |
| AV | -287559. | 8.744 | -468586. | -161157. | 5.827 | -312286. | -164048. | 5.998 |
| YEARLY SUMMARY | | | | | | | | |
| MN | -537499. | 8.744 | -468586. | -358010. | 5.827 | -312286. | -368464. | 5.998 |
| MX | 0. | 8.744 | 0. | 0. | 5.827 | 0. | 0. | 5.998 |
| SM | -552152320. | 38299.309 | -1107737728. | -290709984. | 25524.291 | -738244096. | -294787968. | 26269.715 |
| AV | -126062. | 8.744 | -252908. | -66372. | 5.827 | -168549. | -67303. | 5.998 |

| MMDDHH | AHU-3 | AHU-4 | AHU-4 | AHU-4 | AHU-5 | AHU-5 | AHU-5 | AHU-6 |
|-----------------------|-------------------------------|-------------------------------|--------------------------|-------------------------------|-------------------------------|--------------------------|-------------------------------|-------------------------------|
| | HEATING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | HEATING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | HEATING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR |
| | ---- (78) | ---- (5) | ----(49) | ----(78) | ---- (5) | ----(49) | ----(78) | ----(5) |
| MONTHLY SUMMARY (JAN) | | | | | | | | |
| MN | -321406. | -335290. | 5.827 | -312286. | -345092. | 5.998 | -321406. | -386159. |
| MX | -321406. | -33. | 5.827 | -312286. | -29. | 5.998 | -321406. | -10881. |
| SM | -119563040. | -62952272. | 2167.817 | -116170392. | -63810100. | 2231.126 | -119563040. | -81333248. |
| AV | -321406. | -169227. | 5.827 | -312286. | -171533. | 5.998 | -321406. | -218638. |
| MONTHLY SUMMARY (FEB) | | | | | | | | |
| MN | -321406. | -335604. | 5.827 | -312286. | -345423. | 5.998 | -321406. | -387661. |
| MX | -321406. | -24. | 5.827 | -312286. | -24. | 5.998 | -321406. | -398. |
| SM | -107992424. | -53921704. | 1958.028 | -104928096. | -54620408. | 2015.211 | -107992424. | -69497976. |
| AV | -321406. | -160481. | 5.827 | -312286. | -162561. | 5.998 | -321406. | -206839. |
| MONTHLY SUMMARY (MAR) | | | | | | | | |
| MN | -321406. | -335438. | 5.827 | -312286. | -345315. | 5.998 | -321406. | -381598. |
| MX | -321406. | -7. | 5.827 | -312286. | -7. | 5.998 | -321406. | -7. |
| SM | -119563040. | -43414260. | 2167.817 | -116170392. | -43849988. | 2231.126 | -119563040. | -58306768. |
| AV | -321406. | -116705. | 5.827 | -312286. | -117876. | 5.998 | -321406. | -156739. |
| MONTHLY SUMMARY (APR) | | | | | | | | |
| MN | -321406. | -324569. | 5.827 | -312286. | -328755. | 5.998 | -321406. | -370271. |
| MX | -321406. | 0. | 5.827 | -312286. | 0. | 5.998 | -321406. | 0. |
| SM | -115706168. | -21140704. | 2097.887 | -112422960. | -21473688. | 2159.155 | -115706168. | -30901120. |
| AV | -321406. | -58724. | 5.827 | -312286. | -59649. | 5.998 | -321406. | -85836. |
| MONTHLY SUMMARY (MAY) | | | | | | | | |
| MN | 0. | 0. | 5.827 | 0. | 0. | 5.998 | 0. | 0. |
| MX | 0. | 0. | 5.827 | 0. | 0. | 5.998 | 0. | 0. |
| SM | 0. | 0. | 2167.817 | 0. | 0. | 2231.126 | 0. | 0. |
| AV | 0. | 0. | 5.827 | 0. | 0. | 5.998 | 0. | 0. |
| MONTHLY SUMMARY (JUN) | | | | | | | | |
| MN | 0. | 0. | 5.827 | 0. | 0. | 5.998 | 0. | 0. |
| MX | 0. | 0. | 5.827 | 0. | 0. | 5.998 | 0. | 0. |
| SM | 0. | 0. | 2097.887 | 0. | 0. | 2159.155 | 0. | 0. |
| AV | 0. | 0. | 5.827 | 0. | 0. | 5.998 | 0. | 0. |
| MONTHLY SUMMARY (JUL) | | | | | | | | |
| MN | 0. | 0. | 5.827 | 0. | 0. | 5.998 | 0. | 0. |
| MX | 0. | 0. | 5.827 | 0. | 0. | 5.998 | 0. | 0. |
| SM | 0. | 0. | 2167.817 | 0. | 0. | 2231.126 | 0. | 0. |
| AV | 0. | 0. | 5.827 | 0. | 0. | 5.998 | 0. | 0. |

| | AHU-3 | AHU-4 | AHU-4 | AHU-4 | AHU-5 | AHU-5 | AHU-5 | AHU-6 |
|-----------------------|-------------------------------|-------------------------------|--------------------------|-------------------------------|-------------------------------|--------------------------|-------------------------------|-------------------------------|
| | HEATING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | HEATING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | HEATING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR |
| | ---- (78) | ---- (5) | ---- (49) | ---- (78) | ---- (5) | ---- (49) | ---- (78) | ---- (5) |
| MONTHLY SUMMARY (AUG) | | | | | | | | |
| MN | 0. | 0. | 5.827 | 0. | 0. | 5.998 | 0. | 0. |
| MX | 0. | 0. | 5.827 | 0. | 0. | 5.998 | 0. | 0. |
| SM | 0. | 0. | 2167.817 | 0. | 0. | 2231.126 | 0. | 0. |
| AV | 0. | 0. | 5.827 | 0. | 0. | 5.998 | 0. | 0. |
| MONTHLY SUMMARY (SEP) | | | | | | | | |
| MN | 0. | 0. | 5.827 | 0. | 0. | 5.998 | 0. | 0. |
| MX | 0. | 0. | 5.827 | 0. | 0. | 5.998 | 0. | 0. |
| SM | 0. | 0. | 2097.887 | 0. | 0. | 2159.155 | 0. | 0. |
| AV | 0. | 0. | 5.827 | 0. | 0. | 5.998 | 0. | 0. |
| MONTHLY SUMMARY (OCT) | | | | | | | | |
| MN | -321406. | -328334. | 5.827 | -312286. | -329299. | 5.998 | -321406. | -377360. |
| MX | 0. | 0. | 5.827 | 0. | 0. | 5.998 | 0. | 0. |
| SM | -61709956. | -12849059. | 2167.817 | -59958912. | -13005426. | 2231.126 | -61709956. | -18102346. |
| AV | -165887. | -34540. | 5.827 | -161180. | -34961. | 5.998 | -165887. | -48662. |
| MONTHLY SUMMARY (NOV) | | | | | | | | |
| MN | -321406. | -358010. | 5.827 | -312286. | -368464. | 5.998 | -321406. | -413887. |
| MX | -321406. | 0. | 5.827 | -312286. | 0. | 5.998 | -321406. | 0. |
| SM | -115706168. | -36481672. | 2097.887 | -112422960. | -37002572. | 2159.155 | -115706168. | -49118012. |
| AV | -321406. | -101338. | 5.827 | -312286. | -102785. | 5.998 | -321406. | -136439. |
| MONTHLY SUMMARY (DEC) | | | | | | | | |
| MN | -321406. | -335241. | 5.827 | -312286. | -345468. | 5.998 | -321406. | -382155. |
| MX | -321406. | -33. | 5.827 | -312286. | -33. | 5.998 | -321406. | -27755. |
| SM | -119563040. | -59950304. | 2167.817 | -116170392. | -61025792. | 2231.126 | -119563040. | -77724544. |
| AV | -321406. | -161157. | 5.827 | -312286. | -164048. | 5.998 | -321406. | -208937. |
| YEARLY SUMMARY | | | | | | | | |
| MN | -321406. | -358010. | 5.827 | -312286. | -368464. | 5.998 | -321406. | -413887. |
| MX | 0. | 0. | 5.827 | 0. | 0. | 5.998 | 0. | 0. |
| SM | -759803776. | -290709984. | 25524.291 | -738244096. | -294787968. | 26269.715 | -759803776. | -384984032. |
| AV | -173471. | -66372. | 5.827 | -168549. | -67303. | 5.998 | -173471. | -87896. |

| MDDHH | AHU-6 | AHU-6 | AHU-7 | AHU-7 | AHU-7 | AHU-8 | AHU-8 | AHU-8 |
|-----------------------|--------------------------|-------------------------------|-------------------------------|--------------------------|-------------------------------|-------------------------------|--------------------------|-------------------------------|
| | SUPPLY ELECTRIC KW | HEATING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | HEATING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | HEATING CAPACITY BTU/HR |
| | ----(49) | ----(78) | ----(5) | ----(49) | ----(78) | ----(5) | ----(49) | ----(78) |
| MONTHLY SUMMARY (JAN) | | | | | | | | |
| MN | 6.737 | -361032. | -395193. | 6.890 | -369208. | -202527. | 2.758 | -179073. |
| MX | 6.737 | -361032. | -7636. | 6.890 | -369208. | -51361. | 2.758 | -179073. |
| SM | 2506.197 | -134303680. | -82004208. | 2562.957 | -137345424. | -55167116. | 1026.056 | -66615256. |
| AV | 6.737 | -361031. | -220441. | 6.890 | -369208. | -148299. | 2.758 | -179073. |
| MONTHLY SUMMARY (FEB) | | | | | | | | |
| MN | 6.737 | -361032. | -395894. | 6.890 | -369208. | -202503. | 2.758 | -179073. |
| MX | 6.737 | -361032. | -635. | 6.890 | -369208. | -72501. | 2.758 | -179073. |
| SM | 2263.662 | -121306544. | -70007592. | 2314.929 | -124053936. | -52434888. | 926.760 | -60168616. |
| AV | 6.737 | -361031. | -208356. | 6.890 | -369208. | -156056. | 2.758 | -179073. |
| MONTHLY SUMMARY (MAR) | | | | | | | | |
| MN | 6.737 | -361032. | -390235. | 6.890 | -369208. | -203116. | 2.758 | -179073. |
| MX | 6.737 | -361032. | -7. | 6.890 | -369208. | -33183. | 2.758 | -179073. |
| SM | 2506.197 | -134303680. | -58565252. | 2562.957 | -137345424. | -56696816. | 1026.056 | -66615256. |
| AV | 6.737 | -361031. | -157433. | 6.890 | -369208. | -152411. | 2.758 | -179073. |
| MONTHLY SUMMARY (APR) | | | | | | | | |
| MN | 6.737 | -361032. | -376615. | 6.890 | -369208. | -201245. | 2.758 | -179073. |
| MX | 6.737 | -361032. | 0. | 6.890 | -369208. | -19027. | 2.758 | -179073. |
| SM | 2425.352 | -129971296. | -31243602. | 2480.281 | -132914928. | -46331384. | 992.958 | -64466376. |
| AV | 6.737 | -361031. | -86788. | 6.890 | -369208. | -128698. | 2.758 | -179073. |
| MONTHLY SUMMARY (MAY) | | | | | | | | |
| MN | 6.737 | 0. | 0. | 6.890 | 0. | 0. | 2.758 | 0. |
| MX | 6.737 | 0. | 0. | 6.890 | 0. | 0. | 2.758 | 0. |
| SM | 2506.197 | 0. | 0. | 2562.957 | 0. | 0. | 1026.056 | 0. |
| AV | 6.737 | 0. | 0. | 6.890 | 0. | 0. | 2.758 | 0. |
| MONTHLY SUMMARY (JUN) | | | | | | | | |
| MN | 6.737 | 0. | 0. | 6.890 | 0. | 0. | 2.758 | 0. |
| MX | 6.737 | 0. | 0. | 6.890 | 0. | 0. | 2.758 | 0. |
| SM | 2425.352 | 0. | 0. | 2480.281 | 0. | 0. | 992.958 | 0. |
| AV | 6.737 | 0. | 0. | 6.890 | 0. | 0. | 2.758 | 0. |
| MONTHLY SUMMARY (JUL) | | | | | | | | |
| MN | 6.737 | 0. | 0. | 6.890 | 0. | 0. | 2.758 | 0. |
| MX | 6.737 | 0. | 0. | 6.890 | 0. | 0. | 2.758 | 0. |
| SM | 2506.197 | 0. | 0. | 2562.957 | 0. | 0. | 1026.056 | 0. |
| AV | 6.737 | 0. | 0. | 6.890 | 0. | 0. | 2.758 | 0. |

| | AHU-6 | AHU-6 | AHU-7 | AHU-7 | AHU-7 | AHU-8 | AHU-8 | AHU-8 |
|-----------------------|--------------------------|-------------------------------|-------------------------------|--------------------------|-------------------------------|-------------------------------|--------------------------|-------------------------------|
| | SUPPLY ELECTRIC KW | HEATING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | HEATING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | HEATING CAPACITY BTU/HR |
| | ---- (49) | ---- (78) | ---- (5) | ---- (49) | ---- (78) | ---- (5) | ---- (49) | ---- (78) |
| MONTHLY SUMMARY (AUG) | | | | | | | | |
| MN | 6.737 | 0. | 0. | 6.890 | 0. | 0. | 2.758 | 0. |
| MX | 6.737 | 0. | 0. | 6.890 | 0. | 0. | 2.758 | 0. |
| SM | 2506.197 | 0. | 0. | 2562.957 | 0. | 0. | 1026.056 | 0. |
| AV | 6.737 | 0. | 0. | 6.890 | 0. | 0. | 2.758 | 0. |
| MONTHLY SUMMARY (SEP) | | | | | | | | |
| MN | 6.737 | 0. | 0. | 6.890 | 0. | 0. | 2.758 | 0. |
| MX | 6.737 | 0. | 0. | 6.890 | 0. | 0. | 2.758 | 0. |
| SM | 2425.352 | 0. | 0. | 2480.281 | 0. | 0. | 992.958 | 0. |
| AV | 6.737 | 0. | 0. | 6.890 | 0. | 0. | 2.758 | 0. |
| MONTHLY SUMMARY (OCT) | | | | | | | | |
| MN | 6.737 | -361032. | -378840. | 6.890 | -369208. | -189252. | 2.758 | -179073. |
| MX | 6.737 | 0. | 0. | 6.890 | 0. | 0. | 2.758 | 0. |
| SM | 2506.197 | -69318032. | -18213134. | 2562.957 | -70887984. | -8968751. | 1026.056 | -34382056. |
| AV | 6.737 | -186339. | -48960. | 6.890 | -190559. | -24110. | 2.758 | -92425. |
| MONTHLY SUMMARY (NOV) | | | | | | | | |
| MN | 6.737 | -361032. | -423260. | 6.890 | -369208. | -190327. | 2.758 | -179073. |
| MX | 6.737 | -361032. | 0. | 6.890 | -369208. | -16. | 2.758 | -179073. |
| SM | 2425.352 | -129971296. | -49527032. | 2480.281 | -132914928. | -28505616. | 992.958 | -64466376. |
| AV | 6.737 | -361031. | -137575. | 6.890 | -369208. | -79182. | 2.758 | -179073. |
| MONTHLY SUMMARY (DEC) | | | | | | | | |
| MN | 6.737 | -361032. | -389849. | 6.890 | -369208. | -200480. | 2.758 | -179073. |
| MX | 6.737 | -361032. | -28244. | 6.890 | -369208. | -36. | 2.758 | -179073. |
| SM | 2506.197 | -134303680. | -78604688. | 2562.957 | -137345424. | -47733592. | 1026.056 | -66615256. |
| AV | 6.737 | -361031. | -211303. | 6.890 | -369208. | -128316. | 2.758 | -179073. |
| YEARLY SUMMARY | | | | | | | | |
| MN | 6.737 | -361032. | -423260. | 6.890 | -369208. | -203116. | 2.758 | -179073. |
| MX | 6.737 | 0. | 0. | 6.890 | 0. | 0. | 2.758 | 0. |
| SM | 29508.449 | -853478208. | -388165504. | 30176.754 | -872808064. | -295838176. | 12080.984 | -423329184. |
| AV | 6.737 | -194858. | -88622. | 6.890 | -199271. | -67543. | 2.758 | -96651. |

| MMDDHH | AHU-9 | AHU-9 | AHU-9 |
|-----------------------|-------------------------------|--------------------------|-------------------------------|
| | TOT HTG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | HEATING CAPACITY BTU/HR |
| | ---- (5) | ----(49) | ----(78) |
| MONTHLY SUMMARY (JAN) | | | |
| MN | -237854. | 3.239 | -210316. |
| MX | -48961. | 3.239 | -210316. |
| SM | -62827648. | 1205.071 | -78237464. |
| AV | -168892. | 3.239 | -210316. |
| MONTHLY SUMMARY (FEB) | | | |
| MN | -238569. | 3.239 | -210316. |
| MX | -71862. | 3.239 | -210316. |
| SM | -59771052. | 1088.451 | -70666088. |
| AV | -177890. | 3.239 | -210316. |
| MONTHLY SUMMARY (MAR) | | | |
| MN | -238546. | 3.239 | -210316. |
| MX | -24460. | 3.239 | -210316. |
| SM | -64518688. | 1205.071 | -78237464. |
| AV | -173437. | 3.239 | -210316. |
| MONTHLY SUMMARY (APR) | | | |
| MN | -237779. | 3.239 | -210316. |
| MX | -40. | 3.239 | -210316. |
| SM | -51247936. | 1166.197 | -75713672. |
| AV | -142355. | 3.239 | -210316. |
| MONTHLY SUMMARY (MAY) | | | |
| MN | 0. | 3.239 | 0. |
| MX | 0. | 3.239 | 0. |
| SM | 0. | 1205.071 | 0. |
| AV | 0. | 3.239 | 0. |
| MONTHLY SUMMARY (JUN) | | | |
| MN | 0. | 3.239 | 0. |
| MX | 0. | 3.239 | 0. |
| SM | 0. | 1166.197 | 0. |
| AV | 0. | 3.239 | 0. |
| MONTHLY SUMMARY (JUL) | | | |
| MN | 0. | 3.239 | 0. |
| MX | 0. | 3.239 | 0. |
| SM | 0. | 1205.071 | 0. |
| AV | 0. | 3.239 | 0. |

| | AHU-9 | AHU-9 | AHU-9 |
|-----------------------|-------------------------------|--------------------------|-------------------------------|
| | TOT HTG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | HEATING CAPACITY BTU/HR |
| | ----(5) | ----(49) | ----(78) |
| MONTHLY SUMMARY (AUG) | | | |
| MN | 0. | 3.239 | 0. |
| MX | 0. | 3.239 | 0. |
| SM | 0. | 1205.071 | 0. |
| AV | 0. | 3.239 | 0. |
| MONTHLY SUMMARY (SEP) | | | |
| MN | 0. | 3.239 | 0. |
| MX | 0. | 3.239 | 0. |
| SM | 0. | 1166.197 | 0. |
| AV | 0. | 3.239 | 0. |
| MONTHLY SUMMARY (OCT) | | | |
| MN | -222258. | 3.239 | -210316. |
| MX | 0. | 3.239 | 0. |
| SM | -10594954. | 1205.071 | -40380628. |
| AV | -28481. | 3.239 | -108550. |
| MONTHLY SUMMARY (NOV) | | | |
| MN | -223521. | 3.239 | -210316. |
| MX | -16. | 3.239 | -210316. |
| SM | -32387676. | 1166.197 | -75713672. |
| AV | -89966. | 3.239 | -210316. |
| MONTHLY SUMMARY (DEC) | | | |
| MN | -234829. | 3.239 | -210316. |
| MX | -39. | 3.239 | -210316. |
| SM | -53715720. | 1205.071 | -78237464. |
| AV | -144397. | 3.239 | -210316. |
| YEARLY SUMMARY | | | |
| MN | -238569. | 3.239 | -210316. |
| MX | 0. | 3.239 | 0. |
| SM | -335063680. | 14188.732 | -497186464. |
| AV | -76499. | 3.239 | -113513. |

| MONTH | S I T E E N E R G Y | | | | | | | | | | | S O U R C E | |
|-------|-----------------------|--------------------------|-------------------------|------------------|-----------------------------|--------------------------|--------------------------|--------------------------|--------------------------|------------------------|------------------------|-------------------------|---------------------------|
| | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| | TOTAL HEAT LOAD | TOTAL COOLING LOAD | TOTAL ELECTR LOAD | RCVRED ENERGY | WASTED RCVRABL ENERGY | FUEL INPUT COOLING | ELEC INPUT COOLING | FUEL INPUT HEATING | ELEC INPUT HEATING | FUEL INPUT ELECT | TOTAL FUEL INPUT | TOTAL SITE ENERGY | TOTAL SOURCE ENERGY |
| JAN | 707.1 | 0.0 | 348.6 102.1E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 1000.9 | 42.9 12.6E | 0.0 | 1000.9 | 1349.5 | 2047.7 |
| FEB | 618.1 | 0.0 | 315.4 92.4E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 882.4 | 39.2 11.5E | 0.0 | 882.4 | 1197.8 | 1829.6 |
| MAR | 536.6 | 0.0 | 357.4 104.7E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 779.6 | 38.5 11.3E | 0.0 | 779.6 | 1137.0 | 1852.8 |
| APR | 323.4 | 0.0 | 325.0 95.2E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 485.5 | 29.6 8.7E | 0.0 | 485.5 | 810.5 | 1461.4 |
| MAY | 0.0 | 186.8 | 476.5 139.6E | 0.0 | 0.0 | 0.0 | 137.5 40.3E | 0.0 | 0.0 0.0E | 0.0 | 0.0 | 476.5 | 1430.9 |
| JUN | 0.0 | 421.1 | 532.0 155.8E | 0.0 | 0.0 | 0.0 | 216.9 63.5E | 0.0 | 0.0 0.0E | 0.0 | 0.0 | 532.0 | 1597.7 |
| JUL | 0.0 | 587.5 | 567.9 166.3E | 0.0 | 0.0 | 0.0 | 271.0 79.4E | 0.0 | 0.0 0.0E | 0.0 | 0.0 | 567.9 | 1705.4 |
| AUG | 0.0 | 571.3 | 589.1 172.5E | 0.0 | 0.0 | 0.0 | 262.5 76.9E | 0.0 | 0.0 0.0E | 0.0 | 0.0 | 589.1 | 1769.1 |
| SEP | 0.0 | 346.4 | 505.0 147.9E | 0.0 | 0.0 | 0.0 | 188.5 55.2E | 0.0 | 0.0 0.0E | 0.0 | 0.0 | 505.0 | 1516.5 |
| OCT | 146.0 | 220.6 | 475.9 139.4E | 0.0 | 0.0 | 0.0 | 147.1 43.1E | 222.0 | 14.7 4.3E | 0.0 | 222.0 | 697.9 | 1651.2 |
| NOV | 399.2 | 0.0 | 316.9 92.8E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 577.6 | 30.4 8.9E | 0.0 | 577.6 | 894.4 | 1529.1 |
| DEC | 644.3 | 0.0 | 343.9 100.7E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 915.9 | 40.7 11.9E | 0.0 | 915.9 | 1259.8 | 1948.7 |
| | 3374.7 | 2333.7 | 5153.6 1509.4E | 0.0 | 0.0 | 0.0 | 1223.4 358.3E | 4863.9 | 235.9 69.1E | 0.0 | 4863.9 | 10017.5 | 20340.2 |

NOTE-- ALL ENTRIES ARE IN MBTU EXCEPT
 ENTRIES FOLLOWED BY E ARE IN MWH (THOUSANDS OF KWH)

ENTECH ENGINEERING
 READING, PA 19603
 REPORT- PS-B MONTHLY PEAK AND TOTAL ENERGY USE

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
 FT. GEORGE G. MEADE

DOB-2.1D 12/11/1995 9:17:44 PDL RUN 1
 EMCS STUDY WEATHER FILE- BALTIMORE, MD

| MO | UTILITY- | ELECTRICITY | NATURAL-GAS |
|-----|--------------|-------------|-------------|
| | TOTAL (MBTU) | 348.582 | 1000.895 |
| JAN | PEAK (KBTU) | 1224.857 | 4046.859 |
| | DY/HR | 31/17 | 24/ 7 |
| | TOTAL (MBTU) | 315.409 | 882.404 |
| FEB | PEAK (KBTU) | 1224.857 | 4054.244 |
| | DY/HR | 28/14 | 22/ 7 |
| | TOTAL (MBTU) | 357.354 | 779.637 |
| MAR | PEAK (KBTU) | 1224.857 | 4030.147 |
| | DY/HR | 31/17 | 7/ 7 |
| | TOTAL (MBTU) | 324.968 | 485.541 |
| APR | PEAK (KBTU) | 1224.857 | 3932.164 |
| | DY/HR | 29/ 9 | 4/ 7 |
| | TOTAL (MBTU) | 476.498 | 0.000 |
| MAY | PEAK (KBTU) | 1786.818 | 0.000 |
| | DY/HR | 6/17 | 31/ 1 |
| | TOTAL (MBTU) | 532.033 | 0.000 |
| JUN | PEAK (KBTU) | 2070.927 | 0.000 |
| | DY/HR | 29/16 | 30/ 1 |
| | TOTAL (MBTU) | 567.905 | 0.000 |
| JUL | PEAK (KBTU) | 2380.704 | 0.000 |
| | DY/HR | 25/14 | 31/ 1 |
| | TOTAL (MBTU) | 589.122 | 0.000 |
| AUG | PEAK (KBTU) | 2356.959 | 0.000 |
| | DY/HR | 18/17 | 31/ 1 |
| | TOTAL (MBTU) | 504.998 | 0.000 |
| SEP | PEAK (KBTU) | 2047.190 | 0.000 |
| | DY/HR | 2/14 | 30/ 1 |
| | TOTAL (MBTU) | 475.942 | 221.967 |
| OCT | PEAK (KBTU) | 1787.435 | 3905.944 |
| | DY/HR | 18/15 | 24/ 7 |
| | TOTAL (MBTU) | 316.869 | 577.580 |
| NOV | PEAK (KBTU) | 1224.857 | 4178.415 |
| | DY/HR | 30/17 | 28/ 7 |
| | TOTAL (MBTU) | 343.941 | 915.874 |
| DEC | PEAK (KBTU) | 1224.857 | 4027.186 |
| | DY/HR | 30/17 | 19/ 7 |
| | ONE YEAR | 5153.622 | 4863.899 |
| | USE/PEAK | 2380.704 | 4178.415 |

ENTECH ENGINEERING
READING, PA 19603
REPORT- PS-D PLANT LOADS SATISFIED

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
FT. GEORGE G. MEADE

DOE-2.1D 12/11/1995 9:17:44 PDL RUN 1
EMCS STUDY WEATHER FILE- BALTIMORE, MD

| HEATING LOADS | MBTU SUPPLIED | PCT OF TOTAL LOAD |
|---------------------|---------------|-------------------|
| ----- | ----- | ----- |
| HW-BOILER | 3374.7 | 100.0 |
| | ----- | ----- |
| LOAD SATISFIED | 3374.7 | 100.0 |
| TOTAL LOAD ON PLANT | 3374.7 | |

| COOLING LOADS | MBTU SUPPLIED | PCT OF TOTAL LOAD |
|---------------------|---------------|-------------------|
| ----- | ----- | ----- |
| HERM-REC-CHLR | 2333.8 | 100.0 |
| | ----- | ----- |
| LOAD SATISFIED | 2333.8 | 100.0 |
| TOTAL LOAD ON PLANT | 2333.8 | |

| ELECTRICAL LOADS | MBTU SUPPLIED | PCT OF TOTAL LOAD |
|---------------------|---------------|-------------------|
| ----- | ----- | ----- |
| ELECTRICITY | 5153.6 | 100.0 |
| | ----- | ----- |
| LOAD SATISFIED | 5153.6 | 100.0 |
| TOTAL LOAD ON PLANT | 5153.6 | |

ENTECH ENGINEERING
READING, PA 19603
REPORT- PS-D PLANT LOADS SATISFIED

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
FT. GEORGE G. MEADE

DOE-2.LD 12/11/1995
EMCS STUDY

9:17:44 PDL RUN 1

WEATHER FILE- BALTIMORE, MD

(CONTINUED)

SUMMARY OF LOADS MET

| TYPE OF LOAD | TOTAL LOAD (MBTU) | LOAD SATISFIED (MBTU) | TOTAL OVERLOAD (MBTU) | PEAK OVERLOAD (MBTU) | HOURS OVERLOADED |
|------------------|-------------------------|-----------------------------|-----------------------------|----------------------------|---------------------|
| HEATING LOADS | 3374.7 | 3374.7 | 0.000 | 0.000 | 0 |
| COOLING LOADS | 2333.8 | 2333.8 | 0.000 | 0.000 | 0 |
| ELECTRICAL LOADS | 5153.6 | 5153.6 | 0.000 | 0.000 | 0 |

ENTECH ENGINEERING
 READING, PA 19603
 REPORT- PS-H EQUIPMENT USE STATISTICS

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
 FT. GEORGE G. MEADE

DOB-2.1D 12/11/1995 9:17:44 PDL RUN 1
 EMCS STUDY WEATHER FILE- BALTIMORE, MD

| EQUIPMENT | AVG | MAX | MON | | SIZE OPER | | SIZE OPER | | SIZE OPER | | SIZE OPER | |
|---------------|-------|--------|-------|----|-----------|------|-----------|-----|-----------|-----|-----------|-----|
| | OPER | LOAD | DAY | HR | (MBTU) | HRS | (MBTU) | HRS | (MBTU) | HRS | (MBTU) | HRS |
| | RATIO | (MBTU) | | | | | | | | | | |
| HW-BOILER | 0.188 | 3.262 | 11 28 | 7 | 3.800 | 4728 | | | | | | |
| HERM-REC-CHLR | 0.190 | 2.810 | 8 18 | 17 | 2.800 | 4396 | | | | | | |

ENTECH ENGINEERING
READING, PA 19603
REPORT- PS-I EQUIPMENT LIFE CYCLE COSTS

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
FT. GEORGE G. MEADE

DOB-2.1D 12/11/1995 9:17:44 PDL RUN 1
EMCS STUDY
WEATHER FILE- BALTIMORE, MD

EQUIPMENT TOTALS

| | | | |
|-----------------------|-------|-------|-------|
| HW-BOILER | 95.7 | | |
| NOMINAL SIZE (MBTU) | | 3.800 | |
| NUMBER INSTALLED | | | 1 |
| FIRST COST (K\$) | 86.8 | | 86.8 |
| ANNUAL COST (K\$) | 1.1 | | 1.1 |
| CYCLICAL COST (K\$) | 7.8 | | 7.8 |
| -----TOTAL----- (K\$) | | | 95.7 |
| HERM-REC-CHLR | 107.2 | | |
| NOMINAL SIZE (MBTU) | | 2.800 | |
| NUMBER INSTALLED | | | 2 |
| FIRST COST (K\$) | 90.5 | | 90.5 |
| ANNUAL COST (K\$) | 10.9 | | 10.9 |
| CYCLICAL COST (K\$) | 5.8 | | 5.8 |
| -----TOTAL----- (K\$) | | | 107.2 |
| EQUIPMENT TOTAL | 202.8 | | |

| ENERGY TYPE IN SITE MBTU - | ELECTRICITY | NATURAL-GAS |
|-------------------------------|-------------|-------------|
| CATEGORY OF USE | | |
| SPACE HEAT | 174.79 | 4863.80 |
| SPACE COOL | 872.24 | 0.00 |
| HVAC AUX | 1339.96 | 0.00 |
| DOM HOT WTR | 0.00 | 0.00 |
| AUX SOLAR | 0.00 | 0.00 |
| LIGHTS | 1913.30 | 0.00 |
| VERT TRANS | 0.00 | 0.00 |
| MISC EQUIP | 853.30 | 0.00 |
| | ----- | ----- |
| TOTAL | 5153.59 | 4863.80 |

TOTAL SITE ENERGY 10017.52 MBTU 82.7 KBTU/SQFT-YR GROSS-AREA 82.7 KBTU/SQFT-YR NET-AREA
 TOTAL SOURCE ENERGY 20340.24 MBTU 167.8 KBTU/SQFT-YR GROSS-AREA 167.8 KBTU/SQFT-YR NET-AREA

PERCENT OF HOURS ANY SYSTEM ZONE OUTSIDE OF THROTTLING RANGE = 57.1
 PERCENT OF HOURS ANY PLANT LOAD NOT SATISFIED = 0.0

NOTE ELECTRICITY AND/OR FUEL USED TO GENERATE ELECTRICITY IS APPORTIONED BASED
 ON THE YEARLY DEMAND. ALL OTHER ENERGY TYPES ARE APPORTIONED HOURLY.

| MMDDHH | HERM-REC -CHLR ELECTRIC USE BTU/HR | HERM-REC -CHLR LOAD BTU/HR | HERM-REC -CHLR CONDENSER FAN ELEC BTU/HR | HW-BOILE R LOAD BTU/HR | HW-BOILE R FUEL USE BTU/HR | HW-BOILE R ELECTRIC USE BTU/HR |
|-----------------------|------------------------------------------------|-------------------------------------|------------------------------------------------------|---------------------------------|----------------------------------------|--------------------------------------------|
| | ---- (3) | ---- (1) | ----(18) | ---- (1) | ---- (4) | ---- (3) |
| MONTHLY SUMMARY (JAN) | | | | | | |
| MN | 0. | 0. | 0. | 26374. | 43099. | 2321. |
| MX | 0. | 0. | 0. | 3139644. | 4046859. | 83600. |
| SM | 0. | 0. | 0. | 707061056. | 1000897728. | 33310870. |
| AV | 0. | 0. | 0. | 950351. | 1345293. | 44773. |
| MONTHLY SUMMARY (FEB) | | | | | | |
| MN | 0. | 0. | 0. | 26374. | 43099. | 2321. |
| MX | 0. | 0. | 0. | 3146471. | 4054244. | 83600. |
| SM | 0. | 0. | 0. | 618127360. | 882406848. | 30478252. |
| AV | 0. | 0. | 0. | 919832. | 1313105. | 45355. |
| MONTHLY SUMMARY (MAR) | | | | | | |
| MN | 0. | 0. | 0. | 26374. | 43099. | 2321. |
| MX | 0. | 0. | 0. | 3124205. | 4030147. | 83600. |
| SM | 0. | 0. | 0. | 536580768. | 779638720. | 28861052. |
| AV | 0. | 0. | 0. | 721211. | 1047902. | 38792. |
| MONTHLY SUMMARY (APR) | | | | | | |
| MN | 0. | 0. | 0. | 26374. | 43099. | 2321. |
| MX | 0. | 0. | 0. | 3033914. | 3932164. | 83600. |
| SM | 0. | 0. | 0. | 323352128. | 485540256. | 20318444. |
| AV | 0. | 0. | 0. | 449100. | 674361. | 28220. |
| MONTHLY SUMMARY (MAY) | | | | | | |
| MN | 55877. | 127958. | 14331. | 0. | 0. | 0. |
| MX | 578525. | 1649051. | 78400. | 0. | 0. | 0. |
| SM | 77972288. | 186799776. | 17196164. | 0. | 0. | 0. |
| AV | 104801. | 251075. | 23113. | 0. | 0. | 0. |
| MONTHLY SUMMARY (JUN) | | | | | | |
| MN | 55877. | 127958. | 14331. | 0. | 0. | 0. |
| MX | 862634. | 2556978. | 78400. | 0. | 0. | 0. |
| SM | 159287152. | 421134912. | 26129076. | 0. | 0. | 0. |
| AV | 221232. | 584910. | 36290. | 0. | 0. | 0. |
| MONTHLY SUMMARY (JUL) | | | | | | |
| MN | 55877. | 127958. | 14331. | 0. | 0. | 0. |
| MX | 1172411. | 2764073. | 156800. | 0. | 0. | 0. |
| SM | 211480560. | 587472896. | 31708070. | 0. | 0. | 0. |
| AV | 284248. | 789614. | 42618. | 0. | 0. | 0. |

| | HERM-REC -CHLR ELECTRIC USE BTU/HR | HERM-REC -CHLR LOAD BTU/HR | HERM-REC -CHLR CONDENSER FAN ELEC BTU/HR | HW-BOILE R LOAD BTU/HR | HW-BOILE R FUEL USE BTU/HR | HW-BOILE R ELECTRIC USE BTU/HR |
|-----------------------|------------------------------------------------|-------------------------------------|------------------------------------------------------|---------------------------------|----------------------------------------|--------------------------------------------|
| | ---- (3) | ---- (1) | ---- (18) | ---- (1) | ---- (4) | ---- (3) |
| MONTHLY SUMMARY (AUG) | | | | | | |
| MN | 55877. | 127958. | 14331. | 0. | 0. | 0. |
| MX | 1148666. | 2809784. | 156800. | 0. | 0. | 0. |
| SM | 203061488. | 571250816. | 30172288. | 0. | 0. | 0. |
| AV | 272932. | 767810. | 40554. | 0. | 0. | 0. |
| MONTHLY SUMMARY (SEP) | | | | | | |
| MN | 55877. | 127958. | 14331. | 0. | 0. | 0. |
| MX | 838896. | 2553744. | 78400. | 0. | 0. | 0. |
| SM | 130930624. | 346440800. | 23279312. | 0. | 0. | 0. |
| AV | 181848. | 481168. | 32332. | 0. | 0. | 0. |
| MONTHLY SUMMARY (OCT) | | | | | | |
| MN | 0. | 0. | 0. | 0. | 0. | 0. |
| MX | 549454. | 1583580. | 78400. | 3009819. | 3905944. | 83600. |
| SM | 89507552. | 220650336. | 20056224. | 146038768. | 221966624. | 9694508. |
| AV | 120306. | 296573. | 26957. | 196289. | 298342. | 13030. |
| MONTHLY SUMMARY (NOV) | | | | | | |
| MN | 0. | 0. | 0. | 26374. | 43099. | 2321. |
| MX | 0. | 0. | 0. | 3261586. | 4178415. | 83600. |
| SM | 0. | 0. | 0. | 399202016. | 577579200. | 21081216. |
| AV | 0. | 0. | 0. | 554447. | 802193. | 29279. |
| MONTHLY SUMMARY (DEC) | | | | | | |
| MN | 0. | 0. | 0. | 26374. | 43099. | 2321. |
| MX | 0. | 0. | 0. | 3121471. | 4027186. | 83600. |
| SM | 0. | 0. | 0. | 644309120. | 915877120. | 31048996. |
| AV | 0. | 0. | 0. | 866007. | 1231018. | 41733. |
| YEARLY SUMMARY | | | | | | |
| MN | 0. | 0. | 0. | 0. | 0. | 0. |
| MX | 1172411. | 2809784. | 156800. | 3261586. | 4178415. | 83600. |
| SM | 872239616. | 2333749504. | 148541136. | 3374671360. | 4863906816. | 174793344. |
| AV | 99571. | 266410. | 16957. | 385236. | 555241. | 19954. |

| MMDDHH | AHU-1 | AHU-1 | AHU-1 | AHU-2 | AHU-2 | AHU-2 | AHU-3 | AHU-3 |
|-----------------------|-------------------------------|--------------------------|-------------------------------|-------------------------------|--------------------------|-------------------------------|-------------------------------|--------------------------|
| | TOT HTG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | HEATING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | HEATING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR | SUPPLY ELECTRIC KW |
| | ---- (5) | ----(49) | ----(78) | ---- (5) | ----(49) | ----(78) | ---- (5) | ----(49) |
| MONTHLY SUMMARY (JAN) | | | | | | | | |
| MN | -540626. | 8.744 | -468586. | -360309. | 5.827 | -312286. | -370830. | 5.998 |
| MX | -6. | 8.744 | -468586. | -4. | 5.827 | -312286. | -4. | 5.998 |
| SM | -109532368. | 3252.818 | -174314064. | -62984500. | 2167.817 | -116170392. | -64171812. | 2231.126 |
| AV | -294442. | 8.744 | -468586. | -169313. | 5.827 | -312286. | -172505. | 5.998 |
| MONTHLY SUMMARY (FEB) | | | | | | | | |
| MN | -539012. | 8.744 | -468586. | -359233. | 5.827 | -312286. | -369723. | 5.998 |
| MX | -2012. | 8.744 | -468586. | -5. | 5.827 | -312286. | -3. | 5.998 |
| SM | -93796096. | 2938.029 | -157444944. | -53835632. | 1958.028 | -104928096. | -54835416. | 2015.211 |
| AV | -279155. | 8.744 | -468586. | -160225. | 5.827 | -312286. | -163201. | 5.998 |
| MONTHLY SUMMARY (MAR) | | | | | | | | |
| MN | -533390. | 8.744 | -468586. | -356510. | 5.827 | -312286. | -366920. | 5.998 |
| MX | 0. | 8.744 | -468586. | 0. | 5.827 | -312286. | 0. | 5.998 |
| SM | -85381808. | 3252.818 | -174314064. | -46620136. | 2167.817 | -116170392. | -47204816. | 2231.126 |
| AV | -229521. | 8.744 | -468586. | -125323. | 5.827 | -312286. | -126895. | 5.998 |
| MONTHLY SUMMARY (APR) | | | | | | | | |
| MN | -504038. | 8.744 | -468586. | -345788. | 5.827 | -312286. | -350350. | 5.998 |
| MX | 0. | 8.744 | -468586. | 0. | 5.827 | -312286. | 0. | 5.998 |
| SM | -50697764. | 3147.888 | -168691024. | -24560794. | 2097.887 | -112422960. | -247113418. | 2159.155 |
| AV | -140827. | 8.744 | -468586. | -68224. | 5.827 | -312286. | -68648. | 5.998 |
| MONTHLY SUMMARY (MAY) | | | | | | | | |
| MN | 0. | 8.744 | 0. | 0. | 5.827 | 0. | 0. | 5.998 |
| MX | 0. | 8.744 | 0. | 0. | 5.827 | 0. | 0. | 5.998 |
| SM | 0. | 3252.818 | 0. | 0. | 2167.817 | 0. | 0. | 2231.126 |
| AV | 0. | 8.744 | 0. | 0. | 5.827 | 0. | 0. | 5.998 |
| MONTHLY SUMMARY (JUN) | | | | | | | | |
| MN | 0. | 8.744 | 0. | 0. | 5.827 | 0. | 0. | 5.998 |
| MX | 0. | 8.744 | 0. | 0. | 5.827 | 0. | 0. | 5.998 |
| SM | 0. | 3147.888 | 0. | 0. | 2097.887 | 0. | 0. | 2159.155 |
| AV | 0. | 8.744 | 0. | 0. | 5.827 | 0. | 0. | 5.998 |
| MONTHLY SUMMARY (JUL) | | | | | | | | |
| MN | 0. | 8.744 | 0. | 0. | 5.827 | 0. | 0. | 5.998 |
| MX | 0. | 8.744 | 0. | 0. | 5.827 | 0. | 0. | 5.998 |
| SM | 0. | 3252.818 | 0. | 0. | 2167.817 | 0. | 0. | 2231.126 |
| AV | 0. | 8.744 | 0. | 0. | 5.827 | 0. | 0. | 5.998 |

| | AHU-1 | AHU-1 | AHU-1 | AHU-2 | AHU-2 | AHU-2 | AHU-3 | AHU-3 |
|-----------------------|-------------------------------|--------------------------|-------------------------------|-------------------------------|--------------------------|-------------------------------|-------------------------------|--------------------------|
| | TOT HTG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | HEATING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | HEATING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR | SUPPLY ELECTRIC KW |
| | ---- (5) | ---- (49) | ---- (78) | ---- (5) | ---- (49) | ---- (78) | ---- (5) | ---- (49) |
| MONTHLY SUMMARY (AUG) | | | | | | | | |
| MN | 0. | 8.744 | 0. | 0. | 5.827 | 0. | 0. | 5.998 |
| MX | 0. | 8.744 | 0. | 0. | 5.827 | 0. | 0. | 5.998 |
| SM | 0. | 3252.818 | 0. | 0. | 2167.817 | 0. | 0. | 2231.126 |
| AV | 0. | 8.744 | 0. | 0. | 5.827 | 0. | 0. | 5.998 |
| MONTHLY SUMMARY (SEP) | | | | | | | | |
| MN | 0. | 8.744 | 0. | 0. | 5.827 | 0. | 0. | 5.998 |
| MX | 0. | 8.744 | 0. | 0. | 5.827 | 0. | 0. | 5.998 |
| SM | 0. | 3147.888 | 0. | 0. | 2097.887 | 0. | 0. | 2159.155 |
| AV | 0. | 8.744 | 0. | 0. | 5.827 | 0. | 0. | 5.998 |
| MONTHLY SUMMARY (OCT) | | | | | | | | |
| MN | -502903. | 8.744 | -468586. | -329878. | 5.827 | -312286. | -331982. | 5.998 |
| MX | 0. | 8.744 | 0. | 0. | 5.827 | 0. | 0. | 5.998 |
| SM | -22606012. | 3252.818 | -89968528. | -12031191. | 2167.817 | -59958912. | -12287959. | 2231.126 |
| AV | -60769. | 8.744 | -241851. | -32342. | 5.827 | -161180. | -33032. | 5.998 |
| MONTHLY SUMMARY (NOV) | | | | | | | | |
| MN | -537177. | 8.744 | -468586. | -358010. | 5.827 | -312286. | -368464. | 5.998 |
| MX | 0. | 8.744 | -468586. | 0. | 5.827 | -312286. | 0. | 5.998 |
| SM | -68558976. | 3147.888 | -168691024. | -38204860. | 2097.887 | -112422960. | -39045600. | 2159.155 |
| AV | -190442. | 8.744 | -468586. | -106125. | 5.827 | -312286. | -108460. | 5.998 |
| MONTHLY SUMMARY (DEC) | | | | | | | | |
| MN | -535160. | 8.744 | -468586. | -356666. | 5.827 | -312286. | -367081. | 5.998 |
| MX | -49035. | 8.744 | -468586. | -4. | 5.827 | -312286. | -3. | 5.998 |
| SM | -103612936. | 3252.818 | -174314064. | -59125344. | 2167.817 | -116170392. | -60441212. | 2231.126 |
| AV | -278529. | 8.744 | -468586. | -158939. | 5.827 | -312286. | -162476. | 5.998 |
| YEARLY SUMMARY | | | | | | | | |
| MN | -540626. | 8.744 | -468586. | -360309. | 5.827 | -312286. | -370830. | 5.998 |
| MX | 0. | 8.744 | 0. | 0. | 5.827 | 0. | 0. | 5.998 |
| SM | -534185952. | 38299.309 | -1107737728. | -297362432. | 25524.291 | -738244096. | -302700224. | 26269.715 |
| AV | -121960. | 8.744 | -252908. | -67891. | 5.827 | -168549. | -69110. | 5.998 |

| MMDDHH | AHU-3 | AHU-4 | AHU-4 | AHU-4 | AHU-5 | AHU-5 | AHU-5 | AHU-6 |
|-----------------------|-------------------------------|-------------------------------|--------------------------|-------------------------------|-------------------------------|--------------------------|-------------------------------|-------------------------------|
| | HEATING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | HEATING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | HEATING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR |
| | ---- (78) | ---- (5) | ---- (49) | ---- (78) | ---- (5) | ---- (49) | ---- (78) | ---- (5) |
| MONTHLY SUMMARY (JAN) | | | | | | | | |
| MN | -321406. | -360309. | 5.827 | -312286. | -370830. | 5.998 | -321406. | -416545. |
| MX | -321406. | -4. | 5.827 | -312286. | -4. | 5.998 | -321406. | -6424. |
| SM | -119563040. | -62984500. | 2167.817 | -116170392. | -64171812. | 2231.126 | -119563040. | -79192448. |
| AV | -321406. | -169313. | 5.827 | -312286. | -172505. | 5.998 | -321406. | -212883. |
| MONTHLY SUMMARY (FEB) | | | | | | | | |
| MN | -321406. | -359233. | 5.827 | -312286. | -369723. | 5.998 | -321406. | -414738. |
| MX | -321406. | -5. | 5.827 | -312286. | -3. | 5.998 | -321406. | -1115. |
| SM | -107992424. | -53835632. | 1958.028 | -104928096. | -54835416. | 2015.211 | -107992424. | -67606088. |
| AV | -321406. | -160225. | 5.827 | -312286. | -163201. | 5.998 | -321406. | -201209. |
| MONTHLY SUMMARY (MAR) | | | | | | | | |
| MN | -321406. | -356510. | 5.827 | -312286. | -366920. | 5.998 | -321406. | -409869. |
| MX | -321406. | 0. | 5.827 | -312286. | 0. | 5.998 | -321406. | 0. |
| SM | -119563040. | -46620136. | 2167.817 | -116170392. | -47204816. | 2231.126 | -119563040. | -59381284. |
| AV | -321406. | -125323. | 5.827 | -312286. | -126895. | 5.998 | -321406. | -159627. |
| MONTHLY SUMMARY (APR) | | | | | | | | |
| MN | -321406. | -345788. | 5.827 | -312286. | -350350. | 5.998 | -321406. | -374022. |
| MX | -321406. | 0. | 5.827 | -312286. | 0. | 5.998 | -321406. | 0. |
| SM | -115706168. | -24560794. | 2097.887 | -112422960. | -24713418. | 2159.155 | -115706168. | -33978440. |
| AV | -321406. | -68224. | 5.827 | -312286. | -68648. | 5.998 | -321406. | -94385. |
| MONTHLY SUMMARY (MAY) | | | | | | | | |
| MN | 0. | 0. | 5.827 | 0. | 0. | 5.998 | 0. | 0. |
| MX | 0. | 0. | 5.827 | 0. | 0. | 5.998 | 0. | 0. |
| SM | 0. | 0. | 2167.817 | 0. | 0. | 2231.126 | 0. | 0. |
| AV | 0. | 0. | 5.827 | 0. | 0. | 5.998 | 0. | 0. |
| MONTHLY SUMMARY (JUN) | | | | | | | | |
| MN | 0. | 0. | 5.827 | 0. | 0. | 5.998 | 0. | 0. |
| MX | 0. | 0. | 5.827 | 0. | 0. | 5.998 | 0. | 0. |
| SM | 0. | 0. | 2097.887 | 0. | 0. | 2159.155 | 0. | 0. |
| AV | 0. | 0. | 5.827 | 0. | 0. | 5.998 | 0. | 0. |
| MONTHLY SUMMARY (JUL) | | | | | | | | |
| MN | 0. | 0. | 5.827 | 0. | 0. | 5.998 | 0. | 0. |
| MX | 0. | 0. | 5.827 | 0. | 0. | 5.998 | 0. | 0. |
| SM | 0. | 0. | 2167.817 | 0. | 0. | 2231.126 | 0. | 0. |
| AV | 0. | 0. | 5.827 | 0. | 0. | 5.998 | 0. | 0. |

| | AHU-3 | AHU-4 | AHU-4 | AHU-4 | AHU-5 | AHU-5 | AHU-5 | AHU-6 |
|-----------------------|-------------------------------|-------------------------------|--------------------------|-------------------------------|-------------------------------|--------------------------|-------------------------------|-------------------------------|
| | HEATING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | HEATING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | HEATING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR |
| | ---- (78) | ---- (5) | ---- (49) | ---- (78) | ---- (5) | ---- (49) | ---- (78) | ---- (5) |
| MONTHLY SUMMARY (AUG) | | | | | | | | |
| MN | 0. | 0. | 5.827 | 0. | 0. | 5.998 | 0. | 0. |
| MX | 0. | 0. | 5.827 | 0. | 0. | 5.998 | 0. | 0. |
| SM | 0. | 0. | 2167.817 | 0. | 0. | 2231.126 | 0. | 0. |
| AV | 0. | 0. | 5.827 | 0. | 0. | 5.998 | 0. | 0. |
| MONTHLY SUMMARY (SEP) | | | | | | | | |
| MN | 0. | 0. | 5.827 | 0. | 0. | 5.998 | 0. | 0. |
| MX | 0. | 0. | 5.827 | 0. | 0. | 5.998 | 0. | 0. |
| SM | 0. | 0. | 2097.887 | 0. | 0. | 2159.155 | 0. | 0. |
| AV | 0. | 0. | 5.827 | 0. | 0. | 5.998 | 0. | 0. |
| MONTHLY SUMMARY (OCT) | | | | | | | | |
| MN | -321406. | -329878. | 5.827 | -312286. | -331982. | 5.998 | -321406. | -380634. |
| MX | 0. | 0. | 5.827 | 0. | 0. | 5.998 | 0. | 0. |
| SM | -61709956. | -12031191. | 2167.817 | -59958912. | -12287959. | 2231.126 | -61709956. | -15694317. |
| AV | -165887. | -32342. | 5.827 | -161180. | -33032. | 5.998 | -165887. | -42189. |
| MONTHLY SUMMARY (NOV) | | | | | | | | |
| MN | -321406. | -358010. | 5.827 | -312286. | -368464. | 5.998 | -321406. | -413887. |
| MX | -321406. | 0. | 5.827 | -312286. | 0. | 5.998 | -321406. | 0. |
| SM | -115706168. | -38204860. | 2097.887 | -112422960. | -39045600. | 2159.155 | -115706168. | -48541308. |
| AV | -321406. | -106125. | 5.827 | -312286. | -108460. | 5.998 | -321406. | -134837. |
| MONTHLY SUMMARY (DEC) | | | | | | | | |
| MN | -321406. | -356666. | 5.827 | -312286. | -367081. | 5.998 | -321406. | -412333. |
| MX | -321406. | -4. | 5.827 | -312286. | -3. | 5.998 | -321406. | -33421. |
| SM | -119563040. | -59125344. | 2167.817 | -116170392. | -60441212. | 2231.126 | -119563040. | -75092288. |
| AV | -321406. | -158939. | 5.827 | -312286. | -162476. | 5.998 | -321406. | -201861. |
| YEARLY SUMMARY | | | | | | | | |
| MN | -321406. | -360309. | 5.827 | -312286. | -370830. | 5.998 | -321406. | -416545. |
| MX | 0. | 0. | 5.827 | 0. | 0. | 5.998 | 0. | 0. |
| SM | -759803776. | -297362432. | 25524.291 | -738244096. | -302700224. | 26269.715 | -759803776. | -379486144. |
| AV | -173471. | -67891. | 5.827 | -168549. | -69110. | 5.998 | -173471. | -86641. |

| MMDH | AHU-6 | AHU-6 | AHU-7 | AHU-7 | AHU-7 | AHU-8 | AHU-8 | AHU-8 |
|-----------------------|--------------------------|-------------------------------|-------------------------------|--------------------------|-------------------------------|-------------------------------|--------------------------|-------------------------------|
| | SUPPLY ELECTRIC KW | HEATING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | HEATING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | HEATING CAPACITY BTU/HR |
| | ----(49) | ----(78) | ----(5) | ----(49) | ----(78) | ----(5) | ----(49) | ----(78) |
| MONTHLY SUMMARY (JAN) | | | | | | | | |
| MN | 6.737 | -361032. | -425978. | 6.890 | -369208. | -201093. | 2.758 | -179073. |
| MX | 6.737 | -361032. | -5772. | 6.890 | -369208. | -30259. | 2.758 | -179073. |
| SM | 2506.197 | -134303680. | -79994200. | 2562.957 | -137345424. | -54198420. | 1026.056 | -66615256. |
| AV | 6.737 | -361031. | -215038. | 6.890 | -369208. | -145695. | 2.758 | -179073. |
| MONTHLY SUMMARY (FEB) | | | | | | | | |
| MN | 6.737 | -361032. | -420897. | 6.890 | -369208. | -201923. | 2.758 | -179073. |
| MX | 6.737 | -361032. | -1018. | 6.890 | -369208. | -64674. | 2.758 | -179073. |
| SM | 2263.662 | -121306544. | -68281824. | 2314.929 | -124053936. | -51882668. | 926.760 | -60168616. |
| AV | 6.737 | -361031. | -203220. | 6.890 | -369208. | -154413. | 2.758 | -179073. |
| MONTHLY SUMMARY (MAR) | | | | | | | | |
| MN | 6.737 | -361032. | -420480. | 6.890 | -369208. | -203116. | 2.758 | -179073. |
| MX | 6.737 | -361032. | 0. | 6.890 | -369208. | -19561. | 2.758 | -179073. |
| SM | 2506.197 | -134303680. | -60071876. | 2562.957 | -137345424. | -56002536. | 1026.056 | -66615256. |
| AV | 6.737 | -361031. | -161484. | 6.890 | -369208. | -150544. | 2.758 | -179073. |
| MONTHLY SUMMARY (APR) | | | | | | | | |
| MN | 6.737 | -361032. | -379294. | 6.890 | -369208. | -202463. | 2.758 | -179073. |
| MX | 6.737 | -361032. | 0. | 6.890 | -369208. | -10396. | 2.758 | -179073. |
| SM | 2425.352 | -129971296. | -34346116. | 2480.281 | -132914928. | -45152384. | 992.958 | -64466376. |
| AV | 6.737 | -361031. | -95406. | 6.890 | -369208. | -125423. | 2.758 | -179073. |
| MONTHLY SUMMARY (MAY) | | | | | | | | |
| MN | 6.737 | 0. | 0. | 6.890 | 0. | 0. | 2.758 | 0. |
| MX | 6.737 | 0. | 0. | 6.890 | 0. | 0. | 2.758 | 0. |
| SM | 2506.197 | 0. | 0. | 2562.957 | 0. | 0. | 1026.056 | 0. |
| AV | 6.737 | 0. | 0. | 6.890 | 0. | 0. | 2.758 | 0. |
| MONTHLY SUMMARY (JUN) | | | | | | | | |
| MN | 6.737 | 0. | 0. | 6.890 | 0. | 0. | 2.758 | 0. |
| MX | 6.737 | 0. | 0. | 6.890 | 0. | 0. | 2.758 | 0. |
| SM | 2425.352 | 0. | 0. | 2480.281 | 0. | 0. | 992.958 | 0. |
| AV | 6.737 | 0. | 0. | 6.890 | 0. | 0. | 2.758 | 0. |
| MONTHLY SUMMARY (JUL) | | | | | | | | |
| MN | 6.737 | 0. | 0. | 6.890 | 0. | 0. | 2.758 | 0. |
| MX | 6.737 | 0. | 0. | 6.890 | 0. | 0. | 2.758 | 0. |
| SM | 2506.197 | 0. | 0. | 2562.957 | 0. | 0. | 1026.056 | 0. |
| AV | 6.737 | 0. | 0. | 6.890 | 0. | 0. | 2.758 | 0. |

| | AHU-6 | AHU-6 | AHU-7 | AHU-7 | AHU-7 | AHU-8 | AHU-8 | AHU-8 |
|-----------------------|--------------------------|-------------------------------|-------------------------------|--------------------------|-------------------------------|-------------------------------|--------------------------|-------------------------------|
| | SUPPLY ELECTRIC KW | HEATING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | HEATING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | HEATING CAPACITY BTU/HR |
| | ----(49) | ----(78) | ----(5) | ----(49) | ----(78) | ----(5) | ----(49) | ----(78) |
| MONTHLY SUMMARY (AUG) | | | | | | | | |
| MN | 6.737 | 0. | 0. | 6.890 | 0. | 0. | 2.758 | 0. |
| MX | 6.737 | 0. | 0. | 6.890 | 0. | 0. | 2.758 | 0. |
| SM | 2506.197 | 0. | 0. | 2562.957 | 0. | 0. | 1026.056 | 0. |
| AV | 6.737 | 0. | 0. | 6.890 | 0. | 0. | 2.758 | 0. |
| MONTHLY SUMMARY (SEP) | | | | | | | | |
| MN | 6.737 | 0. | 0. | 6.890 | 0. | 0. | 2.758 | 0. |
| MX | 6.737 | 0. | 0. | 6.890 | 0. | 0. | 2.758 | 0. |
| SM | 2425.352 | 0. | 0. | 2480.281 | 0. | 0. | 992.958 | 0. |
| AV | 6.737 | 0. | 0. | 6.890 | 0. | 0. | 2.758 | 0. |
| MONTHLY SUMMARY (OCT) | | | | | | | | |
| MN | 6.737 | -361032. | -381443. | 6.890 | -369208. | -189252. | 2.758 | -179073. |
| MX | 6.737 | 0. | 0. | 6.890 | 0. | 0. | 2.758 | 0. |
| SM | 2506.197 | -69318032. | -15824170. | 2562.957 | -70887984. | -7279922. | 1026.056 | -34382056. |
| AV | 6.737 | -186339. | -42538. | 6.890 | -190559. | -19570. | 2.758 | -92425. |
| MONTHLY SUMMARY (NOV) | | | | | | | | |
| MN | 6.737 | -361032. | -423257. | 6.890 | -369208. | -190431. | 2.758 | -179073. |
| MX | 6.737 | -361032. | 0. | 6.890 | -369208. | 0. | 2.758 | -179073. |
| SM | 2425.352 | -129971296. | -49313888. | 2480.281 | -132914928. | -27154988. | 992.958 | -64466376. |
| AV | 6.737 | -361031. | -136983. | 6.890 | -369208. | -75431. | 2.758 | -179073. |
| MONTHLY SUMMARY (DEC) | | | | | | | | |
| MN | 6.737 | -361032. | -421671. | 6.890 | -369208. | -200480. | 2.758 | -179073. |
| MX | 6.737 | -361032. | -38247. | 6.890 | -369208. | 0. | 2.758 | -179073. |
| SM | 2506.197 | -134303680. | -75891464. | 2562.957 | -137345424. | -46492648. | 1026.056 | -66615256. |
| AV | 6.737 | -361031. | -204009. | 6.890 | -369208. | -124980. | 2.758 | -179073. |
| YEARLY SUMMARY | | | | | | | | |
| MN | 6.737 | -361032. | -425978. | 6.890 | -369208. | -203116. | 2.758 | -179073. |
| MX | 6.737 | 0. | 0. | 6.890 | 0. | 0. | 2.758 | 0. |
| SM | 29508.449 | -853478208. | -383723520. | 30176.754 | -872808064. | -288163552. | 12080.984 | -423329184. |
| AV | 6.737 | -194858. | -87608. | 6.890 | -199271. | -65791. | 2.758 | -96651. |

| MMDDHH | AHU-9 | AHU-9 | AHU-9 |
|-----------------------|-------------------------------|--------------------------|-------------------------------|
| | TOT HTG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | HEATING CAPACITY BTU/HR |
| | ---- (5) | ---- (49) | ---- (78) |
| MONTHLY SUMMARY (JAN) | | | |
| MN | -236467. | 3.239 | -210316. |
| MK | -27739. | 3.239 | -210316. |
| SM | -61538616. | 1205.071 | -78237464. |
| AV | -165426. | 3.239 | -210316. |
| MONTHLY SUMMARY (FEB) | | | |
| MN | -237144. | 3.239 | -210316. |
| MK | -63428. | 3.239 | -210316. |
| SM | -58978400. | 1088.451 | -70666088. |
| AV | -175531. | 3.239 | -210316. |
| MONTHLY SUMMARY (MAR) | | | |
| MN | -238546. | 3.239 | -210316. |
| MK | -12458. | 3.239 | -210316. |
| SM | -63528288. | 1205.071 | -78237464. |
| AV | -170775. | 3.239 | -210316. |
| MONTHLY SUMMARY (APR) | | | |
| MN | -236995. | 3.239 | -210316. |
| MK | -8366. | 3.239 | -210316. |
| SM | -49731452. | 1166.197 | -75713672. |
| AV | -138143. | 3.239 | -210316. |
| MONTHLY SUMMARY (MAY) | | | |
| MN | 0. | 3.239 | 0. |
| MK | 0. | 3.239 | 0. |
| SM | 0. | 1205.071 | 0. |
| AV | 0. | 3.239 | 0. |
| MONTHLY SUMMARY (JUN) | | | |
| MN | 0. | 3.239 | 0. |
| MK | 0. | 3.239 | 0. |
| SM | 0. | 1166.197 | 0. |
| AV | 0. | 3.239 | 0. |
| MONTHLY SUMMARY (JUL) | | | |
| MN | 0. | 3.239 | 0. |
| MK | 0. | 3.239 | 0. |
| SM | 0. | 1205.071 | 0. |
| AV | 0. | 3.239 | 0. |

| | AHU-9 | AHU-9 | AHU-9 |
|-----------------------|-------------------------------|--------------------------|-------------------------------|
| | TOT HTG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | HEATING CAPACITY BTU/HR |
| | ---- (5) | ----(49) | ----(78) |
| MONTHLY SUMMARY (AUG) | | | |
| MN | 0. | 3.239 | 0. |
| MX | 0. | 3.239 | 0. |
| SM | 0. | 1205.071 | 0. |
| AV | 0. | 3.239 | 0. |
| MONTHLY SUMMARY (SEP) | | | |
| MN | 0. | 3.239 | 0. |
| MX | 0. | 3.239 | 0. |
| SM | 0. | 1166.197 | 0. |
| AV | 0. | 3.239 | 0. |
| MONTHLY SUMMARY (OCT) | | | |
| MN | -222258. | 3.239 | -210316. |
| MX | 0. | 3.239 | 0. |
| SM | -8521327. | 1205.071 | -40380628. |
| AV | -22907. | 3.239 | -108550. |
| MONTHLY SUMMARY (NOV) | | | |
| MN | -223642. | 3.239 | -210316. |
| MX | 0. | 3.239 | -210316. |
| SM | -30775616. | 1166.197 | -75713672. |
| AV | -85488. | 3.239 | -210316. |
| MONTHLY SUMMARY (DEC) | | | |
| MN | -235450. | 3.239 | -210316. |
| MX | 0. | 3.239 | -210316. |
| SM | -52135216. | 1205.071 | -78237464. |
| AV | -140148. | 3.239 | -210316. |
| YEARLY SUMMARY | | | |
| MN | -238546. | 3.239 | -210316. |
| MX | 0. | 3.239 | 0. |
| SM | -325208960. | 14188.732 | -497186464. |
| AV | -74249. | 3.239 | -113513. |

| S I T E E N E R G Y | | | | | | | | | | | | | |
|---------------------|-----------------------|--------------------------|-------------------------|------------------|-----------------------------|--------------------------|--------------------------|--------------------------|--------------------------|------------------------|------------------------|-------------------------|---------------------------|
| MONTH | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| | TOTAL HEAT LOAD | TOTAL COOLING LOAD | TOTAL ELECTR LOAD | RCVRED ENBRGY | WASTED RCVRABL ENERGY | FUEL INPUT COOLING | ELEC INPUT COOLING | FUEL INPUT HEATING | ELEC INPUT HEATING | FUEL INPUT ELECT | TOTAL FUEL INPUT | TOTAL SITE ENERGY | TOTAL SOURCE ENERGY |
| JAN | 693.8 | 0.0 | 349.0 102.2E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 982.5 | 42.4 12.4E | 0.0 | 982.5 | 1331.5 | 2030.6 |
| FEB | 605.5 | 0.0 | 316.3 92.6E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 865.0 | 38.7 11.3E | 0.0 | 865.0 | 1181.3 | 1814.9 |
| MAR | 547.7 | 0.0 | 358.1 104.9E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 792.5 | 38.4 11.3E | 0.0 | 792.5 | 1150.6 | 1868.0 |
| APR | 339.1 | 0.0 | 325.5 95.3E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 505.4 | 29.9 8.7E | 0.0 | 505.4 | 830.9 | 1482.8 |
| MAY | 0.0 | 202.1 | 470.2 137.7E | 0.0 | 0.0 | 0.0 | 143.1 41.9E | 0.0 | 0.0 0.0E | 0.0 | 0.0 | 470.2 | 1411.9 |
| JUN | 0.0 | 431.1 | 532.7 156.0E | 0.0 | 0.0 | 0.0 | 219.5 64.3E | 0.0 | 0.0 0.0E | 0.0 | 0.0 | 532.7 | 1599.7 |
| JUL | 0.0 | 592.6 | 569.7 166.9E | 0.0 | 0.0 | 0.0 | 272.8 79.9E | 0.0 | 0.0 0.0E | 0.0 | 0.0 | 569.7 | 1710.9 |
| AUG | 0.0 | 578.3 | 589.0 172.5E | 0.0 | 0.0 | 0.0 | 264.5 77.5E | 0.0 | 0.0 0.0E | 0.0 | 0.0 | 589.0 | 1768.9 |
| SEP | 0.0 | 355.8 | 499.1 146.2E | 0.0 | 0.0 | 0.0 | 191.3 56.0E | 0.0 | 0.0 0.0E | 0.0 | 0.0 | 499.1 | 1498.9 |
| OCT | 128.9 | 206.6 | 462.7 135.5E | 0.0 | 0.0 | 0.0 | 142.3 41.7E | 194.1 | 13.2 3.9E | 0.0 | 194.1 | 656.8 | 1583.5 |
| NOV | 401.0 | 0.0 | 317.6 93.0E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 580.3 | 30.5 8.9E | 0.0 | 580.3 | 897.9 | 1534.1 |
| DEC | 629.0 | 0.0 | 345.4 101.2E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 896.0 | 40.3 11.8E | 0.0 | 896.0 | 1241.4 | 1933.2 |
| | 3345.1 | 2366.6 | 5135.4 1504.0E | 0.0 | 0.0 | 0.0 | 1233.4 361.2E | 4815.8 | 233.3 68.3E | 0.0 | 4815.8 | 9951.2 | 20237.5 |

NOTE-- ALL ENTRIES ARE IN MBTU EXCEPT
 ENTRIES FOLLOWED BY E ARE IN MWH (THOUSANDS OF KWH)

EMTECH ENGINEERING
 READING, PA 19603
 REPORT- PS-B MONTHLY PEAK AND TOTAL ENERGY USE

BZDOB - ELITE SOFTWARE DEVELOPMENT INC
 FT. GEORGE G. MEADE

DOR-2.1D 12/11/1995 13:32:3 PDL RUN 1
 EMCS STUDY WEATHER FILE- BALTIMORE, MD

| MO | UTILITY- | ELECTRICITY | NATURAL-GAS |
|-----|--------------|-------------|-------------|
| | TOTAL (MBTU) | 349.015 | 982.492 |
| JAN | PEAK (KBTU) | 1224.857 | 4229.744 |
| | DY/HR | 31/17 | 10/ 7 |
| | TOTAL (MBTU) | 316.318 | 865.022 |
| FEB | PEAK (KBTU) | 1224.857 | 4217.551 |
| | DY/HR | 28/17 | 22/ 7 |
| | TOTAL (MBTU) | 358.120 | 792.518 |
| MAR | PEAK (KBTU) | 1224.857 | 4177.795 |
| | DY/HR | 31/17 | 7/ 7 |
| | TOTAL (MBTU) | 325.471 | 505.407 |
| APR | PEAK (KBTU) | 1224.857 | 4015.645 |
| | DY/HR | 29/ 9 | 4/ 7 |
| | TOTAL (MBTU) | 470.177 | 0.000 |
| MAY | PEAK (KBTU) | 1807.657 | 0.000 |
| | DY/HR | 6/17 | 31/ 1 |
| | TOTAL (MBTU) | 532.715 | 0.000 |
| JUN | PEAK (KBTU) | 2076.801 | 0.000 |
| | DY/HR | 10/16 | 30/ 1 |
| | TOTAL (MBTU) | 569.720 | 0.000 |
| JUL | PEAK (KBTU) | 2382.596 | 0.000 |
| | DY/HR | 25/14 | 31/ 1 |
| | TOTAL (MBTU) | 589.037 | 0.000 |
| AUG | PEAK (KBTU) | 2357.162 | 0.000 |
| | DY/HR | 18/17 | 31/ 1 |
| | TOTAL (MBTU) | 499.145 | 0.000 |
| SEP | PEAK (KBTU) | 2047.222 | 0.000 |
| | DY/HR | 2/14 | 30/ 1 |
| | TOTAL (MBTU) | 462.667 | 194.123 |
| OCT | PEAK (KBTU) | 1791.649 | 3920.592 |
| | DY/HR | 13/16 | 24/ 7 |
| | TOTAL (MBTU) | 317.631 | 580.279 |
| NOV | PEAK (KBTU) | 1224.857 | 4185.006 |
| | DY/HR | 30/17 | 28/ 7 |
| | TOTAL (MBTU) | 345.407 | 895.957 |
| DEC | PEAK (KBTU) | 1224.857 | 4197.096 |
| | DY/HR | 30/17 | 5/ 7 |
| | ONE YEAR | 5135.423 | 4815.797 |
| | USE/PEAK | 2382.596 | 4229.744 |

ENTECH ENGINEERING
READING, PA 19603
REPORT- PS-D PLANT LOADS SATISFIED

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
FT. GEORGE G. MEADE

DOB-2.1D 12/11/1995 13:32: 3 PDL RUN 1
EMCS STUDY

WEATHER FILE- BALTIMORE, MD

| HEATING LOADS | MBTU SUPPLIED | PCT OF TOTAL LOAD |
|---------------------|---------------|-------------------|
| ----- | ----- | ----- |
| HW-BOILER | 3345.1 | 100.0 |
| | ----- | ----- |
| LOAD SATISFIED | 3345.1 | 100.0 |
| TOTAL LOAD ON PLANT | 3345.1 | |

| COOLING LOADS | MBTU SUPPLIED | PCT OF TOTAL LOAD |
|---------------------|---------------|-------------------|
| ----- | ----- | ----- |
| HERM-REC-CHLR | 2366.6 | 100.0 |
| | ----- | ----- |
| LOAD SATISFIED | 2366.6 | 100.0 |
| TOTAL LOAD ON PLANT | 2366.6 | |

| ELECTRICAL LOADS | MBTU SUPPLIED | PCT OF TOTAL LOAD |
|---------------------|---------------|-------------------|
| ----- | ----- | ----- |
| ELECTRICITY | 5135.4 | 100.0 |
| | ----- | ----- |
| LOAD SATISFIED | 5135.4 | 100.0 |
| TOTAL LOAD ON PLANT | 5135.4 | |

ENTRCH ENGINEERING
READING, PA 19603
REPORT- PS-D PLANT LOADS SATISFIED

BZDOE - ELITE SOFTWARE DEVELOPMENT INC
FT. GEORGE G. MEADE

DOE-2.1D 12/11/1995 13:32: 3 PDL RUN 1
EMCS STUDY WEATHER FILE- BALTIMORE, MD

(CONTINUED)

SUMMARY OF LOADS MET

| TYPE OF LOAD | TOTAL LOAD (MBTU) | LOAD SATISFIED (MBTU) | TOTAL OVERLOAD (MBTU) | PEAK OVERLOAD (MBTU) | HOURS OVERLOADED |
|------------------|-------------------------|-----------------------------|-----------------------------|----------------------------|---------------------|
| HEATING LOADS | 3345.1 | 3345.1 | 0.000 | 0.000 | 0 |
| COOLING LOADS | 2366.6 | 2366.6 | 0.000 | 0.000 | 0 |
| ELECTRICAL LOADS | 5135.4 | 5135.4 | 0.000 | 0.000 | 0 |

ENTTECH ENGINEERING
 READING, PA 19603
 REPORT- PS-H EQUIPMENT USE STATISTICS

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
 FT. GEORGE G. MEADE

DOB-2.1D 12/11/1995 13:32: 3 PDL RUN 1
 EMCS STUDY
 WEATHER FILE- BALTIMORE, MD

| EQUIPMENT | AVG OPER RATIO | MAX LOAD (MBTU) | MON | | ----- | | ----- | | ----- | | ----- | |
|---------------|----------------------|-----------------------|-----|----|----------------|-------------|----------------|-------------|----------------|-------------|----------------|-------------|
| | | | DAY | HR | SIZE (MBTU) | OPER HRS | SIZE (MBTU) | OPER HRS | SIZE (MBTU) | OPER HRS | SIZE (MBTU) | OPER HRS |
| HW-BOILER | 0.186 | 3.309 | 1 | 10 | 7 | 3.800 | 4728 | | | | | |
| HERM-REC-CHLR | 0.192 | 2.811 | 8 | 18 | 17 | 2.800 | 4397 | | | | | |

ENTECH ENGINEERING
READING, PA 19603
REPORT- PS-I EQUIPMENT LIFE CYCLE COSTS

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
FT. GEORGE G. MEADE

DOE-2.1D 12/11/1995 13:32: 3 PDL RUN 1
EMCS STUDY
WEATHER FILE- BALTIMORE, MD

E Q U I P M E N T T O T A L S

| | | | |
|-----------------------|-------|-------|--|
| HW-BOILER | 95.7 | | |
| NOMINAL SIZE (MBTU) | | 3.800 | |
| NUMBER INSTALLED | | 1 | |
| FIRST COST (K\$) | 86.8 | 86.8 | |
| ANNUAL COST (K\$) | 1.1 | 1.1 | |
| CYCLICAL COST (K\$) | 7.8 | 7.8 | |
| -----TOTAL----- (K\$) | | 95.7 | |
| HERM-REC-CHLR | 107.2 | | |
| NOMINAL SIZE (MBTU) | | 2.800 | |
| NUMBER INSTALLED | | 2 | |
| FIRST COST (K\$) | 90.5 | 90.5 | |
| ANNUAL COST (K\$) | 10.9 | 10.9 | |
| CYCLICAL COST (K\$) | 5.8 | 5.8 | |
| -----TOTAL----- (K\$) | | 107.2 | |
| EQUIPMENT TOTAL | 202.8 | | |

| ENERGY TYPE IN SITE MBTU - | ELECTRICITY | NATURAL-GAS |
|-------------------------------|-------------|-------------|
| CATEGORY OF USE | | |
| SPACE HEAT | 172.23 | 4815.69 |
| SPACE COOL | 882.24 | 0.00 |
| HVAC AUX | 1314.31 | 0.00 |
| DOM HOT WTR | 0.00 | 0.00 |
| AUX SOLAR | 0.00 | 0.00 |
| LIGHTS | 1913.30 | 0.00 |
| VERT TRANS | 0.00 | 0.00 |
| MISC EQUIP | 853.30 | 0.00 |
| TOTAL | 5135.39 | 4815.69 |

TOTAL SITE ENERGY 9951.22 MBTU 82.1 KBTU/SQFT-YR GROSS-AREA 82.1 KBTU/SQFT-YR NET-AREA
 TOTAL SOURCE ENERGY 20237.49 MBTU 167.0 KBTU/SQFT-YR GROSS-AREA 167.0 KBTU/SQFT-YR NET-AREA

PERCENT OF HOURS ANY SYSTEM ZONE OUTSIDE OF THROTTLING RANGE = 54.4
 PERCENT OF HOURS ANY PLANT LOAD NOT SATISFIED = 0.0

NOTE ELECTRICITY AND/OR FUEL USED TO GENERATE ELECTRICITY IS APPORTIONED BASED
 ON THE YEARLY DEMAND. ALL OTHER ENERGY TYPES ARE APPORTIONED HOURLY.

| MMDH | HERM-REC -CHLR ELECTRIC USE BTU/HR | HERM-REC -CHLR LOAD BTU/HR | HERM-REC -CHLR CONDENSER FAN ELEC BTU/HR | HW-BOILE R LOAD BTU/HR | HW-BOILE R FUEL USE BTU/HR | HW-BOILE R ELECTRIC USE BTU/HR |
|-----------------------|------------------------------------------------|-------------------------------------|------------------------------------------------------|---------------------------------|----------------------------------------|--------------------------------------------|
| | ---- (3) | ---- (1) | ----(18) | ---- (1) | ---- (4) | ---- (3) |
| MONTHLY SUMMARY (JAN) | | | | | | |
| MN | 0. | 0. | 0. | 26374. | 43099. | 2321. |
| MX | 0. | 0. | 0. | 3309360. | 4229744. | 83600. |
| SM | 0. | 0. | 0. | 693849408. | 982494848. | 32771800. |
| AV | 0. | 0. | 0. | 932593. | 1320558. | 44048. |
| MONTHLY SUMMARY (FEB) | | | | | | |
| MN | 0. | 0. | 0. | 26374. | 43099. | 2321. |
| MX | 0. | 0. | 0. | 3298001. | 4217551. | 83600. |
| SM | 0. | 0. | 0. | 605536448. | 865023616. | 29995112. |
| AV | 0. | 0. | 0. | 901096. | 1287238. | 44636. |
| MONTHLY SUMMARY (MAR) | | | | | | |
| MN | 0. | 0. | 0. | 26374. | 43099. | 2321. |
| MX | 0. | 0. | 0. | 3261009. | 4177795. | 83600. |
| SM | 0. | 0. | 0. | 547661696. | 792519424. | 28837508. |
| AV | 0. | 0. | 0. | 736104. | 1065214. | 38760. |
| MONTHLY SUMMARY (APR) | | | | | | |
| MN | 0. | 0. | 0. | 26374. | 43099. | 2321. |
| MX | 0. | 0. | 0. | 3110817. | 4015645. | 83600. |
| SM | 0. | 0. | 0. | 339102592. | 505405984. | 20570868. |
| AV | 0. | 0. | 0. | 470976. | 701953. | 28571. |
| MONTHLY SUMMARY (MAY) | | | | | | |
| MN | 55877. | 127958. | 14331. | 0. | 0. | 0. |
| MX | 599364. | 1683285. | 78400. | 0. | 0. | 0. |
| SM | 83580016. | 202139328. | 18262276. | 0. | 0. | 0. |
| AV | 112339. | 271693. | 24546. | 0. | 0. | 0. |
| MONTHLY SUMMARY (JUN) | | | | | | |
| MN | 55877. | 127958. | 14331. | 0. | 0. | 0. |
| MX | 868507. | 2585964. | 78400. | 0. | 0. | 0. |
| SM | 161907904. | 431146112. | 26314550. | 0. | 0. | 0. |
| AV | 224872. | 598814. | 36548. | 0. | 0. | 0. |
| MONTHLY SUMMARY (JUL) | | | | | | |
| MN | 55877. | 127958. | 14331. | 0. | 0. | 0. |
| MX | 1174303. | 2770856. | 156800. | 0. | 0. | 0. |
| SM | 213295568. | 592561472. | 32016658. | 0. | 0. | 0. |
| AV | 286688. | 796454. | 43033. | 0. | 0. | 0. |

| | HERM-REC -CHLR ELECTRIC USE BTU/HR | HERM-REC -CHLR LOAD BTU/HR | HERM-REC -CHLR CONDENS FAN ELEC BTU/HR | HW-BOILE R LOAD BTU/HR | HW-BOILE R FUEL USE BTU/HR | HW-BOILE R ELECTRIC USE BTU/HR |
|-----------------------|------------------------------------------------|-------------------------------------|----------------------------------------------------|---------------------------------|----------------------------------------|--------------------------------------------|
| | ----(3) | ----(1) | ----(18) | ----(1) | ----(4) | ----(3) |
| MONTHLY SUMMARY (AUG) | | | | | | |
| MN | 55877. | 127958. | 14331. | 0. | 0. | 0. |
| MX | 1148869. | 2810543. | 156800. | 0. | 0. | 0. |
| SM | 205021616. | 578320256. | 30373192. | 0. | 0. | 0. |
| AV | 275567. | 777312. | 40824. | 0. | 0. | 0. |
| MONTHLY SUMMARY (SEP) | | | | | | |
| MN | 55877. | 127958. | 14331. | 0. | 0. | 0. |
| MX | 838929. | 2553886. | 78400. | 0. | 0. | 0. |
| SM | 133697512. | 355776832. | 23564024. | 0. | 0. | 0. |
| AV | 185691. | 494135. | 32728. | 0. | 0. | 0. |
| MONTHLY SUMMARY (OCT) | | | | | | |
| MN | 0. | 0. | 0. | 0. | 0. | 0. |
| MX | 583356. | 1666185. | 78400. | 3023277. | 3920592. | 83600. |
| SM | 84740656. | 206618640. | 18969730. | 128889480. | 194123216. | 8207673. |
| AV | 113899. | 277713. | 25497. | 173239. | 260918. | 11032. |
| MONTHLY SUMMARY (NOV) | | | | | | |
| MN | 0. | 0. | 0. | 26374. | 43099. | 2321. |
| MX | 0. | 0. | 0. | 3267714. | 4185006. | 83600. |
| SM | 0. | 0. | 0. | 401033536. | 580278656. | 21172644. |
| AV | 0. | 0. | 0. | 556991. | 805943. | 29406. |
| MONTHLY SUMMARY (DEC) | | | | | | |
| MN | 0. | 0. | 0. | 26374. | 43099. | 2321. |
| MX | 0. | 0. | 0. | 3278960. | 4197096. | 83600. |
| SM | 0. | 0. | 0. | 628994368. | 895958976. | 10678228. |
| AV | 0. | 0. | 0. | 845423. | 1204246. | 41234. |
| YEARLY SUMMARY | | | | | | |
| MN | 0. | 0. | 0. | 0. | 0. | 0. |
| MX | 1174303. | 2810543. | 156800. | 3309360. | 4229744. | 83600. |
| SM | 882243328. | 2366562560. | 149500432. | 3345067520. | 4815804928. | 172233824. |
| AV | 100713. | 270156. | 17066. | 381857. | 549749. | 19661. |

FT. MEADE, MARYLAND

Building: 4551

Square feet 13,614

| Exterior Wall | |
|-----------------|-------------|
| Components | R-Value |
| Outside Surface | 0.17 |
| Brick | 0.44 |
| Concrete Block | 1.72 |
| Air Space | 1.10 |
| Plaster | 0.56 |
| Inside Surface | 0.68 |
| | |
| Total R-Value | 4.67 |
| Total U-Value | 0.21 |

| Exterior Roof | |
|-----------------|-------------|
| Components | R-Value |
| Outside Surface | 0.17 |
| Slate Shingles | 0.05 |
| Wood Deck | 0.93 |
| Air Space | 1.10 |
| Plaster | 0.56 |
| Inside Surface | 0.61 |
| | |
| Total R-Value | 3.42 |
| Total U-Value | 0.29 |

| Calculated Total Area | |
|------------------------------|-------|
| No. of Floors | 2 |
| Avg. Floor to Floor Height | 12 |
| No. of Basement Levels | 1 |
| Gross Floor Area | 13614 |
| Roof Area | 5720 |
| Estimated Infiltration (cfm) | 5600 |
| Gross Wall Area | 8215 |
| Door Area | 130 |
| Gross Window Area | 825 |
| Other | |
| Net Wall Area | 7260 |

| Window and Door | |
|-----------------------------|---------|
| | U-Value |
| Window Single Pane W/Storm | 0.60 |
| Window Single Pane Wo/Storm | |
| Window Double Pane | |
| Skylight | |
| Glass Block | |
| Other | |
| Door Type 1 | 0.50 |
| Door Type 2 | |
| Door Type 3 | |

$$U_oA_o = (7260 \times 0.21) + (5720 \times 0.11) + (825 \times 0.6) + (130 \times 0.5) = 2713.8$$

**FT. MEADE, MARYLAND
EQUIPMENT SCHEDULE**

BUILDING NO. 4551

Page 1 of 1

| EQUIPMENT | SYSTEM NUMBER | | | | | | | |
|------------------------------|------------------------------------------------------------------------------------------|--------------|----------------|------------------------------------------------------------------------------|--------------|------------------|----------------|-------------------------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| COOLING: | AHU-1 | AHU-2 | AHU-4 | Boiler | AHU-3 | Fan Coils | Chiller | |
| Type of Cooling | 3 | 3 | 3 | | 1 | 3 | 3 | |
| Air Side | 2 | 2 | 2 | | 1 | 1 | | |
| Location in Building | West 1st Flr | East 1st Flr | Center 2nd Flr | | Conf Rm | Bsmt, 1st, 2nd | | |
| Area Sq. Feet | 1450 | 1450 | 2900 | | 900 | 6300 | | |
| Supply CFM | 2675 | 2170 | 2735 | | 1200 | | | |
| Supply Fan HP | 1 | 1 | 3/4 | | 3/4 | 3 | | |
| O.A. CFM or % | 20% | 20% | 20% | | 20% | 0% | | |
| Return CFM | | | | | | | | |
| Return Fan HP | | | | | | | | |
| Chiller Tonnage | | | | | | | 50 | |
| Tower or Condenser Fan HP | | | | | | | | |
| Condenser Pump HP | | | | | | | | |
| Chilled Water Pump HP | | | | | | | | 2 |
| HEATING: | | | | | | | | |
| Type of Heating | | | | 1 | | | | |
| Source | | | | 1 | | | | |
| MBTUH | | | | 1697/1356 | | | | |
| Hot Water Pump HP | | | | 2 | | | | |
| Condensate Pump HP | | | | | | | | |
| ADDITIONAL: | | | | | | | | |
| Aux. HP Cooling | | | | | | | | |
| Aux. HP Heating | | | | | | | | |
| Operating Schedule Hrs./Week | | | | | | | | |
| Type of Cooling | (1) Air Cooled DX (4) Water Cooled Chiller (5) Central Plant Supplied (6) Other | | | Type of Heating | | | | |
| Air Side | (4) VAV w/ Reheat (5) Constant Volume Reheat (6) Heating and Ventilating | | | (1) Boiler Hot Water (2) Boiler Steam (3) Steam to Hot Water Converter | | | | (4) Furnace |
| (1) Single Zone | | | | (1) Natural Gas (2) Central Plant Steam (3) Central Plant Hot Water | | | | (4) Oil (5) Electric |
| (2) Multi-Zone | | | | | | | | |
| (3) VAV | | | | | | | | |

EMCS Annual Energy Savings Summary Report

```

=====
Base: FTMEADE
Building: 4551
Case: 1
Description: GARRISON HDQTRS
=====

```

```

=====
Fuel Type: Natural gas (methane)
Heating Value: 1,031 Btu/cf
=====

```

Caution

```

=====
The ESA program makes no attempt to exclude incompatible strategies.
It is the user's responsibility to select all appropriate strategies.
=====

```

Annual Energy Savings Table for Multi-zone AHU

```

=====
Description: AHU-1 WEST 1ST FLOOR MULTIZONE
=====

```

| Strategy | MBtu/yr | kWh/yr | kW | mh/yr |
|---------------------|------------------|-----------------|-----------|------------|
| Demand Limiting | 0.000 | 0 | 0.4 | 0 |
| Day/Night Setback | 41.826 | 104 | 0.0 | 0 |
| Vent/Recirculation | 8.668 | 0 | 0.0 | 0 |
| Hot/Cold Deck Reset | 22.357 | 1,088 | 0.0 | 0 |
| Run Time Recording | 0.000 | 0 | 0.0 | 2 |
| Safety Alarm | 0.000 | 0 | 0.0 | 2 |
| Subtotals | 72.851 | 1,192 | 0.4 | 4 |
| Heating Value / | 1,031 Btu/cf | | | |
| Totals | 70,660 cf /yr | 1,192 kWh/yr | 0.4 kW | 4 mh/yr |

Annual Energy Savings Table for Multi-zone AHU

| Description: AHU-2 EAST 1ST FLOOR MULTIZONE | | | | |
|---------------------------------------------|------------------|---------------|-----------|------------|
| Strategy | MBtu/yr | kWh/yr | kW | mh/yr |
| Demand Limiting | 0.000 | 0 | 0.1 | 0 |
| Day/Night Setback | 41.826 | 104 | 0.0 | 0 |
| Vent/Recirculation | 7.032 | 0 | 0.0 | 0 |
| Hot/Cold Deck Reset | 18.136 | 883 | 0.0 | 0 |
| Run Time Recording | 0.000 | 0 | 0.0 | 2 |
| Safety Alarm | 0.000 | 0 | 0.0 | 2 |
| Subtotals | 66.994 | 987 | 0.1 | 4 |
| Heating Value / | 1,031 Btu/cf | | | |
| Totals | 64,979 cf /yr | 987 kWh/yr | 0.1 kW | 4 mh/yr |

Annual Energy Savings Table for Multi-zone AHU

| Description: AHU-4 2ND FLOOR CENTER MULTIZONE | | | | |
|-----------------------------------------------|-------------------|-----------------|-----------|------------|
| Strategy | MBtu/yr | kWh/yr | kW | mh/yr |
| Demand Limiting | 0.000 | 0 | 0.1 | 0 |
| Day/Night Setback | 83.652 | 207 | 0.0 | 0 |
| Vent/Recirculation | 8.863 | 0 | 0.0 | 0 |
| Hot/Cold Deck Reset | 22.858 | 1,113 | 0.0 | 0 |
| Run Time Recording | 0.000 | 0 | 0.0 | 2 |
| Safety Alarm | 0.000 | 0 | 0.0 | 2 |
| Subtotals | 115.373 | 1,320 | 0.1 | 4 |
| Heating Value / | 1,031 Btu/cf | | | |
| Totals | 111,904 cf /yr | 1,320 kWh/yr | 0.1 kW | 4 mh/yr |

Annual Energy Savings Table for Single Zone DX-A/C

| Description: AHU-3 Conference Room Heat Pump | | | | |
|----------------------------------------------|------------------|--------------|-----------|------------|
| Strategy | MBtu/yr | kWh/yr | kW | mh/yr |
| Demand Limiting | 0.000 | 0 | 0.1 | 0 |
| Day/Night Setback | 20.769 | 96 | 0.0 | 0 |
| Vent/Recirculation | 3.111 | 0 | 0.0 | 0 |
| Run Time Recording | 0.000 | 0 | 0.0 | 2 |
| Safety Alarm | 0.000 | 0 | 0.0 | 2 |
| Subtotals | 23.880 | 96 | 0.1 | 4 |
| Heating Value / | 1,031 Btu/cf | | | |
| Totals | 23,162 cf /yr | 96 kWh/yr | 0.1 kW | 4 mh/yr |

Annual Energy Savings Table for Two Pipe Fan Coil Unit

| Description: FAN COIL UNITS | | | | |
|-----------------------------|-------------------|---------------|-----------|------------|
| Strategy | MBtu/yr | kWh/yr | kW | mh/yr |
| Day/Night Setback | 181.727 | 450 | 0.0 | 0 |
| Run Time Recording | 0.000 | 0 | 0.0 | 2 |
| Safety Alarm | 0.000 | 0 | 0.0 | 2 |
| Subtotals | 181.727 | 450 | 0.0 | 4 |
| Heating Value / | 1,031 Btu/cf | | | |
| Totals | 176,263 cf /yr | 450 kWh/yr | 0.0 kW | 4 mh/yr |

Annual Energy Savings Table for Hot Water Boiler

| Description: BOILER | | | | |
|---------------------|-------------------|-------------|-----------|------------|
| Strategy | MBtu/yr | kWh/yr | kW | mh/yr |
| Hot Water OA Reset | 254.550 | 0 | 0.0 | 0 |
| Run Time Recording | 0.000 | 0 | 0.0 | 2 |
| Safety Alarm | 0.000 | 0 | 0.0 | 2 |
| Subtotals | 254.550 | 0 | 0.0 | 4 |
| Heating Value / | 1,031 Btu/cf | | | |
| Totals | 246,896 cf /yr | 0 kWh/yr | 0.0 kW | 4 mh/yr |

Annual Energy Savings Table for Air Cooled Chiller

| Description: CHILLER | | | | |
|----------------------|------------------|-----------------|-----------|------------|
| Strategy | MBtu/yr | kWh/yr | kW | mh/yr |
| Scheduled Start/Stop | 0.000 | 392 | 0.0 | 0 |
| Chiller Water Reset | 0.000 | 2,088 | 0.0 | 0 |
| Run Time Recording | 0.000 | 0 | 0.0 | 2 |
| Safety Alarm | 0.000 | 0 | 0.0 | 2 |
| Totals | 0.000 MBtu/yr | 2,480 kWh/yr | 0.0 kW | 4 mh/yr |

Annual Energy Savings Table for Lighting Control

| Description: Lighting | | | | |
|-----------------------|------------------|------------------|-----------|------------|
| Strategy | MBtu/yr | kWh/yr | kW | mh/yr |
| Lighting Control | 0.000 | 37,440 | 0.0 | 0 |
| Totals | 0.000 MBtu/yr | 37,440 kWh/yr | 0.0 kW | 0 mh/yr |

EMCS Annual Energy Savings for Building 4551

| Description | Value | Units |
|-----------------------------|---------|--------|
| Natural gas (methane) | 693,864 | cf /yr |
| Electrical Energy | 43,965 | kWh/yr |
| Electrical Demand Reduction | 0.8 | kW |
| Labor Savings | 28 | mh/yr |

FT. MEADE, MARYLAND

Building: 4552

Square feet 67,824

| Exterior Wall | |
|-----------------|-------------|
| Components | R-Value |
| Outside Surface | 0.17 |
| Brick | 0.44 |
| Air Space | 1.10 |
| Concrete Block | 1.72 |
| Plaster | 0.56 |
| Inside Surface | 0.68 |
| | |
| | |
| Total R-Value | 4.67 |
| Total U-Value | 0.21 |

| Exterior Roof | |
|-----------------|--------------|
| Components | R-Value |
| Outside Surface | 0.17 |
| Slate | 0.33 |
| Wood Deck | 0.93 |
| 2" Insulation | 12.00 |
| Plaster Clg | 0.56 |
| Inside Surface | 0.61 |
| | |
| | |
| Total R-Value | 14.60 |
| Total U-Value | 0.07 |

| Calculated Total Area | |
|------------------------------|-------|
| No. of Floors | 4 |
| Avg. Floor to Floor Height | 12 |
| No. of Basement Levels | 1 |
| Gross Floor Area | 67824 |
| Roof Area | 13600 |
| Estimated Infiltration (cfm) | 8200 |
| Gross Wall Area | 29020 |
| Door Area | 100 |
| Gross Window Area | 900 |
| Other | |
| Net Wall Area | 28020 |

| Window and Door | |
|-----------------------------|---------|
| | U-Value |
| Window Single Pane W/Storm | 0.60 |
| Window Single Pane Wo/Storm | |
| Window Double Pane | |
| Skylight | |
| Glass Block | |
| Other | |
| Door Type 1 | 0.50 |
| Door Type 2 | |
| Door Type 3 | |

**FT. MEADE, MARYLAND
EQUIPMENT SCHEDULE**

BUILDING NO. 4552

Page 1 of 1

| EQUIPMENT | SYSTEM NUMBER | | | | | | | |
|------------------------------|----------------------------------|---------|---------|---------|----------|---------------|---------|-----------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| Equipment Name | AC-1 | AC-2 | AC-3 | AC-4 | AC-25 | AC-26 | AC-27 | Boiler |
| COOLING: | | | | | | | | |
| Type of Cooling | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| Air Side | 1 | 2 | 2 | 2 | 1 | 1 | 2 | |
| Location in Building | 1/2 BSMT | 1st Flr | 2nd Flr | 3rd Flr | 1/2 BSMT | 1st Flr North | 4th Flr | |
| Area Sq. Feet | 4500 | 11500 | 13600 | 13600 | 9100 | 2100 | 10000 | |
| Supply CFM | 4520 | 13510 | 16615 | 18630 | 10000 | 2300 | 11000 | |
| Supply Fan HP | 2 | 10 | 15 | 15 | 10 | 1 1/2 | 10 | |
| O.A. CFM or % | 20% | 20% | 20% | 20% | 20% | 20% | 20% | |
| Return CFM | | | | | | | | |
| Return Fan HP | | | | | | | | |
| Chiller Tonnage | 15 | 30 | 40 | 40 | 15 | | 30 | |
| Tower or Condenser Fan HP | 2/3 | 3 | 5 | 5 | 2/3 | | 3 | |
| Condenser Pump HP | | | | | | | | |
| Chilled Water Pump HP | | | | | | | | |
| HEATING: | | | | | | | | |
| Type of Heating | | | | | | | | Two Total |
| Source | | | | | | | | 2 |
| MBTUH | | | | | | | | 1 |
| Hot Water Pump HP | | | | | | | | 2520/2052 |
| Condensate Pump HP | | | | | | | | |
| ADDITIONAL: | | | | | | | | |
| Aux. HP Cooling | | | | | | | | |
| Aux. HP Heating | | | | | | | | |
| Operating Schedule Hrs./Week | | | | | | | | |
| Type of Cooling | Type of Heating | | | | | | | |
| (1) Air Cooled DX | (1) Boiler Hot Water | | | | | | | |
| (2) Water Cooled DX | (2) Boiler Steam | | | | | | | |
| (3) Air Cooled Chiller | (3) Steam to Hot Water Converter | | | | | | | |
| | Heating Source | | | | | | | |
| (1) Single Zone | (1) Natural Gas | | | | | | | |
| (2) Multi-Zone | (2) Central Plant Steam | | | | | | | |
| (3) VAV | (3) Central Plant Hot Water | | | | | | | |

EMCS Annual Energy Savings Summary Report

```

=====
Base: FTMEADE
Building: 4552
Case: 1
Description: ADMIN
=====

```

```

=====
Fuel Type: Natural gas (methane)
Heating Value: 1,031 Btu/cf
=====

```

Caution

```

=====
The ESA program makes no attempt to exclude incompatible strategies.
It is the user's responsibility to select all appropriate strategies.
=====

```

Annual Energy Savings Table for Multi-zone DX-A/C

```

=====
Description: MULTI-ZONE UNITS (4)
=====

```

| Strategy | MBtu/yr | kWh/yr | kW | mh/yr |
|---------------------|-------------------|------------------|-----------|------------|
| Demand Limiting | 0.000 | 0 | 7.5 | 0 |
| Hot/Cold Deck Reset | 454.007 | 28,734 | 0.0 | 0 |
| Subtotals | 454.007 | 28,734 | 7.5 | 0 |
| Heating Value / | 1,031 Btu/cf | | | |
| Totals | 440,356 cf /yr | 28,734 kWh/yr | 7.5 kW | 0 mh/yr |

Annual Energy Savings Table for Lighting Control

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Description: LIGHTING
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| Strategy | MBtu/yr | kWh/yr | kW | mh/yr |
|------------------|------------------|-------------------|-----------|------------|
| Lighting Control | 0.000 | 112,320 | 0.0 | 0 |
| Totals | 0.000 MBtu/yr | 112,320 kWh/yr | 0.0 kW | 0 mh/yr |

EMCS Annual Energy Savings for Building 4552

| Description | Value | Units |
|-----------------------------|---------|--------|
| Natural gas (methane) | 440,356 | cf /yr |
| Electrical Energy | 141,054 | kWh/yr |
| Electrical Demand Reduction | 7.5 | kW |
| Labor Savings | 0 | mh/yr |

**UMCS FEASIBILITY STUDY
FORT MEADE
BUILDING 4552 - ADMINISTRATIVE
DOE ENERGY SAVINGS SUMMARY**

| | Space Heat | | Space Cool | | HVAC Aux | | Lights | | Misc Equip | | TOTAL | | TOTAL | |
|---------------------------------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|--------------------|--------------------|
| | Electricity mmBtu | Natural Gas mmBtu | Electricity mmBtu | Electricity mmBtu | Electricity mmBtu | Electricity mmBtu | Electricity mmBtu | Electricity mmBtu | Electricity mmBtu | Electricity mmBtu | Electricity mmBtu | Natural Gas mmBtu | Electricity Kwh | Natural Gas MCF |
| Existing | 151.6 | 2,839.0 | 616.4 | 1,281.5 | 1,721.8 | 652.3 | 4,423.6 | 2,839.0 | 1,296,097 | 2,753.6 | | | | |
| New w/Night Setback | 85.3 | 1,927.1 | 573.9 | 597.4 | 1,721.8 | 652.3 | 3,630.7 | 1,927.1 | 1,063,786 | 1,869.2 | | | | |
| Night Setback Savings | | | | | | | 792.9 | 911.9 | 232,312 | 884.4 | | | | |
| New w/Night Setback and Vent/Recirc | 80.6 | 1,746.3 | 571.8 | 584.5 | 1,721.8 | 652.3 | 3,610.9 | 1,746.3 | 1,057,993 | 1,693.8 | | | | |
| Vent/Recirc Savings | | | | | | | 19.8 | 180.8 | 5,793 | 175.4 | | | | |
| New w/Night Setback & Vent/Recirc & Economizer | 73.1 | 1,501.6 | 520.8 | 583.6 | 1,721.8 | 652.3 | 3,551.6 | 1,501.6 | 1,040,607 | 1,456.4 | | | | |
| Economizer Savings | | | | | | | 59.3 | 244.7 | 17,386 | 237.4 | | | | |

| MMDDHH | AHU-1 | AHU-1 | AHU-1 | AHU-1 | AHU-1 | AHU-2 | AHU-2 | AHU-2 |
|-----------------------|-------------------------------|--------------------------|-------------------------------|---------------------------|-------------------------------|-------------------------------|--------------------------|-------------------------------|
| | TOT HTG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | HEATING CAPACITY BTU/HR | COOLING ELECTRIC KW | COOLING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | HEATING CAPACITY BTU/HR |
| | ---- (5) | ---- (49) | ---- (78) | ---- (47) | ---- (70) | ---- (5) | ---- (49) | ---- (78) |
| MONTHLY SUMMARY (JAN) | | | | | | | | |
| MN | -49297. | 2.424 | -129883. | 0.000 | 149125. | -49297. | 2.424 | -129883. |
| MX | -16891. | 2.424 | -129883. | 0.000 | 152850. | -16891. | 2.424 | -129883. |
| SM | -28554714. | 1803.240 | -96633176. | 0.000 | 110958736. | -28554714. | 1803.240 | -96633176. |
| AV | -38380. | 2.424 | -129883. | 0.000 | 149138. | -38380. | 2.424 | -129883. |
| MONTHLY SUMMARY (FEB) | | | | | | | | |
| MN | -54017. | 2.424 | -129883. | 0.000 | 149125. | -54017. | 2.424 | -129883. |
| MX | -20916. | 2.424 | -129883. | 0.000 | 152493. | -20916. | 2.424 | -129883. |
| SM | -28747618. | 1628.733 | -87281576. | 0.000 | 100237568. | -28747618. | 1628.733 | -87281576. |
| AV | -42779. | 2.424 | -129883. | 0.000 | 149163. | -42779. | 2.424 | -129883. |
| MONTHLY SUMMARY (MAR) | | | | | | | | |
| MN | -53693. | 2.424 | -129883. | 0.000 | 145432. | -53693. | 2.424 | -129883. |
| MX | -19663. | 2.424 | -129883. | 0.000 | 161719. | -19663. | 2.424 | -129883. |
| SM | -31042922. | 1803.240 | -96633176. | 0.000 | 111048552. | -31042922. | 1803.240 | -96633176. |
| AV | -41724. | 2.424 | -129883. | 0.000 | 149259. | -41724. | 2.424 | -129883. |
| MONTHLY SUMMARY (APR) | | | | | | | | |
| MN | -51630. | 2.424 | -129883. | 0.000 | 141285. | -51630. | 2.424 | -129883. |
| MX | -14505. | 2.424 | -129883. | 0.000 | 163580. | -14505. | 2.424 | -129883. |
| SM | -28360426. | 1745.071 | -93515976. | 0.000 | 107746936. | -28360426. | 1745.071 | -93515976. |
| AV | -39389. | 2.424 | -129883. | 0.000 | 149649. | -39389. | 2.424 | -129883. |
| MONTHLY SUMMARY (MAY) | | | | | | | | |
| MN | 0. | 2.424 | 0. | 0.000 | 136874. | 0. | 2.424 | 0. |
| MX | 0. | 2.424 | 0. | 0.000 | 166031. | 0. | 2.424 | 0. |
| SM | 0. | 1803.240 | 0. | 0.000 | 111583248. | 0. | 1803.240 | 0. |
| AV | 0. | 2.424 | 0. | 0.000 | 149977. | 0. | 2.424 | 0. |
| MONTHLY SUMMARY (JUN) | | | | | | | | |
| MN | 0. | 2.424 | 0. | 0.000 | 134840. | 0. | 2.424 | 0. |
| MX | 0. | 2.424 | 0. | 4.136 | 181392. | 0. | 2.424 | 0. |
| SM | 0. | 1745.071 | 0. | 131.521 | 111569680. | 0. | 1745.071 | 0. |
| AV | 0. | 2.424 | 0. | 0.183 | 154958. | 0. | 2.424 | 0. |
| MONTHLY SUMMARY (JUL) | | | | | | | | |
| MN | 0. | 2.424 | 0. | 0.000 | 134542. | 0. | 2.424 | 0. |
| MX | 0. | 2.424 | 0. | 5.260 | 184054. | 0. | 2.424 | 0. |
| SM | 0. | 1803.240 | 0. | 738.248 | 117411136. | 0. | 1803.240 | 0. |
| AV | 0. | 2.424 | 0. | 0.992 | 157811. | 0. | 2.424 | 0. |

| | AHU-1 | AHU-1 | AHU-1 | AHU-1 | AHU-1 | AHU-2 | AHU-2 | AHU-2 |
|-----------------------|-------------------------------|--------------------------|-------------------------------|---------------------------|-------------------------------|-------------------------------|--------------------------|-------------------------------|
| | TOT HTG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | HEATING CAPACITY BTU/HR | COOLING ELECTRIC KW | COOLING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | HEATING CAPACITY BTU/HR |
| | ----(5) | ----(49) | ----(78) | ----(47) | ----(70) | ----(5) | ----(49) | ----(78) |
| MONTHLY SUMMARY (AUG) | | | | | | | | |
| MN | 0. | 2.424 | 0. | 0.000 | 136060. | 0. | 2.424 | 0. |
| MX | 0. | 2.424 | 0. | 6.204 | 179548. | 0. | 2.424 | 0. |
| SM | 0. | 1803.240 | 0. | 1231.659 | 113796704. | 0. | 1803.240 | 0. |
| AV | 0. | 2.424 | 0. | 1.655 | 152953. | 0. | 2.424 | 0. |
| MONTHLY SUMMARY (SEP) | | | | | | | | |
| MN | 0. | 2.424 | 0. | 0.000 | 136084. | 0. | 2.424 | 0. |
| MX | 0. | 2.424 | 0. | 6.284 | 178913. | 0. | 2.424 | 0. |
| SM | 0. | 1745.071 | 0. | 799.156 | 109352464. | 0. | 1745.071 | 0. |
| AV | 0. | 2.424 | 0. | 1.110 | 151878. | 0. | 2.424 | 0. |
| MONTHLY SUMMARY (OCT) | | | | | | | | |
| MN | -61481. | 2.424 | -129883. | 0.000 | 141099. | -61481. | 2.424 | -129883. |
| MX | 0. | 2.424 | 0. | 5.385 | 168743. | 0. | 2.424 | 0. |
| SM | -10422434. | 1803.240 | -49875180. | 1184.772 | 111937384. | -10422434. | 1803.240 | -49875180. |
| AV | -14009. | 2.424 | -67037. | 1.592 | 150453. | -14009. | 2.424 | -67037. |
| MONTHLY SUMMARY (NOV) | | | | | | | | |
| MN | -32091. | 2.424 | -129883. | 0.000 | 149125. | -32091. | 2.424 | -129883. |
| MX | -5. | 2.424 | -129883. | 0.000 | 179606. | -5. | 2.424 | -129883. |
| SM | -14635556. | 1745.071 | -93515976. | 0.000 | 108714776. | -14635556. | 1745.071 | -93515976. |
| AV | -20327. | 2.424 | -129883. | 0.000 | 150993. | -20327. | 2.424 | -129883. |
| MONTHLY SUMMARY (DEC) | | | | | | | | |
| MN | -40796. | 2.424 | -129883. | 0.000 | 149125. | -40796. | 2.424 | -129883. |
| MX | -5946. | 2.424 | -129883. | 0.000 | 158054. | -5946. | 2.424 | -129883. |
| SM | -22490088. | 1803.240 | -96633176. | 0.000 | 111067584. | -22490088. | 1803.240 | -96633176. |
| AV | -30229. | 2.424 | -129883. | 0.000 | 149284. | -30229. | 2.424 | -129883. |
| YEARLY SUMMARY | | | | | | | | |
| MN | -61481. | 2.424 | -129883. | 0.000 | 134542. | -61481. | 2.424 | -129883. |
| MX | 0. | 2.424 | 0. | 6.284 | 184054. | 0. | 2.424 | 0. |
| SM | -164253760. | 21231.699 | -614088192. | 4085.357 | 1325424640. | -164253760. | 21231.699 | -614088192. |
| AV | -18750. | 2.424 | -70101. | 0.466 | 151304. | -18750. | 2.424 | -70101. |

| MMDDHH | AHU-2 | AHU-2 | AHU-3 | AHU-3 | AHU-3 | AHU-3 | AHU-3 | AHU-4 |
|-----------------------|---------------------------|-------------------------------|-------------------------------|--------------------------|-------------------------------|---------------------------|-------------------------------|-------------------------------|
| | COOLING ELECTRIC KW | COOLING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | HEATING CAPACITY BTU/HR | COOLING ELECTRIC KW | COOLING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR |
| | ----(47) | ----(70) | ----(5) | ----(49) | ----(78) | ----(47) | ----(70) | ----(5) |
| MONTHLY SUMMARY (JAN) | | | | | | | | |
| MN | 0.000 | 149125. | -69297. | 3.897 | -208820. | 0.000 | 257595. | -67378. |
| MX | 0.000 | 152850. | -6. | 3.897 | -208820. | 0.000 | 525633. | -6. |
| SM | 0.000 | 110958736. | -25844828. | 2899.156 | -155361760. | 0.000 | 195540880. | -24917418. |
| AV | 0.000 | 149138. | -34738. | 3.897 | -208820. | 0.000 | 262824. | -33491. |
| MONTHLY SUMMARY (FEB) | | | | | | | | |
| MN | 0.000 | 149125. | -74729. | 3.897 | -208820. | 0.000 | 257595. | -71793. |
| MX | 0.000 | 152493. | -3. | 3.897 | -208820. | 0.000 | 358614. | -3. |
| SM | 0.000 | 100237568. | -22257012. | 2618.592 | -140326768. | 0.000 | 175870848. | -21468978. |
| AV | 0.000 | 149163. | -33121. | 3.897 | -208820. | 0.000 | 261713. | -31948. |
| MONTHLY SUMMARY (MAR) | | | | | | | | |
| MN | 0.000 | 145432. | -62854. | 3.897 | -208820. | 0.000 | 257595. | -60786. |
| MX | 0.000 | 161719. | 0. | 3.897 | -208820. | 0.000 | 415220. | 0. |
| SM | 0.000 | 111048552. | -15229221. | 2899.156 | -155361760. | 0.000 | 196881424. | -14665497. |
| AV | 0.000 | 149259. | -20469. | 3.897 | -208820. | 0.000 | 264626. | -19712. |
| MONTHLY SUMMARY (APR) | | | | | | | | |
| MN | 0.000 | 141285. | -49875. | 3.897 | -208820. | 0.000 | 256309. | -48438. |
| MX | 0.000 | 163580. | 0. | 3.897 | -208820. | 0.000 | 408591. | 0. |
| SM | 0.000 | 107746936. | -7219938. | 2805.635 | -150350096. | 0.000 | 194638896. | -7014918. |
| AV | 0.000 | 149649. | -10028. | 3.897 | -208820. | 0.000 | 270332. | -9743. |
| MONTHLY SUMMARY (MAY) | | | | | | | | |
| MN | 0.000 | 136874. | 0. | 3.897 | 0. | 0.000 | 236434. | 0. |
| MX | 0.000 | 166031. | 0. | 3.897 | 0. | 12.231 | 390841. | 0. |
| SM | 0.000 | 111583248. | 0. | 2899.156 | 0. | 1534.989 | 197299200. | 0. |
| AV | 0.000 | 149977. | 0. | 3.897 | 0. | 2.063 | 265187. | 0. |
| MONTHLY SUMMARY (JUN) | | | | | | | | |
| MN | 0.000 | 134840. | 0. | 3.897 | 0. | 0.000 | 234673. | 0. |
| MX | 4.136 | 181392. | 0. | 3.897 | 0. | 18.597 | 348417. | 0. |
| SM | 131.521 | 111569680. | 0. | 2805.635 | 0. | 3766.110 | 189826640. | 0. |
| AV | 0.183 | 154958. | 0. | 3.897 | 0. | 5.231 | 263648. | 0. |
| MONTHLY SUMMARY (JUL) | | | | | | | | |
| MN | 0.000 | 134542. | 0. | 3.897 | 0. | 0.000 | 240124. | 0. |
| MX | 5.260 | 184054. | 0. | 3.897 | 0. | 18.404 | 360578. | 0. |
| SM | 738.248 | 117411136. | 0. | 2899.156 | 0. | 4829.380 | 194427312. | 0. |
| AV | 0.992 | 157811. | 0. | 3.897 | 0. | 6.491 | 261327. | 0. |

| MMDDHH | AHU-4 | AHU-4 | AHU-4 | AHU-4 | AHU-5 | AHU-5 | AHU-5 | AHU-5 |
|-----------------------|--------------------------|-------------------------------|---------------------------|-------------------------------|-------------------------------|--------------------------|-------------------------------|---------------------------|
| | SUPPLY ELECTRIC KW | HEATING CAPACITY BTU/HR | COOLING ELECTRIC KW | COOLING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | HEATING CAPACITY BTU/HR | COOLING ELECTRIC KW |
| | ----(49) | ----(78) | ----(47) | ----(70) | ----(5) | ----(49) | ----(78) | ----(47) |
| MONTHLY SUMMARY (JAN) | | | | | | | | |
| MN | 3.744 | -200643. | 0.000 | 247750. | -128699. | 7.435 | -398455. | 0.000 |
| MX | 3.744 | -200643. | 0.000 | 504335. | -5. | 7.435 | -398455. | 0.000 |
| SM | 2785.634 | -149278352. | 0.000 | 188034464. | -45404916. | 5531.971 | -296450816. | 0.000 |
| AV | 3.744 | -200643. | 0.000 | 252735. | -61028. | 7.435 | -398455. | 0.000 |
| MONTHLY SUMMARY (FEB) | | | | | | | | |
| MN | 3.744 | -200643. | 0.000 | 247750. | -139365. | 7.435 | -398455. | 0.000 |
| MX | 3.744 | -200643. | 0.000 | 344337. | -2. | 7.435 | -398455. | 0.000 |
| SM | 2516.056 | -134832080. | 0.000 | 169124048. | -39164556. | 4996.619 | -267762000. | 0.000 |
| AV | 3.744 | -200643. | 0.000 | 251673. | -58281. | 7.435 | -398455. | 0.000 |
| MONTHLY SUMMARY (MAR) | | | | | | | | |
| MN | 3.744 | -200643. | 0.000 | 247750. | -116253. | 7.435 | -398455. | 0.000 |
| MX | 3.744 | -200643. | 0.000 | 398546. | 0. | 7.435 | -398455. | 0.000 |
| SM | 2785.634 | -149278352. | 0.000 | 189326160. | -26004134. | 5531.971 | -296450816. | 0.000 |
| AV | 3.744 | -200643. | 0.000 | 254471. | -34952. | 7.435 | -398455. | 0.000 |
| MONTHLY SUMMARY (APR) | | | | | | | | |
| MN | 3.744 | -200643. | 0.000 | 246513. | -91589. | 7.435 | -398455. | 0.000 |
| MX | 3.744 | -200643. | 0.000 | 392202. | 0. | 7.435 | -398455. | 0.000 |
| SM | 2695.775 | -144462928. | 0.000 | 187155520. | -11894196. | 5353.521 | -286887872. | 0.000 |
| AV | 3.744 | -200643. | 0.000 | 259938. | -16520. | 7.435 | -398455. | 0.000 |
| MONTHLY SUMMARY (MAY) | | | | | | | | |
| MN | 3.744 | 0. | 0.000 | 227398. | 0. | 7.435 | 0. | 0.000 |
| MX | 3.744 | 0. | 11.772 | 375376. | 0. | 7.435 | 0. | 28.702 |
| SM | 2785.634 | 0. | 1473.378 | 189742960. | 0. | 5531.971 | 0. | 3119.360 |
| AV | 3.744 | 0. | 1.980 | 255031. | 0. | 7.435 | 0. | 4.193 |
| MONTHLY SUMMARY (JUN) | | | | | | | | |
| MN | 3.744 | 0. | 0.000 | 225729. | 0. | 7.435 | 0. | 0.000 |
| MX | 3.744 | 0. | 17.935 | 334769. | 0. | 7.435 | 0. | 36.651 |
| SM | 2695.775 | 0. | 3630.229 | 182575488. | 0. | 5353.521 | 0. | 7407.872 |
| AV | 3.744 | 0. | 5.042 | 253577. | 0. | 7.435 | 0. | 10.289 |
| MONTHLY SUMMARY (JUL) | | | | | | | | |
| MN | 3.744 | 0. | 0.000 | 230960. | 0. | 7.435 | 0. | 0.000 |
| MX | 3.744 | 0. | 17.787 | 346390. | 0. | 7.435 | 0. | 36.252 |
| SM | 2785.634 | 0. | 4669.642 | 187002080. | 0. | 5531.971 | 0. | 9439.436 |
| AV | 3.744 | 0. | 6.276 | 251347. | 0. | 7.435 | 0. | 12.687 |

| | AHU-4 | AHU-4 | AHU-4 | AHU-4 | AHU-5 | AHU-5 | AHU-5 | AHU-5 |
|-----------------------|--------------------------|-------------------------------|---------------------------|-------------------------------|-------------------------------|--------------------------|-------------------------------|---------------------------|
| | SUPPLY ELECTRIC KW | HEATING CAPACITY BTU/HR | COOLING ELECTRIC KW | COOLING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | HEATING CAPACITY BTU/HR | COOLING ELECTRIC KW |
| | ----(49) | ----(78) | ----(47) | ----(70) | ----(5) | ----(49) | ----(78) | ----(47) |
| MONTHLY SUMMARY (AUG) | | | | | | | | |
| MN | 3.744 | 0. | 0.000 | 230267. | 0. | 7.435 | 0. | 0.000 |
| MX | 3.744 | 0. | 17.608 | 334015. | 0. | 7.435 | 0. | 35.876 |
| SM | 2785.634 | 0. | 4487.641 | 188350336. | 0. | 5531.971 | 0. | 9112.055 |
| AV | 3.744 | 0. | 6.032 | 253159. | 0. | 7.435 | 0. | 12.247 |
| MONTHLY SUMMARY (SEP) | | | | | | | | |
| MN | 3.744 | 0. | 0.000 | 227412. | 0. | 7.435 | 0. | 0.000 |
| MX | 3.744 | 0. | 15.786 | 367074. | 0. | 7.435 | 0. | 32.153 |
| SM | 2695.775 | 0. | 2685.555 | 183264848. | 0. | 5353.521 | 0. | 5493.534 |
| AV | 3.744 | 0. | 3.730 | 254535. | 0. | 7.435 | 0. | 7.630 |
| MONTHLY SUMMARY (OCT) | | | | | | | | |
| MN | 3.744 | -200643. | 0.000 | 234417. | -194851. | 7.435 | -398455. | 0.000 |
| MX | 3.744 | 0. | 11.458 | 340748. | 0. | 7.435 | 0. | 23.802 |
| SM | 2785.634 | -77046904. | 2497.934 | 188977360. | -27386808. | 5531.971 | -153006864. | 5171.024 |
| AV | 3.744 | -103558. | 3.357 | 254002. | -36810. | 7.435 | -205654. | 6.950 |
| MONTHLY SUMMARY (NOV) | | | | | | | | |
| MN | 3.744 | -200643. | 0.000 | 247750. | -104603. | 7.435 | -398455. | 0.000 |
| MX | 3.744 | -200643. | 0.000 | 355036. | 0. | 7.435 | -398455. | 0.000 |
| SM | 2695.775 | -144462928. | 0.000 | 186265520. | -22957328. | 5353.521 | -286887872. | 0.000 |
| AV | 3.744 | -200643. | 0.000 | 258702. | -31885. | 7.435 | -398455. | 0.000 |
| MONTHLY SUMMARY (DEC) | | | | | | | | |
| MN | 3.744 | -200643. | 0.000 | 247750. | -108963. | 7.435 | -398455. | 0.000 |
| MX | 3.744 | -200643. | 0.000 | 347541. | -3. | 7.435 | -398455. | 0.000 |
| SM | 2785.634 | -149278352. | 0.000 | 187942144. | -40597228. | 5531.971 | -296450816. | 0.000 |
| AV | 3.744 | -200643. | 0.000 | 252610. | -54566. | 7.435 | -398455. | 0.000 |
| YEARLY SUMMARY | | | | | | | | |
| MN | 3.744 | -200643. | 0.000 | 225729. | -194851. | 7.435 | -398455. | 0.000 |
| MX | 3.744 | 0. | 17.935 | 504335. | 0. | 7.435 | 0. | 36.651 |
| SM | 32798.594 | -948639872. | 19444.377 | 2227761152. | -213409184. | 65134.504 | -1883897088. | 39743.281 |
| AV | 3.744 | -108292. | 2.220 | 254311. | -24362. | 7.435 | -215057. | 4.537 |

| MMDDHH | AHU-5 | AHU-6 | AHU-6 | AHU-6 | AHU-6 | AHU-6 | AHU-7 | AHU-7 |
|-----------------------|-------------------------------|-------------------------------|--------------------------|-------------------------------|---------------------------|-------------------------------|-------------------------------|--------------------------|
| | COOLING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | HEATING CAPACITY BTU/HR | COOLING ELECTRIC KW | COOLING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR | SUPPLY ELECTRIC KW |
| | ---- (70) | ---- (5) | ---- (49) | ---- (78) | ---- (47) | ---- (70) | ---- (5) | ---- (49) |
| MONTHLY SUMMARY (JAN) | | | | | | | | |
| MN | 492026. | -145873. | 8.286 | -444056. | 0.000 | 544445. | -244791. | 11.948 |
| MX | 1001767. | -5. | 8.286 | -444056. | 0.000 | 1108185. | -22872. | 11.948 |
| SM | 373537376. | -53775696. | 6165.075 | -330377696. | 0.000 | 413257152. | -111348536. | 8889.582 |
| AV | 502066. | -72279. | 8.286 | -444056. | 0.000 | 555453. | -149662. | 11.948 |
| MONTHLY SUMMARY (FEB) | | | | | | | | |
| MN | 492026. | -152659. | 8.286 | -444056. | 0.000 | 544445. | -251121. | 11.948 |
| MX | 684058. | -2. | 8.286 | -444056. | 0.000 | 756698. | -6. | 11.948 |
| SM | 336022336. | -45229616. | 5568.454 | -298405664. | 0.000 | 371764768. | -94134304. | 8029.300 |
| AV | 500033. | -67306. | 8.286 | -444056. | 0.000 | 553221. | -140081. | 11.948 |
| MONTHLY SUMMARY (MAR) | | | | | | | | |
| MN | 492026. | -129612. | 8.286 | -444056. | 0.000 | 544445. | -210949. | 11.948 |
| MX | 791780. | 0. | 8.286 | -444056. | 0.000 | 875886. | -1. | 11.948 |
| SM | 376314368. | -29845776. | 6165.075 | -330377696. | 0.000 | 416361632. | -74290696. | 8889.582 |
| AV | 505799. | -40115. | 8.286 | -444056. | 0.000 | 559626. | -99853. | 11.948 |
| MONTHLY SUMMARY (APR) | | | | | | | | |
| MN | 489569. | -104389. | 8.286 | -444056. | 0.000 | 541726. | -184174. | 11.948 |
| MX | 779743. | 0. | 8.286 | -444056. | 0.000 | 862135. | 0. | 11.948 |
| SM | 372497408. | -13368590. | 5966.201 | -319720352. | 0.000 | 412201376. | -43852960. | 8602.821 |
| AV | 517358. | -18567. | 8.286 | -444056. | 0.000 | 572502. | -60907. | 11.948 |
| MONTHLY SUMMARY (MAY) | | | | | | | | |
| MN | 451607. | 0. | 8.286 | 0. | 0.000 | 499719. | 0. | 11.948 |
| MX | 745542. | 0. | 8.286 | 0. | 32.164 | 824856. | 0. | 11.948 |
| SM | 376460160. | 0. | 6165.075 | 0. | 3630.430 | 416400224. | 0. | 8889.582 |
| AV | 505995. | 0. | 8.286 | 0. | 4.880 | 559678. | 0. | 11.948 |
| MONTHLY SUMMARY (JUN) | | | | | | | | |
| MN | 448351. | 0. | 8.286 | 0. | 0.000 | 495446. | 0. | 11.948 |
| MX | 658452. | 0. | 8.286 | 0. | 40.737 | 775590. | 0. | 11.948 |
| SM | 362235456. | 0. | 5966.201 | 0. | 8536.124 | 400706432. | 0. | 8602.821 |
| AV | 503105. | 0. | 8.286 | 0. | 11.856 | 556537. | 0. | 11.948 |
| MONTHLY SUMMARY (JUL) | | | | | | | | |
| MN | 458369. | 0. | 8.286 | 0. | 0.000 | 505346. | 0. | 11.948 |
| MX | 687963. | 0. | 8.286 | 0. | 40.427 | 761152. | 0. | 11.948 |
| SM | 371284864. | 0. | 6165.075 | 0. | 10767.900 | 409904544. | 0. | 8889.582 |
| AV | 499039. | 0. | 8.286 | 0. | 14.473 | 550947. | 0. | 11.948 |

| | AHU-5 | AHU-6 | AHU-6 | AHU-6 | AHU-6 | AHU-6 | AHU-7 | AHU-7 |
|-----------------------|-------------------------------|-------------------------------|--------------------------|-------------------------------|---------------------------|-------------------------------|-------------------------------|--------------------------|
| | COOLING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | HEATING CAPACITY BTU/HR | COOLING ELECTRIC KW | COOLING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR | SUPPLY ELECTRIC KW |
| | ----(70) | ----(5) | ----(49) | ----(78) | ----(47) | ----(70) | ----(5) | ----(49) |
| MONTHLY SUMMARY (AUG) | | | | | | | | |
| MN | 457050. | 0. | 8.286 | 0. | 0.000 | 504320. | 0. | 11.948 |
| MX | 663421. | 0. | 8.286 | 0. | 40.056 | 733648. | 0. | 11.948 |
| SM | 373994432. | 0. | 6165.075 | 0. | 10258.932 | 413032960. | 0. | 8889.582 |
| AV | 502681. | 0. | 8.286 | 0. | 13.789 | 555152. | 0. | 11.948 |
| MONTHLY SUMMARY (SEP) | | | | | | | | |
| MN | 451506. | 0. | 8.286 | 0. | 0.000 | 498903. | 0. | 11.948 |
| MX | 729023. | 0. | 8.286 | 0. | 36.058 | 806504. | 0. | 11.948 |
| SM | 363840448. | 0. | 5966.201 | 0. | 6160.016 | 402057152. | 0. | 8602.821 |
| AV | 505334. | 0. | 8.286 | 0. | 8.556 | 558413. | 0. | 11.948 |
| MONTHLY SUMMARY (OCT) | | | | | | | | |
| MN | 465547. | -220714. | 8.286 | -444056. | 0.000 | 515145. | -374132. | 11.948 |
| MX | 676902. | 0. | 8.286 | 0. | 26.186 | 748676. | 0. | 11.948 |
| SM | 375190784. | -30827436. | 6165.075 | -170517520. | 5722.403 | 415046400. | -52938428. | 8889.582 |
| AV | 504289. | -41435. | 8.286 | -229190. | 7.691 | 557858. | -71154. | 11.948 |
| MONTHLY SUMMARY (NOV) | | | | | | | | |
| MN | 492026. | -117833. | 8.286 | -444056. | 0.000 | 544445. | -181343. | 11.948 |
| MX | 706729. | 0. | 8.286 | -444056. | 0.000 | 780944. | 0. | 11.948 |
| SM | 370356832. | -27846774. | 5966.201 | -319720352. | 0.000 | 409590496. | -67637808. | 8602.821 |
| AV | 514385. | -38676. | 8.286 | -444056. | 0.000 | 568876. | -93941. | 11.948 |
| MONTHLY SUMMARY (DEC) | | | | | | | | |
| MN | 492026. | -125700. | 8.286 | -444056. | 0.000 | 544445. | -210216. | 11.948 |
| MX | 691068. | -3. | 8.286 | -444056. | 0.000 | 763992. | -4154. | 11.948 |
| SM | 373422432. | -48595160. | 6165.075 | -330377696. | 0.000 | 413088000. | -102711912. | 8889.582 |
| AV | 501912. | -65316. | 8.286 | -444056. | 0.000 | 555226. | -138054. | 11.948 |
| YEARLY SUMMARY | | | | | | | | |
| MN | 448351. | -220714. | 8.286 | -444056. | 0.000 | 495446. | -374132. | 11.948 |
| MX | 1001767. | 0. | 8.286 | 0. | 40.737 | 1108185. | 0. | 11.948 |
| SM | 4425156608. | -249489056. | 72588.781 | -2099496960. | 45075.801 | 4893411328. | -546914688. | 104667.656 |
| AV | 505155. | -28480. | 8.286 | -239669. | 5.146 | 558609. | -62433. | 11.948 |

| MMDDHH | AHU-7 | AHU-7 | AHU-7 |
|-----------------------|-------------------------------|---------------------------|-------------------------------|
| | HEATING CAPACITY BTU/HR | COOLING ELECTRIC KW | COOLING CAPACITY BTU/HR |
| | ----(78) | ----(47) | ----(70) |
| MONTHLY SUMMARY (JAN) | | | |
| MN | -640296. | 0.000 | 757338. |
| MX | -640296. | 0.000 | 1620807. |
| SM | -476380256. | 0.000 | 576819968. |
| AV | -640296. | 0.000 | 775296. |
| MONTHLY SUMMARY (FEB) | | | |
| MN | -640296. | 0.000 | 757338. |
| MX | -640296. | 0.000 | 1089389. |
| SM | -430278944. | 0.000 | 518337184. |
| AV | -640296. | 0.000 | 771335. |
| MONTHLY SUMMARY (MAR) | | | |
| MN | -640296. | 0.000 | 757338. |
| MX | -640296. | 0.000 | 1269877. |
| SM | -476380256. | 0.000 | 580076736. |
| AV | -640296. | 0.000 | 779673. |
| MONTHLY SUMMARY (APR) | | | |
| MN | -640296. | 0.000 | 753557. |
| MX | -640296. | 0.000 | 1248999. |
| SM | -461013152. | 0.000 | 572119808. |
| AV | -640296. | 0.000 | 794611. |
| MONTHLY SUMMARY (MAY) | | | |
| MN | 0. | 0.000 | 695124. |
| MX | 0. | 29.551 | 1196021. |
| SM | 0. | 3071.270 | 580649088. |
| AV | 0. | 4.128 | 780442. |
| MONTHLY SUMMARY (JUN) | | | |
| MN | 0. | 0.000 | 687971. |
| MX | 0. | 46.070 | 1044855. |
| SM | 0. | 9231.158 | 557053824. |
| AV | 0. | 12.821 | 773686. |
| MONTHLY SUMMARY (JUL) | | | |
| MN | 0. | 0.000 | 698384. |
| MX | 0. | 46.674 | 1086057. |
| SM | 0. | 12174.275 | 568534784. |
| AV | 0. | 16.363 | 764160. |

| | AHU-7 | AHU-7 | AHU-7 |
|-----------------------|-------------------------------|---------------------------|-------------------------------|
| | HEATING CAPACITY BTU/HR | COOLING ELECTRIC KW | COOLING CAPACITY BTU/HR |
| | ---- (78) | ---- (47) | ---- (70) |
| MONTHLY SUMMARY (AUG) | | | |
| MN | 0. | 0.000 | 699105. |
| MX | 0. | 45.459 | 1045534. |
| SM | 0. | 11279.715 | 573426048. |
| AV | 0. | 15.161 | 770734. |
| MONTHLY SUMMARY (SEP) | | | |
| MN | 0. | 0.000 | 693453. |
| MX | 0. | 42.270 | 1157466. |
| SM | 0. | 6325.678 | 560212736. |
| AV | 0. | 8.786 | 778073. |
| MONTHLY SUMMARY (OCT) | | | |
| MN | -640296. | 0.000 | 716581. |
| MX | 0. | 28.883 | 1068438. |
| SM | -245873680. | 5954.146 | 578085056. |
| AV | -330475. | 8.003 | 776996. |
| MONTHLY SUMMARY (NOV) | | | |
| MN | -640296. | 0.000 | 757338. |
| MX | -640296. | 0.000 | 1116284. |
| SM | -461013152. | 0.000 | 569672704. |
| AV | -640296. | 0.000 | 791212. |
| MONTHLY SUMMARY (DEC) | | | |
| MN | -640296. | 0.000 | 757338. |
| MX | -640296. | 0.000 | 1097552. |
| SM | -476380256. | 0.000 | 576262016. |
| AV | -640296. | 0.000 | 774546. |
| YEARLY SUMMARY | | | |
| MN | -640296. | 0.000 | 687971. |
| MX | 0. | 46.674 | 1620807. |
| SM | -3027319552. | 48036.238 | 6811249664. |
| AV | -345584. | 5.484 | 777540. |

ENTTECH ENGINEERING
READING, PA 19603
REPORT- PV-A EQUIPMENT SIZES

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
FT. GEORGE G. MEADE

DOE-2.1D 6/ 5/1996 15:10:30 PDL RUN 1
EMCS STUDY
WEATHER FILE- BALTIMORE, MD

| EQUIPMENT | NUMBER | | NUMBER | | NUMBER | | NUMBER | | NUMBER | |
|-----------|---------------|-------------|---------------|-------------|---------------|-------------|---------------|-------------|---------------|-------------|
| | SIZE (MBTU/H) | INSTD AVAIL | SIZE (MBTU/H) | INSTD AVAIL | SIZE (MBTU/H) | INSTD AVAIL | SIZE (MBTU/H) | INSTD AVAIL | SIZE (MBTU/H) | INSTD AVAIL |
| HW-BOILER | 2.500 | 1 1 | 2.500 | 1 1 | | | | | | |

| MONTH | S I T E E N E R G Y | | | | | | | | | | | | SOURCE |
|-------|-----------------------|--------------------------|-------------------------|------------------|-----------------------------|--------------------------|--------------------------|--------------------------|--------------------------|------------------------|------------------------|-------------------------|---------------------------|
| | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | |
| | TOTAL HEAT LOAD | TOTAL COOLING LOAD | TOTAL ELECTR LOAD | RCVRED ENERGY | WASTED RCVRABL ENERGY | FUEL INPUT COOLING | ELEC INPUT COOLING | FUEL INPUT HEATING | ELEC INPUT HEATING | FUEL INPUT ELECT | TOTAL FUEL INPUT | TOTAL SITE ENERGY | TOTAL SOURCE ENERGY |
| JAN | 344.2 | 0.0 | 342.8 100.4E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 559.1 | 42.3 12.4E | 0.0 | 559.1 | 901.9 | 1588.6 |
| FEB | 303.1 | 0.0 | 309.0 90.5E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 491.3 | 37.3 10.9E | 0.0 | 491.3 | 800.3 | 1419.3 |
| MAR | 247.9 | 0.0 | 350.3 102.6E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 405.0 | 34.4 10.1E | 0.0 | 405.0 | 755.2 | 1456.9 |
| APR | 165.1 | 0.0 | 322.8 94.5E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 269.7 | 26.8 7.8E | 0.0 | 269.7 | 592.5 | 1239.2 |
| MAY | 0.0 | 0.0 | 344.4 100.9E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 0.0 | 0.0 0.0E | 0.0 | 0.0 | 344.4 | 1034.2 |
| JUN | 0.0 | 0.0 | 415.8 121.8E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 0.0 | 0.0 0.0E | 0.0 | 0.0 | 415.8 | 1248.7 |
| JUL | 0.0 | 0.0 | 441.0 129.1E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 0.0 | 0.0 0.0E | 0.0 | 0.0 | 441.0 | 1324.2 |
| AUG | 0.0 | 0.0 | 460.0 134.7E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 0.0 | 0.0 0.0E | 0.0 | 0.0 | 460.0 | 1381.5 |
| SEP | 0.0 | 0.0 | 381.4 111.7E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 0.0 | 0.0 0.0E | 0.0 | 0.0 | 381.4 | 1145.5 |
| OCT | 174.4 | 0.0 | 397.5 116.4E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 284.0 | 21.7 6.4E | 0.0 | 284.0 | 681.5 | 1477.8 |
| NOV | 199.4 | 0.0 | 318.2 93.2E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 325.8 | 29.8 8.7E | 0.0 | 325.8 | 644.0 | 1281.3 |
| DEC | 308.6 | 0.0 | 340.3 99.7E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 504.1 | 39.8 11.6E | 0.0 | 504.1 | 844.4 | 1526.1 |
| | 1742.6 | 0.0 | 4423.7 1295.6E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 2839.0 | 232.0 67.9E | 0.0 | 2839.0 | 7262.6 | 16123.2 |

NOTE-- ALL ENTRIES ARE IN MBTU EXCEPT
 ENTRIES FOLLOWED BY E ARE IN MWH (THOUSANDS OF KWH)

ENTECH ENGINEERING
 READING, PA 19603
 REPORT- PS-B MONTHLY PEAK AND TOTAL ENERGY USE

BZDOE - ELITE SOFTWARE DEVELOPMENT INC
 FT. GEORGE G. MEADE
 ENERGY USE

DOE-2.1D 6/ 5/1996 15:10:30 PDL RUN 1
 EMCS STUDY WEATHER FILE- BALTIMORE, MD

| MO | UTILITY- | ELECTRICITY | NATURAL-GAS |
|-----|--------------|-------------|-------------|
| | TOTAL (MBTU) | 342.829 | 559.092 |
| JAN | PEAK (KBTU) | 1022.384 | 1208.539 |
| | DY/HR | 17/ 8 | 16/21 |
| | TOTAL (MBTU) | 309.037 | 491.302 |
| FEB | PEAK (KBTU) | 1019.808 | 1250.912 |
| | DY/HR | 4/ 8 | 12/13 |
| | TOTAL (MBTU) | 350.291 | 404.957 |
| MAR | PEAK (KBTU) | 1008.026 | 1121.972 |
| | DY/HR | 4/ 8 | 5/ 8 |
| | TOTAL (MBTU) | 322.820 | 269.727 |
| APR | PEAK (KBTU) | 1000.491 | 986.455 |
| | DY/HR | 8/ 8 | 9/ 8 |
| | TOTAL (MBTU) | 344.377 | 0.000 |
| MAY | PEAK (KBTU) | 1315.245 | 0.000 |
| | DY/HR | 6/16 | 31/ 1 |
| | TOTAL (MBTU) | 415.817 | 0.000 |
| JUN | PEAK (KBTU) | 1526.181 | 0.000 |
| | DY/HR | 10/16 | 30/ 1 |
| | TOTAL (MBTU) | 440.963 | 0.000 |
| JUL | PEAK (KBTU) | 1532.838 | 0.000 |
| | DY/HR | 25/16 | 31/ 1 |
| | TOTAL (MBTU) | 460.036 | 0.000 |
| AUG | PEAK (KBTU) | 1531.967 | 0.000 |
| | DY/HR | 18/16 | 31/ 1 |
| | TOTAL (MBTU) | 381.444 | 0.000 |
| SEP | PEAK (KBTU) | 1482.447 | 0.000 |
| | DY/HR | 1/16 | 30/ 1 |
| | TOTAL (MBTU) | 397.521 | 284.015 |
| OCT | PEAK (KBTU) | 1370.197 | 1642.267 |
| | DY/HR | 18/16 | 16/ 2 |
| | TOTAL (MBTU) | 318.190 | 325.776 |
| NOV | PEAK (KBTU) | 1001.558 | 1001.703 |
| | DY/HR | 25/ 8 | 25/ 7 |
| | TOTAL (MBTU) | 340.343 | 504.092 |
| DEC | PEAK (KBTU) | 1009.748 | 1072.836 |
| | DY/HR | 6/ 8 | 22/ 3 |
| | ONE YEAR | 4423.668 | 2838.961 |
| | USE/PEAK | 1532.838 | 1642.267 |

ENTECH ENGINEERING
READING, PA 19603
REPORT- PS-D PLANT LOADS SATISFIED

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
FT. GEORGE G. MRADE

DOE-2.1D 6/ 5/1996 15:10:30 PDL RUN 1
EMCS STUDY
WEATHER FILE- BALTIMORE, MD

| HEATING LOADS | MBTU SUPPLIED | PCT OF TOTAL LOAD |
|---------------------|---------------|-------------------|
| ----- | ----- | ----- |
| HW-BOILER | 1742.6 | 100.0 |
| | ----- | ----- |
| LOAD SATISFIED | 1742.6 | 100.0 |
| TOTAL LOAD ON PLANT | 1742.6 | |

| ELECTRICAL LOADS | MBTU SUPPLIED | PCT OF TOTAL LOAD |
|---------------------|---------------|-------------------|
| ----- | ----- | ----- |
| ELECTRICITY | 4423.7 | 100.0 |
| | ----- | ----- |
| LOAD SATISFIED | 4423.7 | 100.0 |
| TOTAL LOAD ON PLANT | 4423.7 | |

EMTECH ENGINEERING
READING, PA 19603
REPORT- PS-D PLANT LOADS SATISFIED

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
FT. GEORGE G. MEADE

DOE-2.1D 6/ 5/1996 15:10:30 PDL RUN 1
EMCS STUDY

WEATHER FILE- BALTIMORE, MD

----- (CONTINUED) -----

SUMMARY OF LOADS MET

| TYPE OF LOAD | TOTAL LOAD (MBTU) | LOAD SATISFIED (MBTU) | TOTAL OVERLOAD (MBTU) | PEAK OVERLOAD (MBTU) | HOURS OVERLOADED |
|------------------|-------------------------|-----------------------------|-----------------------------|----------------------------|---------------------|
| HEATING LOADS | 1742.6 | 1742.6 | 0.000 | 0.000 | 0 |
| ELECTRICAL LOADS | 4423.7 | 4423.7 | 0.000 | 0.000 | 0 |

EMTECH ENGINEERING
 READING, PA 19603
 REPORT- PS-H EQUIPMENT USE STATISTICS

BZDOE - ELITE SOFTWARE DEVELOPMENT INC
 FT. GEORGE G. MEADE

DOB-2.1D 6/ 5/1996 15:10:30 PDL RUN 1
 EMCS STUDY WEATHER FILE- BALTIMORE, MD

| EQUIPMENT | AVG | MAX | MON | | SIZE OPER | | SIZE OPER | | SIZE OPER | | SIZE OPER | |
|-----------|-------|--------|-----|----|-----------|-------|-----------|-------|-----------|-----|-----------|-----|
| | OPER | LOAD | DAY | HR | (MBTU) | HRS | (MBTU) | HRS | (MBTU) | HRS | (MBTU) | HRS |
| | RATIO | (MBTU) | | | | | | | | | | |
| HW-BOILER | 0.147 | 1.153 | 10 | 16 | 2 | 2.500 | 4728 | 2.500 | 0 | | | |

ENTECH ENGINEERING
READING, PA 19603
REPORT- PS-1 EQUIPMENT LIFE CYCLE COSTS

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
FT. GEORGE G. MEADE

DOE-2.1D 6/ 5/1996 15:10:30 PDL RUN 1
EMCS STUDY
WEATHER FILE- BALTIMORE, MD

EQUIPMENT TOTALS

| | | | |
|---------------------|-------|-------|-------|
| HW-BOILER | 139.9 | | |
| NOMINAL SIZE (MBTU) | | 2.500 | 2.500 |
| NUMBER INSTALLED | | 1 | 1 |
| FIRST COST (K\$) | 131.1 | 65.5 | 65.5 |
| ANNUAL COST (K\$) | 2.1 | 1.0 | 1.0 |
| CYCLICAL COST (K\$) | 6.8 | 6.8 | 0.0 |
| -----TOTAL----(K\$) | | 73.4 | 66.6 |
| EQUIPMENT TOTAL | 139.9 | | |

| ENERGY TYPE | ELECTRICITY | NATURAL-GAS |
|-----------------|-------------|-------------|
| IN SITE MBTU - | | |
| CATEGORY OF USE | | |
| SPACE HEAT | 151.62 | 2838.96 |
| SPACE COOL | 616.41 | 0.00 |
| HVAC AUX | 1281.45 | 0.00 |
| DOM HOT WTR | 0.00 | 0.00 |
| AUX SOLAR | 0.00 | 0.00 |
| LIGHTS | 1721.76 | 0.00 |
| VERT TRANS | 0.00 | 0.00 |
| MISC EQUIP | 652.34 | 0.00 |
| TOTAL | 4423.59 | 2838.96 |

TOTAL SITE ENERGY 7262.63 MBTU 83.9 KBTU/SQFT-YR GROSS-AREA 83.9 KBTU/SQFT-YR NET-AREA
 TOTAL SOURCE ENERGY 16123.25 MBTU 186.2 KBTU/SQFT-YR GROSS-AREA 186.2 KBTU/SQFT-YR NET-AREA

PERCENT OF HOURS ANY SYSTEM ZONE OUTSIDE OF THROTTLING RANGE = 34.5
 PERCENT OF HOURS ANY PLANT LOAD NOT SATISFIED = 0.0

NOTE ELECTRICITY AND/OR FUEL USED TO GENERATE ELECTRICITY IS APPORTIONED BASED
 ON THE YEARLY DEMAND. ALL OTHER ENERGY TYPES ARE APPORTIONED HOURLY.

| MMDHH | HW-BOILE R LOAD BTU/HR | HW-BOILE R ELECTRIC USE BTU/HR | HW-BOILE R FUEL USE BTU/HR |
|-----------------------|---------------------------------|--------------------------------------------|----------------------------------------|
| | ---- (1) | ---- (3) | ---- (4) |
| MONTHLY SUMMARY (JAN) | | | |
| MN | 91378. | 8041. | 149325. |
| MX | 782297. | 55000. | 1208539. |
| SM | 344219648. | 29611900. | 559092032. |
| AV | 462661. | 39801. | 751468. |
| MONTHLY SUMMARY (FEB) | | | |
| MN | 80235. | 7061. | 131116. |
| MX | 818132. | 55000. | 1250912. |
| SM | 303069920. | 25883958. | 491302368. |
| AV | 450997. | 38518. | 731105. |
| MONTHLY SUMMARY (MAR) | | | |
| MN | 74031. | 6515. | 120977. |
| MX | 709354. | 55000. | 1121972. |
| SM | 247940000. | 21776368. | 404957152. |
| AV | 333253. | 29269. | 544297. |
| MONTHLY SUMMARY (APR) | | | |
| MN | 63713. | 5607. | 104117. |
| MX | 603654. | 53122. | 986455. |
| SM | 165057376. | 14525047. | 269726752. |
| AV | 229246. | 20174. | 374621. |
| MONTHLY SUMMARY (MAY) | | | |
| MN | 0. | 0. | 0. |
| MX | 0. | 0. | 0. |
| SM | 0. | 0. | 0. |
| AV | 0. | 0. | 0. |
| MONTHLY SUMMARY (JUN) | | | |
| MN | 0. | 0. | 0. |
| MX | 0. | 0. | 0. |
| SM | 0. | 0. | 0. |
| AV | 0. | 0. | 0. |
| MONTHLY SUMMARY (JUL) | | | |
| MN | 0. | 0. | 0. |
| MX | 0. | 0. | 0. |
| SM | 0. | 0. | 0. |
| AV | 0. | 0. | 0. |

| | HW-BOILE R LOAD BTU/HR | HW-BOILE R ELECTRIC USE BTU/HR | HW-BOILE R FUEL USE BTU/HR |
|-----------------------|---------------------------------|--------------------------------------------|----------------------------------------|
| | ---- (1) | ---- (3) | ---- (4) |
| MONTHLY SUMMARY (AUG) | | | |
| MN | 0. | 0. | 0. |
| MX | 0. | 0. | 0. |
| SM | 0. | 0. | 0. |
| AV | 0. | 0. | 0. |
| MONTHLY SUMMARY (SEP) | | | |
| MN | 0. | 0. | 0. |
| MX | 0. | 0. | 0. |
| SM | 0. | 0. | 0. |
| AV | 0. | 0. | 0. |
| MONTHLY SUMMARY (OCT) | | | |
| MN | 0. | 0. | 0. |
| MX | 1153275. | 55000. | 1642267. |
| SM | 174378144. | 15160102. | 284014848. |
| AV | 234379. | 20376. | 381740. |
| MONTHLY SUMMARY (NOV) | | | |
| MN | 34714. | 3055. | 56727. |
| MX | 612985. | 53943. | 1001703. |
| SM | 199356192. | 17543346. | 325775936. |
| AV | 276884. | 24366. | 452467. |
| MONTHLY SUMMARY (DEC) | | | |
| MN | 50764. | 4467. | 82955. |
| MX | 668108. | 55000. | 1072836. |
| SM | 308560160. | 27125518. | 504091968. |
| AV | 414731. | 36459. | 677543. |
| YEARLY SUMMARY | | | |
| MN | 0. | 0. | 0. |
| MX | 1153275. | 55000. | 1642267. |
| SM | 1742581376. | 151626240. | 2838960896. |
| AV | 198925. | 17309. | 324082. |

BDDG +552
 SETBACK
 FILE FTM+552N

| ENTECH ENGINEERING READING, PA 19603 H-1 | | | EZDOE - ELITE SOFTWARE DEVELOPMENT INC FT. GEORGE G. MEADE | | | DOE-2.1D 6/7/1996 EMCS STUDY | | 8:49:38 SDL RUN 1 PAGE 1- 1 | |
|------------------------------------------------|-------------------------------|--------------------------|---------------------------------------------------------------|---------------------------|-------------------------------|---------------------------------|--------------------------|--------------------------------|--|
| MMDDHH | AHU-1 | AHU-1 | AHU-1 | AHU-1 | AHU-1 | AHU-2 | AHU-2 | AHU-2 | |
| | TOT HTG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | HEATING CAPACITY BTU/HR | COOLING ELECTRIC KW | COOLING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | HEATING CAPACITY BTU/HR | |
| | ---- (5) | ----(49) | ----(78) | ----(47) | ----(70) | ---- (5) | ----(49) | ----(78) | |
| MONTHLY SUMMARY (JAN) | | | | | | | | | |
| MN | -98794. | 1.819 | -100150. | 0.000 | 112264. | -98794. | 1.819 | -100150. | |
| MX | -26856. | 1.819 | -100150. | 0.000 | 112264. | -26856. | 1.819 | -100150. | |
| SM | -15659449. | 458.451 | -25237706. | 0.000 | 28290524. | -15659449. | 458.451 | -25237706. | |
| AV | -62141. | 1.819 | -100150. | 0.000 | 112264. | -62141. | 1.819 | -100150. | |
| MONTHLY SUMMARY (FEB) | | | | | | | | | |
| MN | -98367. | 1.819 | -100150. | 0.000 | 112264. | -98367. | 1.819 | -100150. | |
| MX | -31720. | 1.819 | -100150. | 0.000 | 112264. | -31720. | 1.819 | -100150. | |
| SM | -16063894. | 414.789 | -22834114. | 0.000 | 25596188. | -16063894. | 414.789 | -22834114. | |
| AV | -70456. | 1.819 | -100150. | 0.000 | 112264. | -70456. | 1.819 | -100150. | |
| MONTHLY SUMMARY (MAR) | | | | | | | | | |
| MN | -96410. | 1.819 | -100150. | 0.000 | 109484. | -96410. | 1.819 | -100150. | |
| MX | -28210. | 1.819 | -100150. | 0.000 | 115554. | -28210. | 1.819 | -100150. | |
| SM | -18141912. | 502.113 | -27641298. | 0.000 | 30978028. | -18141912. | 502.113 | -27641298. | |
| AV | -65732. | 1.819 | -100150. | 0.000 | 112239. | -65732. | 1.819 | -100150. | |
| MONTHLY SUMMARY (APR) | | | | | | | | | |
| MN | -95716. | 1.819 | -100150. | 0.000 | 105515. | -95716. | 1.819 | -100150. | |
| MX | -16304. | 1.819 | -100150. | 0.000 | 118746. | -16304. | 1.819 | -100150. | |
| SM | -13704012. | 458.451 | -25237706. | 0.000 | 28321958. | -13704012. | 458.451 | -25237706. | |
| AV | -54381. | 1.819 | -100150. | 0.000 | 112389. | -54381. | 1.819 | -100150. | |
| MONTHLY SUMMARY (MAY) | | | | | | | | | |
| MN | 0. | 1.819 | 0. | 0.000 | 103042. | 0. | 1.819 | 0. | |
| MX | 0. | 1.819 | 0. | 0.000 | 126508. | 0. | 1.819 | 0. | |
| SM | 0. | 458.451 | 0. | 0.000 | 28568184. | 0. | 458.451 | 0. | |
| AV | 0. | 1.819 | 0. | 0.000 | 113366. | 0. | 1.819 | 0. | |
| MONTHLY SUMMARY (JUN) | | | | | | | | | |
| MN | 0. | 1.819 | 0. | 0.000 | 102519. | 0. | 1.819 | 0. | |
| MX | 0. | 1.819 | 0. | 4.270 | 134095. | 0. | 1.819 | 0. | |
| SM | 0. | 480.282 | 0. | 99.363 | 31035230. | 0. | 480.282 | 0. | |
| AV | 0. | 1.819 | 0. | 0.376 | 117558. | 0. | 1.819 | 0. | |
| MONTHLY SUMMARY (JUL) | | | | | | | | | |
| MN | 0. | 1.819 | 0. | 0.000 | 104622. | 0. | 1.819 | 0. | |
| MX | 0. | 1.819 | 0. | 6.738 | 139979. | 0. | 1.819 | 0. | |
| SM | 0. | 436.620 | 0. | 720.549 | 28368608. | 0. | 436.620 | 0. | |
| AV | 0. | 1.819 | 0. | 3.002 | 118203. | 0. | 1.819 | 0. | |

| | AHU-1 | AHU-1 | AHU-1 | AHU-1 | AHU-1 | AHU-2 | AHU-2 | AHU-2 |
|-----------------------|-------------------------------|--------------------------|-------------------------------|---------------------------|-------------------------------|-------------------------------|--------------------------|-------------------------------|
| | TOT HTG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | HEATING CAPACITY BTU/HR | COOLING ELECTRIC KW | COOLING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | HEATING CAPACITY BTU/HR |
| | ----(5) | ----(49) | ----(78) | ----(47) | ----(70) | ----(5) | ----(49) | ----(78) |
| MONTHLY SUMMARY (AUG) | | | | | | | | |
| MN | 0. | 1.819 | 0. | 0.000 | 106643. | 0. | 1.819 | 0. |
| MX | 0. | 1.819 | 0. | 8.360 | 129796. | 0. | 1.819 | 0. |
| SM | 0. | 502.113 | 0. | 1170.358 | 31891918. | 0. | 502.113 | 0. |
| AV | 0. | 1.819 | 0. | 4.240 | 115550. | 0. | 1.819 | 0. |
| MONTHLY SUMMARY (SEP) | | | | | | | | |
| MN | 0. | 1.819 | 0. | 0.000 | 106563. | 0. | 1.819 | 0. |
| MX | 0. | 1.819 | 0. | 7.797 | 129226. | 0. | 1.819 | 0. |
| SM | 0. | 458.451 | 0. | 742.718 | 28648078. | 0. | 458.451 | 0. |
| AV | 0. | 1.819 | 0. | 2.947 | 113683. | 0. | 1.819 | 0. |
| MONTHLY SUMMARY (OCT) | | | | | | | | |
| MN | -58843. | 1.819 | -100150. | 0.000 | 107843. | -58843. | 1.819 | -100150. |
| MX | 0. | 1.819 | 0. | 5.304 | 119915. | 0. | 1.819 | 0. |
| SM | -1973158. | 436.620 | -13219748. | 501.268 | 27068346. | -1973158. | 436.620 | -13219748. |
| AV | -8221. | 1.819 | -55082. | 2.089 | 112785. | -8221. | 1.819 | -55082. |
| MONTHLY SUMMARY (NOV) | | | | | | | | |
| MN | -83127. | 1.819 | -100150. | 0.000 | 112264. | -83127. | 1.819 | -100150. |
| MX | -13. | 1.819 | -100150. | 0.000 | 134181. | -13. | 1.819 | -100150. |
| SM | -2718370. | 436.620 | -24035910. | 0.000 | 27397674. | -2718370. | 436.620 | -24035910. |
| AV | -11327. | 1.819 | -100150. | 0.000 | 114157. | -11327. | 1.819 | -100150. |
| MONTHLY SUMMARY (DEC) | | | | | | | | |
| MN | -95797. | 1.819 | -100150. | 0.000 | 112264. | -95797. | 1.819 | -100150. |
| MX | -5380. | 1.819 | -100150. | 0.000 | 113907. | -5380. | 1.819 | -100150. |
| SM | -9478138. | 458.451 | -25237706. | 0.000 | 28295804. | -9478138. | 458.451 | -25237706. |
| AV | -37612. | 1.819 | -100150. | 0.000 | 112285. | -37612. | 1.819 | -100150. |
| YEARLY SUMMARY | | | | | | | | |
| MN | -98794. | 1.819 | -100150. | 0.000 | 102519. | -98794. | 1.819 | -100150. |
| MX | 0. | 1.819 | 0. | 8.360 | 139979. | 0. | 1.819 | 0. |
| SM | -77738928. | 5501.409 | -163444192. | 3234.256 | 344460544. | -77738928. | 5501.409 | -163444192. |
| AV | -25707. | 1.819 | -54049. | 1.070 | 113909. | -25707. | 1.819 | -54049. |

| MMDDHH | AHU-2 | AHU-2 | AHU-3 | AHU-3 | AHU-3 | AHU-3 | AHU-3 | AHU-4 |
|-----------------------|---------------------------|-------------------------------|-------------------------------|--------------------------|-------------------------------|---------------------------|-------------------------------|-------------------------------|
| | COOLING ELECTRIC KW | COOLING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | HEATING CAPACITY BTU/HR | COOLING ELECTRIC KW | COOLING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR |
| | ----(47) | ----(70) | ----(5) | ----(49) | ----(78) | ----(47) | ----(70) | ----(5) |
| MONTHLY SUMMARY (JAN) | | | | | | | | |
| MN | 0.000 | 112264. | -182275. | 3.527 | -194161. | 0.000 | 234782. | -177133. |
| MX | 0.000 | 112264. | -20. | 3.527 | -194161. | 0.000 | 234782. | -20. |
| SM | 0.000 | 28290524. | -12676588. | 888.803 | -48928576. | 0.000 | 59164984. | -12248495. |
| AV | 0.000 | 112264. | -50304. | 3.527 | -194161. | 0.000 | 234782. | -48605. |
| MONTHLY SUMMARY (FEB) | | | | | | | | |
| MN | 0.000 | 112264. | -180963. | 3.527 | -194161. | 0.000 | 234782. | -175858. |
| MX | 0.000 | 112264. | -17. | 3.527 | -194161. | 0.000 | 242958. | -17. |
| SM | 0.000 | 25596188. | -9348848. | 804.155 | -44268712. | 0.000 | 53568996. | -9060608. |
| AV | 0.000 | 112264. | -41004. | 3.527 | -194161. | 0.000 | 234952. | -39740. |
| MONTHLY SUMMARY (MAR) | | | | | | | | |
| MN | 0.000 | 109484. | -172381. | 3.527 | -194161. | 0.000 | 230121. | -166317. |
| MX | 0.000 | 115554. | -9. | 3.527 | -194161. | 0.000 | 248268. | -9. |
| SM | 0.000 | 30978028. | -3975211. | 973.451 | -53588440. | 0.000 | 64878796. | -3852491. |
| AV | 0.000 | 112239. | -14403. | 3.527 | -194161. | 0.000 | 235068. | -13958. |
| MONTHLY SUMMARY (APR) | | | | | | | | |
| MN | 0.000 | 105515. | -85957. | 3.527 | -194161. | 0.000 | 232442. | -84017. |
| MX | 0.000 | 118746. | 0. | 3.527 | -194161. | 0.000 | 272631. | 0. |
| SM | 0.000 | 28321958. | -555214. | 888.803 | -48928576. | 0.000 | 60097276. | -556248. |
| AV | 0.000 | 112389. | -2203. | 3.527 | -194161. | 0.000 | 238481. | -2207. |
| MONTHLY SUMMARY (MAY) | | | | | | | | |
| MN | 0.000 | 103042. | 0. | 3.527 | 0. | 0.000 | 215495. | 0. |
| MX | 0.000 | 126508. | 0. | 3.527 | 0. | 14.469 | 268083. | 0. |
| SM | 0.000 | 28568184. | 0. | 888.803 | 0. | 1198.524 | 60012612. | 0. |
| AV | 0.000 | 113366. | 0. | 3.527 | 0. | 4.756 | 238145. | 0. |
| MONTHLY SUMMARY (JUN) | | | | | | | | |
| MN | 0.000 | 102519. | 0. | 3.527 | 0. | 0.000 | 217520. | 0. |
| MX | 4.270 | 134095. | 0. | 3.527 | 0. | 23.698 | 268563. | 0. |
| SM | 99.363 | 31035230. | 0. | 931.127 | 0. | 3095.934 | 63428512. | 0. |
| AV | 0.376 | 117558. | 0. | 3.527 | 0. | 11.727 | 240260. | 0. |
| MONTHLY SUMMARY (JUL) | | | | | | | | |
| MN | 0.000 | 104622. | 0. | 3.527 | 0. | 0.000 | 218800. | 0. |
| MX | 6.738 | 139979. | 0. | 3.527 | 0. | 24.524 | 261279. | 0. |
| SM | 720.549 | 28368608. | 0. | 846.479 | 0. | 3786.179 | 57816400. | 0. |
| AV | 3.002 | 118203. | 0. | 3.527 | 0. | 15.776 | 240902. | 0. |

| | AHU-2 | AHU-2 | AHU-3 | AHU-3 | AHU-3 | AHU-3 | AHU-3 | AHU-4 |
|-----------------------|---------------------------|-------------------------------|-------------------------------|--------------------------|-------------------------------|---------------------------|-------------------------------|-------------------------------|
| | COOLING ELECTRIC KW | COOLING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | HEATING CAPACITY BTU/HR | COOLING ELECTRIC KW | COOLING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR |
| | ----(47) | ----(70) | ----(5) | ----(49) | ----(78) | ----(47) | ----(70) | ----(5) |
| MONTHLY SUMMARY (AUG) | | | | | | | | |
| MN | 0.000 | 106643. | 0. | 3.527 | 0. | 0.000 | 223276. | 0. |
| MX | 8.360 | 129796. | 0. | 3.527 | 0. | 23.429 | 260683. | 0. |
| SM | 1170.358 | 31891918. | 0. | 973.451 | 0. | 4160.074 | 66221056. | 0. |
| AV | 4.240 | 115550. | 0. | 3.527 | 0. | 15.073 | 239931. | 0. |
| MONTHLY SUMMARY (SEP) | | | | | | | | |
| MN | 0.000 | 106563. | 0. | 3.527 | 0. | 0.000 | 222863. | 0. |
| MX | 7.797 | 129226. | 0. | 3.527 | 0. | 22.346 | 254815. | 0. |
| SM | 742.718 | 28648078. | 0. | 888.803 | 0. | 2344.857 | 60019304. | 0. |
| AV | 2.947 | 113683. | 0. | 3.527 | 0. | 9.305 | 238172. | 0. |
| MONTHLY SUMMARY (OCT) | | | | | | | | |
| MN | 0.000 | 107843. | -118551. | 3.527 | -194161. | 0.000 | 226287. | -113775. |
| MX | 5.304 | 119915. | 0. | 3.527 | 0. | 13.377 | 255239. | 0. |
| SM | 501.268 | 27068346. | -3666964. | 846.479 | -25629254. | 1241.515 | 56908032. | -3445248. |
| AV | 2.089 | 112785. | -15279. | 3.527 | -106789. | 5.173 | 237117. | -14355. |
| MONTHLY SUMMARY (NOV) | | | | | | | | |
| MN | 0.000 | 112264. | -156175. | 3.527 | -194161. | 0.000 | 234782. | -151770. |
| MX | 0.000 | 134181. | 0. | 3.527 | -194161. | 0.000 | 293515. | 0. |
| SM | 0.000 | 27397674. | -2464515. | 846.479 | -46598644. | 0.000 | 57965140. | -2298232. |
| AV | 0.000 | 114157. | -10269. | 3.527 | -194161. | 0.000 | 241521. | -9576. |
| MONTHLY SUMMARY (DEC) | | | | | | | | |
| MN | 0.000 | 112264. | -175380. | 3.527 | -194161. | 0.000 | 234782. | -170338. |
| MX | 0.000 | 113907. | -17. | 3.527 | -194161. | 0.000 | 245606. | -17. |
| SM | 0.000 | 28295804. | -9820738. | 888.803 | -48928576. | 0.000 | 59216316. | -9481578. |
| AV | 0.000 | 112285. | -38971. | 3.527 | -194161. | 0.000 | 234985. | -37625. |
| YEARLY SUMMARY | | | | | | | | |
| MN | 0.000 | 102519. | -182275. | 3.527 | -194161. | 0.000 | 215495. | -177133. |
| MX | 8.360 | 139979. | 0. | 3.527 | 0. | 24.524 | 293515. | 0. |
| SM | 3234.256 | 344460544. | -42508076. | 10665.638 | -316870784. | 15827.083 | 719297472. | -40942904. |
| AV | 1.070 | 113909. | -14057. | 3.527 | -104785. | 5.234 | 237863. | -13539. |

| MMDDHH | AHU-4 | AHU-4 | AHU-4 | AHU-4 | AHU-5 | AHU-5 | AHU-5 | AHU-5 |
|-----------------------|--------------------------|-------------------------------|---------------------------|-------------------------------|-------------------------------|--------------------------|-------------------------------|---------------------------|
| | SUPPLY ELECTRIC KW | HEATING CAPACITY BTU/HR | COOLING ELECTRIC KW | COOLING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | HEATING CAPACITY BTU/HR | COOLING ELECTRIC KW |
| | ----(49) | ----(78) | ----(47) | ----(70) | ----(5) | ----(49) | ----(78) | ----(47) |
| MONTHLY SUMMARY (JAN) | | | | | | | | |
| MN | 3.427 | -188669. | 0.000 | 228191. | -354079. | 7.066 | -388968. | 0.000 |
| MX | 3.427 | -188669. | 0.000 | 228191. | -19. | 7.066 | -388968. | 0.000 |
| SM | 863.662 | -47544584. | 0.000 | 57504216. | -20357810. | 1780.563 | -98019952. | 0.000 |
| AV | 3.427 | -188669. | 0.000 | 228191. | -80785. | 7.066 | -388968. | 0.000 |
| MONTHLY SUMMARY (FEB) | | | | | | | | |
| MN | 3.427 | -188669. | 0.000 | 228191. | -349624. | 7.066 | -388968. | 0.000 |
| MX | 3.427 | -188669. | 0.000 | 236077. | -16. | 7.066 | -388968. | 0.000 |
| SM | 781.409 | -43016528. | 0.000 | 52065000. | -14912303. | 1610.985 | -88684720. | 0.000 |
| AV | 3.427 | -188669. | 0.000 | 228355. | -65405. | 7.066 | -388968. | 0.000 |
| MONTHLY SUMMARY (MAR) | | | | | | | | |
| MN | 3.427 | -188669. | 0.000 | 223662. | -329375. | 7.066 | -388968. | 0.000 |
| MX | 3.427 | -188669. | 0.000 | 241269. | -7. | 7.066 | -388968. | 0.000 |
| SM | 945.916 | -52072640. | 0.000 | 63057224. | -5856586. | 1950.140 | -107355184. | 0.000 |
| AV | 3.427 | -188669. | 0.000 | 228468. | -21220. | 7.066 | -388968. | 0.000 |
| MONTHLY SUMMARY (APR) | | | | | | | | |
| MN | 3.427 | -188669. | 0.000 | 225917. | -147999. | 7.066 | -388968. | 0.000 |
| MX | 3.427 | -188669. | 0.000 | 264847. | 0. | 7.066 | -388968. | 0.000 |
| SM | 863.662 | -47544584. | 0.000 | 58400948. | -819406. | 1780.563 | -98019952. | 0.000 |
| AV | 3.427 | -188669. | 0.000 | 231750. | -3252. | 7.066 | -388968. | 0.000 |
| MONTHLY SUMMARY (MAY) | | | | | | | | |
| MN | 3.427 | 0. | 0.000 | 209446. | 0. | 7.066 | 0. | 0.000 |
| MX | 3.427 | 0. | 13.956 | 260502. | 0. | 7.066 | 0. | 29.466 |
| SM | 863.662 | 0. | 1160.694 | 58326024. | 0. | 1780.563 | 0. | 2509.513 |
| AV | 3.427 | 0. | 4.606 | 231452. | 0. | 7.066 | 0. | 9.958 |
| MONTHLY SUMMARY (JUN) | | | | | | | | |
| MN | 3.427 | 0. | 0.000 | 211743. | 0. | 7.066 | 0. | 0.000 |
| MX | 3.427 | 0. | 23.018 | 260979. | 0. | 7.066 | 0. | 47.328 |
| SM | 904.789 | 0. | 2998.948 | 61645844. | 0. | 1865.352 | 0. | 6244.787 |
| AV | 3.427 | 0. | 11.360 | 233507. | 0. | 7.066 | 0. | 23.654 |
| MONTHLY SUMMARY (JUL) | | | | | | | | |
| MN | 3.427 | 0. | 0.000 | 212658. | 0. | 7.066 | 0. | 0.000 |
| MX | 3.427 | 0. | 23.832 | 253903. | 0. | 7.066 | 0. | 49.001 |
| SM | 822.535 | 0. | 3669.609 | 56193340. | 0. | 1695.774 | 0. | 7567.615 |
| AV | 3.427 | 0. | 15.290 | 234139. | 0. | 7.066 | 0. | 31.532 |

| | AHU-4 | AHU-4 | AHU-4 | AHU-4 | AHU-5 | AHU-5 | AHU-5 | AHU-5 |
|-----------------------|--------------------------|-------------------------------|---------------------------|-------------------------------|-------------------------------|--------------------------|-------------------------------|---------------------------|
| | SUPPLY ELECTRIC KW | HEATING CAPACITY BTU/HR | COOLING ELECTRIC KW | COOLING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | HEATING CAPACITY BTU/HR | COOLING ELECTRIC KW |
| | ---- (49) | ---- (78) | ---- (47) | ---- (70) | ---- (5) | ---- (49) | ---- (78) | ---- (47) |
| MONTHLY SUMMARY (AUG) | | | | | | | | |
| MN | 3.427 | 0. | 0.000 | 217001. | 0. | 7.066 | 0. | 0.000 |
| MX | 3.427 | 0. | 22.778 | 253321. | 0. | 7.066 | 0. | 46.841 |
| SM | 945.916 | 0. | 4040.966 | 64362100. | 0. | 1950.140 | 0. | 8364.633 |
| AV | 3.427 | 0. | 14.641 | 233196. | 0. | 7.066 | 0. | 30.307 |
| MONTHLY SUMMARY (SEP) | | | | | | | | |
| MN | 3.427 | 0. | 0.000 | 216673. | 0. | 7.066 | 0. | 0.000 |
| MX | 3.427 | 0. | 21.763 | 252291. | 0. | 7.066 | 0. | 44.718 |
| SM | 863.662 | 0. | 2294.128 | 58334852. | 0. | 1780.563 | 0. | 4799.470 |
| AV | 3.427 | 0. | 9.104 | 231488. | 0. | 7.066 | 0. | 19.046 |
| MONTHLY SUMMARY (OCT) | | | | | | | | |
| MN | 3.427 | -188669. | 0.000 | 219910. | -224627. | 7.066 | -388968. | 0.000 |
| MX | 3.427 | 0. | 13.146 | 248129. | 0. | 7.066 | 0. | 27.533 |
| SM | 822.535 | -24904306. | 1219.089 | 55310256. | -6274902. | 1695.774 | -51343792. | 2574.720 |
| AV | 3.427 | -103768. | 5.080 | 230459. | -26145. | 7.066 | -213932. | 10.728 |
| MONTHLY SUMMARY (NOV) | | | | | | | | |
| MN | 3.427 | -188669. | 0.000 | 228191. | -278733. | 7.066 | -388968. | 0.000 |
| MX | 3.427 | -188669. | 0.000 | 285399. | 0. | 7.066 | -388968. | 0.000 |
| SM | 822.535 | -45280556. | 0.000 | 56347168. | -3257752. | 1695.774 | -93352336. | 0.000 |
| AV | 3.427 | -188669. | 0.000 | 234780. | -13574. | 7.066 | -388968. | 0.000 |
| MONTHLY SUMMARY (DEC) | | | | | | | | |
| MN | 3.427 | -188669. | 0.000 | 228191. | -330882. | 7.066 | -388968. | 0.000 |
| MX | 3.427 | -188669. | 0.000 | 238776. | -16. | 7.066 | -388968. | 0.000 |
| SM | 863.662 | -47544584. | 0.000 | 57554808. | -15127757. | 1780.563 | -98019952. | 0.000 |
| AV | 3.427 | -188669. | 0.000 | 228392. | -60031. | 7.066 | -388968. | 0.000 |
| YEARLY SUMMARY | | | | | | | | |
| MN | 3.427 | -188669. | 0.000 | 209446. | -354079. | 7.066 | -388968. | 0.000 |
| MX | 3.427 | 0. | 23.832 | 285399. | 0. | 7.066 | 0. | 49.001 |
| SM | 10363.945 | -307907776. | 15383.433 | 699101824. | -66606508. | 21366.754 | -634795904. | 32060.740 |
| AV | 3.427 | -101821. | 5.087 | 231184. | -22026. | 7.066 | -209919. | 10.602 |

| MMDDHH | AHU-5 | AHU-6 | AHU-6 | AHU-6 | AHU-6 | AHU-6 | AHU-7 | AHU-7 |
|-----------------------|-------------------------------|-------------------------------|--------------------------|-------------------------------|---------------------------|-------------------------------|-------------------------------|--------------------------|
| | COOLING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | HEATING CAPACITY BTU/HR | COOLING ELECTRIC KW | COOLING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR | SUPPLY ELECTRIC KW |
| | ----(70) | ----(5) | ----(49) | ----(78) | ----(47) | ----(70) | ----(5) | ----(49) |
| MONTHLY SUMMARY (JAN) | | | | | | | | |
| MN | 469216. | -409854. | 8.087 | -445181. | 0.000 | 532162. | -497673. | 9.184 |
| MX | 469216. | -20. | 8.087 | -445181. | 0.000 | 532162. | -35791. | 9.184 |
| SM | 118242448. | -26948602. | 2037.887 | -112185680. | 0.000 | 134104824. | -66571272. | 2314.437 |
| AV | 469216. | -106939. | 8.087 | -445181. | 0.000 | 532162. | -264172. | 9.184 |
| MONTHLY SUMMARY (FEB) | | | | | | | | |
| MN | 469216. | -405145. | 8.087 | -445181. | 0.000 | 532162. | -493149. | 9.184 |
| MX | 487368. | -16. | 8.087 | -445181. | 0.000 | 551958. | -20. | 9.184 |
| SM | 107078592. | -18976794. | 1843.803 | -101501328. | 0.000 | 121426232. | -49481696. | 2094.015 |
| AV | 469643. | -83232. | 8.087 | -445181. | 0.000 | 532571. | -217025. | 9.184 |
| MONTHLY SUMMARY (MAR) | | | | | | | | |
| MN | 460661. | -367909. | 8.087 | -445181. | 0.000 | 522703. | -457527. | 9.184 |
| MX | 498176. | -7. | 8.087 | -445181. | 0.000 | 563698. | -12. | 9.184 |
| SM | 129726664. | -7454486. | 2231.972 | -122870032. | 0.000 | 147091488. | -32742656. | 2534.859 |
| AV | 470024. | -27009. | 8.087 | -445181. | 0.000 | 532940. | -118633. | 9.184 |
| MONTHLY SUMMARY (APR) | | | | | | | | |
| MN | 464540. | -156510. | 8.087 | -445181. | 0.000 | 526859. | -404122. | 9.184 |
| MX | 549087. | 0. | 8.087 | -445181. | 0.000 | 623112. | -4. | 9.184 |
| SM | 120387984. | -1103932. | 2037.887 | -112185680. | 0.000 | 136416784. | -11087442. | 2314.437 |
| AV | 477730. | -4381. | 8.087 | -445181. | 0.000 | 541336. | -43998. | 9.184 |
| MONTHLY SUMMARY (MAY) | | | | | | | | |
| MN | 430671. | 0. | 8.087 | 0. | 0.000 | 488446. | 0. | 9.184 |
| MX | 535383. | 0. | 8.087 | 0. | 33.056 | 605018. | 0. | 9.184 |
| SM | 119884328. | 0. | 2037.887 | 0. | 2777.922 | 135878848. | 0. | 2314.437 |
| AV | 475731. | 0. | 8.087 | 0. | 11.023 | 539202. | 0. | 9.184 |
| MONTHLY SUMMARY (JUN) | | | | | | | | |
| MN | 435792. | 0. | 8.087 | 0. | 0.000 | 494338. | 0. | 9.184 |
| MX | 536264. | 0. | 8.087 | 0. | 53.753 | 606143. | 0. | 9.184 |
| SM | 126690568. | 0. | 2134.929 | 0. | 7123.375 | 143485872. | 0. | 2424.648 |
| AV | 479889. | 0. | 8.087 | 0. | 26.982 | 543507. | 0. | 9.184 |
| MONTHLY SUMMARY (JUL) | | | | | | | | |
| MN | 437276. | 0. | 8.087 | 0. | 0.000 | 495937. | 0. | 9.184 |
| MX | 521802. | 0. | 8.087 | 0. | 55.566 | 583714. | 0. | 9.184 |
| SM | 115503336. | 0. | 1940.845 | 0. | 8595.471 | 130803496. | 0. | 2204.226 |
| AV | 481264. | 0. | 8.087 | 0. | 35.814 | 545015. | 0. | 9.184 |

| | AHU-5 | AHU-6 | AHU-6 | AHU-6 | AHU-6 | AHU-6 | AHU-7 | AHU-7 |
|------------------------------|-------------------------------|-------------------------------|--------------------------|-------------------------------|---------------------------|-------------------------------|-------------------------------|--------------------------|
| | COOLING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | HEATING CAPACITY BTU/HR | COOLING ELECTRIC KW | COOLING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR | SUPPLY ELECTRIC KW |
| | ----(70) | ----(5) | ----(49) | ----(78) | ----(47) | ----(70) | ----(5) | ----(49) |
| MONTHLY SUMMARY (AUG) | | | | | | | | |
| MN | 446134. | 0. | 8.087 | 0. | 0.000 | 505647. | 0. | 9.184 |
| MK | 520600. | 0. | 8.087 | 0. | 53.123 | 588573. | 0. | 9.184 |
| SM | 132277800. | 0. | 2231.972 | 0. | 9423.399 | 149834976. | 0. | 2534.859 |
| AV | 479267. | 0. | 8.087 | 0. | 34.143 | 542880. | 0. | 9.184 |
| MONTHLY SUMMARY (SEP) | | | | | | | | |
| MN | 445384. | 0. | 8.087 | 0. | 0.000 | 504704. | 0. | 9.184 |
| MK | 509230. | 0. | 8.087 | 0. | 50.501 | 573994. | 0. | 9.184 |
| SM | 119894504. | 0. | 2037.887 | 0. | 5338.379 | 135805296. | 0. | 2314.437 |
| AV | 475772. | 0. | 8.087 | 0. | 21.184 | 538910. | 0. | 9.184 |
| MONTHLY SUMMARY (OCT) | | | | | | | | |
| MN | 452026. | -257708. | 8.087 | -445181. | 0.000 | 511206. | -397944. | 9.184 |
| MK | 511213. | 0. | 8.087 | 0. | 30.299 | 579252. | 0. | 9.184 |
| SM | 113725536. | -8149398. | 1940.845 | -58763920. | 2851.344 | 128893016. | -17295524. | 2204.226 |
| AV | 473856. | -33956. | 8.087 | -244850. | 11.881 | 537054. | -72065. | 9.184 |
| MONTHLY SUMMARY (NOV) | | | | | | | | |
| MN | 469216. | -325912. | 8.087 | -445181. | 0.000 | 532162. | -450335. | 9.184 |
| MK | 589333. | 0. | 8.087 | -445181. | 0.000 | 667397. | -1. | 9.184 |
| SM | 116043384. | -5326410. | 1940.845 | -106843504. | 0.000 | 131463488. | -26999964. | 2204.226 |
| AV | 483514. | -22193. | 8.087 | -445181. | 0.000 | 547765. | -112500. | 9.184 |
| MONTHLY SUMMARY (DEC) | | | | | | | | |
| MN | 469216. | -381895. | 8.087 | -445181. | 0.000 | 532162. | -466143. | 9.184 |
| MK | 493423. | -16. | 8.087 | -445181. | 0.000 | 557337. | -8031. | 9.184 |
| SM | 118369656. | -21143076. | 2037.887 | -112185680. | 0.000 | 134228352. | -57160604. | 2314.437 |
| AV | 469721. | -83901. | 8.087 | -445181. | 0.000 | 532652. | -226828. | 9.184 |
| YEARLY SUMMARY | | | | | | | | |
| MN | 430671. | -409854. | 8.087 | -445181. | 0.000 | 488446. | -497673. | 9.184 |
| MK | 589333. | 0. | 8.087 | 0. | 55.566 | 667397. | 0. | 9.184 |
| SM | 1437824896. | -89102688. | 24454.646 | -726535808. | 36109.887 | 1629432704. | -261339152. | 27773.246 |
| AV | 475471. | -29465. | 8.087 | -240257. | 11.941 | 538834. | -86422. | 9.184 |

| MMDDHH | AHU-7 | AHU-7 | AHU-7 |
|-----------------------|-------------------------------|---------------------------|-------------------------------|
| | HEATING CAPACITY BTU/HR | COOLING ELECTRIC KW | COOLING CAPACITY BTU/HR |
| | ---- (78) | ---- (47) | ---- (70) |
| MONTHLY SUMMARY (JAN) | | | |
| MN | -505594. | 0.000 | 588302. |
| MX | -505594. | 0.000 | 588302. |
| SM | -127409696. | 0.000 | 148252240. |
| AV | -505594. | 0.000 | 588303. |
| MONTHLY SUMMARY (FEB) | | | |
| MN | -505594. | 0.000 | 588302. |
| MX | -505594. | 0.000 | 599212. |
| SM | -115275440. | 0.000 | 134160864. |
| AV | -505594. | 0.000 | 588425. |
| MONTHLY SUMMARY (MAR) | | | |
| MN | -505594. | 0.000 | 573735. |
| MX | -505594. | 0.000 | 614393. |
| SM | -139543952. | 0.000 | 162390208. |
| AV | -505594. | 0.000 | 588370. |
| MONTHLY SUMMARY (APR) | | | |
| MN | -505594. | 0.000 | 579526. |
| MX | -505594. | 0.000 | 664917. |
| SM | -127409696. | 0.000 | 149355760. |
| AV | -505594. | 0.000 | 592682. |
| MONTHLY SUMMARY (MAY) | | | |
| MN | 0. | 0.000 | 539975. |
| MX | 0. | 31.198 | 654487. |
| SM | 0. | 2146.247 | 150262032. |
| AV | 0. | 8.517 | 596278. |
| MONTHLY SUMMARY (JUN) | | | |
| MN | 0. | 0.000 | 545604. |
| MX | 0. | 58.998 | 668065. |
| SM | 0. | 6868.215 | 158569856. |
| AV | 0. | 26.016 | 600643. |
| MONTHLY SUMMARY (JUL) | | | |
| MN | 0. | 0.000 | 548255. |
| MX | 0. | 61.095 | 645412. |
| SM | 0. | 8671.690 | 144714400. |
| AV | 0. | 36.132 | 602977. |

| | AHU-7 | AHU-7 | AHU-7 |
|-----------------------|-------------------------------|---------------------------|-------------------------------|
| | HEATING CAPACITY BTU/HR | COOLING ELBCTRIC KW | COOLING CAPACITY BTU/HR |
| | ---- (78) | ---- (47) | ---- (70) |
| MONTHLY SUMMARY (AUG) | | | |
| MN | 0. | 0.000 | 558334. |
| MX | 0. | 58.273 | 651323. |
| SM | 0. | 9346.352 | 165837232. |
| AV | 0. | 33.864 | 600860. |
| MONTHLY SUMMARY (SEP) | | | |
| MN | 0. | 0.000 | 556998. |
| MX | 0. | 55.176 | 633637. |
| SM | 0. | 4968.137 | 150119136. |
| AV | 0. | 19.715 | 595711. |
| MONTHLY SUMMARY (OCT) | | | |
| MN | -505594. | 0.000 | 565135. |
| MX | 0. | 26.538 | 634157. |
| SM | -66738412. | 2395.775 | 142327792. |
| AV | -278077. | 9.982 | 593032. |
| MONTHLY SUMMARY (NOV) | | | |
| MN | -505594. | 0.000 | 588302. |
| MX | -505594. | 0.000 | 724427. |
| SM | -121342568. | 0.000 | 144583168. |
| AV | -505594. | 0.000 | 602430. |
| MONTHLY SUMMARY (DEC) | | | |
| MN | -505594. | 0.000 | 588302. |
| MX | -505594. | 0.000 | 604343. |
| SM | -127409696. | 0.000 | 148304384. |
| AV | -505594. | 0.000 | 588509. |
| YEARLY SUMMARY | | | |
| MN | -505594. | 0.000 | 539975. |
| MX | 0. | 61.095 | 724427. |
| SM | -825129472. | 34396.414 | 1798877056. |
| AV | -272860. | 11.374 | 594867. |

ENTECH ENGINEERING
READING, PA 19603
REPORT- PV-A EQUIPMENT SIZES

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
FT. GEORGE G. MEADE

DOB-2.1D 6/ 7/1996 8:49:38 PDL RUN 1
EMCS STUDY WEATHER FILE- BALTIMORE, MD

| EQUIPMENT | NUMBER | | NUMBER | | NUMBER | | NUMBER | | NUMBER | |
|-----------|----------|-------|----------|-------|----------|-------|----------|-------|----------|-------|
| | SIZE | INSTD | SIZE | INSTD | SIZE | INSTD | SIZE | INSTD | SIZE | INSTD |
| | (MBTU/H) | AVAIL | (MBTU/H) | AVAIL | (MBTU/H) | AVAIL | (MBTU/H) | AVAIL | (MBTU/H) | AVAIL |
| HW-BOILER | 2.500 | 2 | 2 | | | | | | | |

| MO | UTILITY- | ELECTRICITY | NATURAL-GAS |
|-----|--------------|-------------|-------------|
| | TOTAL (MBTU) | 270.819 | 469.414 |
| JAN | PEAK (KBTU) | 1007.105 | 2498.120 |
| | DY/HR | 31/17 | 16/ 9 |
| | TOTAL (MBTU) | 243.263 | 390.134 |
| FEB | PEAK (KBTU) | 1007.105 | 2508.963 |
| | DY/HR | 25/ 9 | 13/10 |
| | TOTAL (MBTU) | 276.715 | 259.069 |
| MAR | PEAK (KBTU) | 1007.105 | 2282.573 |
| | DY/HR | 22/ 9 | 7/ 7 |
| | TOTAL (MBTU) | 251.405 | 157.878 |
| APR | PEAK (KBTU) | 999.814 | 1792.505 |
| | DY/HR | 11/ 8 | 10/ 7 |
| | TOTAL (MBTU) | 301.408 | 0.000 |
| MAY | PEAK (KBTU) | 1350.296 | 0.000 |
| | DY/HR | 26/16 | 31/ 1 |
| | TOTAL (MBTU) | 359.045 | 0.000 |
| JUN | PEAK (KBTU) | 1670.330 | 0.000 |
| | DY/HR | 29/16 | 30/ 1 |
| | TOTAL (MBTU) | 381.763 | 0.000 |
| JUL | PEAK (KBTU) | 1702.265 | 0.000 |
| | DY/HR | 25/14 | 31/ 1 |
| | TOTAL (MBTU) | 405.468 | 0.000 |
| AUG | PEAK (KBTU) | 1690.264 | 0.000 |
| | DY/HR | 18/17 | 31/ 1 |
| | TOTAL (MBTU) | 333.281 | 0.000 |
| SEP | PEAK (KBTU) | 1652.473 | 0.000 |
| | DY/HR | 2/14 | 30/ 1 |
| | TOTAL (MBTU) | 298.583 | 116.488 |
| OCT | PEAK (KBTU) | 1339.631 | 1768.079 |
| | DY/HR | 13/16 | 17/ 7 |
| | TOTAL (MBTU) | 243.907 | 170.005 |
| NOV | PEAK (KBTU) | 1007.105 | 2084.039 |
| | DY/HR | 28/ 9 | 25/ 7 |
| | TOTAL (MBTU) | 265.088 | 364.136 |
| DEC | PEAK (KBTU) | 1007.105 | 2309.298 |
| | DY/HR | 27/10 | 12/ 7 |
| | ONE YEAR | 3630.745 | 1927.124 |
| | USE/PEAK | 1702.265 | 2508.963 |

ENTECH ENGINEERING
READING, PA 19603
REPORT- PS-D PLANT LOADS SATISFIED

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
FT. GEORGE G. MEADE

DOE-2.1D 6/ 7/1996 8:49:38 PDL RUN 1
EMCS STUDY
WEATHER FILE- BALTIMORE, MD

| HEATING LOADS | MBTU SUPPLIED | PCT OF TOTAL LOAD |
|---------------------|---------------|-------------------|
| ----- | ----- | ----- |
| HW-BOILER | 1262.8 | 100.0 |
| | ----- | ----- |
| LOAD SATISFIED | 1262.8 | 100.0 |
| TOTAL LOAD ON PLANT | 1262.8 | |

| ELECTRICAL LOADS | MBTU SUPPLIED | PCT OF TOTAL LOAD |
|---------------------|---------------|-------------------|
| ----- | ----- | ----- |
| ELECTRICITY | 3630.7 | 100.0 |
| | ----- | ----- |
| LOAD SATISFIED | 3630.7 | 100.0 |
| TOTAL LOAD ON PLANT | 3630.8 | |

ENTECH ENGINEERING
READING, PA 19603
REPORT- PS-D PLANT LOADS SATISFIED

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
FT. GEORGE G. MEADE

DOB-2.1D 6/ 7/1996 8:49:38 PDL RUN 1
EMCS STUDY WEATHER FILE- BALTIMORE, MD

----- (CONTINUED) -----

SUMMARY OF LOADS MET

| TYPE OF LOAD | TOTAL LOAD (MBTU) | LOAD SATISFIED (MBTU) | TOTAL OVERLOAD (MBTU) | PEAK OVERLOAD (MBTU) | HOURS OVERLOADED |
|------------------|-------------------------|-----------------------------|-----------------------------|----------------------------|---------------------|
| HEATING LOADS | 1262.8 | 1262.8 | 0.000 | 0.000 | 0 |
| ELECTRICAL LOADS | 3630.8 | 3630.7 | 0.000 | 0.000 | 0 |

ENTTECH ENGINEERING
 READING, PA 19603
 REPORT- PS-H EQUIPMENT USE STATISTICS

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
 FT. GEORGE G. MEADE

DOE-2.1D 6/ 7/1996 8:49:38 PDL RUN 1
 EMCS STUDY WEATHER FILE- BALTIMORE, MD

| EQUIPMENT | AVG OPER RATIO | MAX LOAD (MBTU) | MON | | SIZE OPER | | SIZE OPER | | SIZE OPER | | SIZE OPER | |
|-----------|----------------------|-----------------------|-----|-------|-----------|------|-----------|-----|-----------|-----|-----------|-----|
| | | | DAY | HR | (MBTU) | HRS | (MBTU) | HRS | (MBTU) | HRS | (MBTU) | HRS |
| HW-BOILER | 0.107 | 1.924 | 2 | 13 10 | 2.500 | 4728 | | | | | | |

EQUIPMENT TOTALS

| | | | |
|-----------------------|-------|-------|-------|
| HW-BOILER | | 140.6 | |
| NOMINAL SIZE (MBTU) | | | 2.500 |
| NUMBER INSTALLED | | | 2 |
| FIRST COST (K\$) | 131.1 | | 131.1 |
| ANNUAL COST (K\$) | 4.2 | | 4.2 |
| CYCLICAL COST (K\$) | 5.4 | | 5.4 |
| -----TOTAL----- (K\$) | | | 140.6 |
| EQUIPMENT TOTAL | | 140.6 | |

| ENERGY TYPE IN SITE MBTU - | ELECTRICITY | NATURAL-GAS |
|-------------------------------|-------------|-------------|
| CATEGORY OF USE | | |
| SPACE HEAT | 85.31 | 1927.11 |
| SPACE COOL | 573.91 | 0.00 |
| HVAC AUX | 597.38 | 0.00 |
| DOM HOT WTR | 0.00 | 0.00 |
| AUX SOLAR | 0.00 | 0.00 |
| LIGHTS | 1721.75 | 0.00 |
| VERT TRANS | 0.00 | 0.00 |
| MISC EQUIP | 652.34 | 0.00 |
| TOTAL | 3630.69 | 1927.11 |

TOTAL SITE ENERGY 5557.87 MBTU 64.2 KBTU/SQFT-YR GROSS-AREA 64.2 KBTU/SQFT-YR NET-AREA
 TOTAL SOURCE ENERGY 12830.26 MBTU 148.1 KBTU/SQFT-YR GROSS-AREA 148.1 KBTU/SQFT-YR NET-AREA
 PERCENT OF HOURS ANY SYSTEM ZONE OUTSIDE OF THROTTLING RANGE = 46.2
 PERCENT OF HOURS ANY PLANT LOAD NOT SATISFIED = 0.0

NOTE ELECTRICITY AND/OR FUEL USED TO GENERATE ELECTRICITY IS APPORTIONED BASED
 ON THE YEARLY DEMAND. ALL OTHER ENERGY TYPES ARE APPORTIONED HOURLY.

| MMDDHH | HW-BOILE R LOAD BTU/HR | HW-BOILE R ELBCTRIC USE BTU/HR | HW-BOILE R FUEL USE BTU/HR |
|-----------------------|---------------------------------|--------------------------------------------|----------------------------------------|
| | ---- (1) | ---- (3) | ---- (4) |
| MONTHLY SUMMARY (JAN) | | | |
| MN | 34703. | 3054. | 56709. |
| MX | 1914559. | 55000. | 2498120. |
| SM | 116005248. | 18981616. | 469414560. |
| AV | 424738. | 25513. | 630934. |
| MONTHLY SUMMARY (FEB) | | | |
| MN | 34703. | 3054. | 56709. |
| MX | 1924474. | 55000. | 2508963. |
| SM | 262131904. | 15887078. | 390134656. |
| AV | 390077. | 23641. | 580558. |
| MONTHLY SUMMARY (MAR) | | | |
| MN | 34703. | 3054. | 56709. |
| MX | 1718923. | 55000. | 2282573. |
| SM | 164683552. | 12574327. | 259070160. |
| AV | 221349. | 16901. | 348213. |
| MONTHLY SUMMARY (APR) | | | |
| MN | 34703. | 3054. | 56709. |
| MX | 1284003. | 55000. | 1792505. |
| SM | 97687128. | 8256693. | 157878080. |
| AV | 135677. | 11468. | 219275. |
| MONTHLY SUMMARY (MAY) | | | |
| MN | 0. | 0. | 0. |
| MX | 0. | 0. | 0. |
| SM | 0. | 0. | 0. |
| AV | 0. | 0. | 0. |
| MONTHLY SUMMARY (JUN) | | | |
| MN | 0. | 0. | 0. |
| MX | 0. | 0. | 0. |
| SM | 0. | 0. | 0. |
| AV | 0. | 0. | 0. |
| MONTHLY SUMMARY (JUL) | | | |
| MN | 0. | 0. | 0. |
| MX | 0. | 0. | 0. |
| SM | 0. | 0. | 0. |
| AV | 0. | 0. | 0. |

| | HM-BOILE R LOAD BTU/HR | HM-BOILE R ELECTRIC USE BTU/HR | HM-BOILE R FUEL USE BTU/HR |
|-----------------------|---------------------------------|--------------------------------------------|----------------------------------------|
| | ---- (1) | ---- (3) | ---- (4) |
| MONTHLY SUMMARY (AUG) | | | |
| MN | 0. | 0. | 0. |
| MX | 0. | 0. | 0. |
| SM | 0. | 0. | 0. |
| AV | 0. | 0. | 0. |
| MONTHLY SUMMARY (SEP) | | | |
| MN | 0. | 0. | 0. |
| MX | 0. | 0. | 0. |
| SM | 0. | 0. | 0. |
| AV | 0. | 0. | 0. |
| MONTHLY SUMMARY (OCT) | | | |
| MN | 0. | 0. | 0. |
| MX | 1262667. | 55000. | 1768079. |
| SM | 73277624. | 5816414. | 116488072. |
| AV | 98491. | 7818. | 156570. |
| MONTHLY SUMMARY (NOV) | | | |
| MN | 34703. | 3054. | 56709. |
| MX | 1541120. | 55000. | 2084039. |
| SM | 108425328. | 8155529. | 170005072. |
| AV | 150591. | 11327. | 236118. |
| MONTHLY SUMMARY (DEC) | | | |
| MN | 34703. | 3054. | 56709. |
| MX | 1743031. | 55000. | 2309298. |
| SM | 240614064. | 15645103. | 364136960. |
| AV | 323406. | 21028. | 489431. |
| YEARLY SUMMARY | | | |
| MN | 0. | 0. | 0. |
| MX | 1924474. | 55000. | 2508963. |
| SM | 1262824832. | 85316760. | 1927127552. |
| AV | 144158. | 9739. | 219992. |

BLDG 4552
 W/SETBACK F VENT CONTROL
 FILE: FTM4552N

| MMDDRH | AHU-1 | AHU-1 | AHU-1 | AHU-1 | AHU-1 | AHU-2 | AHU-2 | AHU-2 |
|-----------------------|-------------------------------|--------------------------|-------------------------------|---------------------------|-------------------------------|-------------------------------|--------------------------|-------------------------------|
| | TOT HTG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | HEATING CAPACITY BTU/HR | COOLING ELECTRIC KW | COOLING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | HEATING CAPACITY BTU/HR |
| | ----(5) | ----(49) | ----(78) | ----(47) | ----(70) | ----(5) | ----(49) | ----(78) |
| MONTHLY SUMMARY (JAN) | | | | | | | | |
| MN | -98804. | 1.819 | -100150. | 0.000 | 112264. | -98804. | 1.819 | -100150. |
| MX | -26860. | 1.819 | -100150. | 0.000 | 112264. | -26860. | 1.819 | -100150. |
| SM | -15609543. | 458.451 | -25237706. | 0.000 | 28290524. | -15609543. | 458.451 | -25237706. |
| AV | -61943. | 1.819 | -100150. | 0.000 | 112264. | -61943. | 1.819 | -100150. |
| MONTHLY SUMMARY (FEB) | | | | | | | | |
| MN | -98368. | 1.819 | -100150. | 0.000 | 112264. | -98368. | 1.819 | -100150. |
| MX | -31706. | 1.819 | -100150. | 0.000 | 112264. | -31706. | 1.819 | -100150. |
| SM | -15970181. | 414.789 | -22834114. | 0.000 | 25596188. | -15970181. | 414.789 | -22834114. |
| AV | -70045. | 1.819 | -100150. | 0.000 | 112264. | -70045. | 1.819 | -100150. |
| MONTHLY SUMMARY (MAR) | | | | | | | | |
| MN | -96537. | 1.819 | -100150. | 0.000 | 109484. | -96537. | 1.819 | -100150. |
| MX | -28203. | 1.819 | -100150. | 0.000 | 115554. | -28203. | 1.819 | -100150. |
| SM | -18141856. | 502.113 | -27641298. | 0.000 | 30978030. | -18141856. | 502.113 | -27641298. |
| AV | -65731. | 1.819 | -100150. | 0.000 | 112239. | -65731. | 1.819 | -100150. |
| MONTHLY SUMMARY (APR) | | | | | | | | |
| MN | -95719. | 1.819 | -100150. | 0.000 | 105514. | -95719. | 1.819 | -100150. |
| MX | -16324. | 1.819 | -100150. | 0.000 | 118746. | -16324. | 1.819 | -100150. |
| SM | -13707303. | 458.451 | -25237706. | 0.000 | 28321952. | -13707303. | 458.451 | -25237706. |
| AV | -54394. | 1.819 | -100150. | 0.000 | 112389. | -54394. | 1.819 | -100150. |
| MONTHLY SUMMARY (MAY) | | | | | | | | |
| MN | 0. | 1.819 | 0. | 0.000 | 103042. | 0. | 1.819 | 0. |
| MX | 0. | 1.819 | 0. | 0.000 | 126379. | 0. | 1.819 | 0. |
| SM | 0. | 458.451 | 0. | 0.000 | 28568482. | 0. | 458.451 | 0. |
| AV | 0. | 1.819 | 0. | 0.000 | 113367. | 0. | 1.819 | 0. |
| MONTHLY SUMMARY (JUN) | | | | | | | | |
| MN | 0. | 1.819 | 0. | 0.000 | 102519. | 0. | 1.819 | 0. |
| MX | 0. | 1.819 | 0. | 3.863 | 134054. | 0. | 1.819 | 0. |
| SM | 0. | 480.282 | 0. | 84.674 | 31053406. | 0. | 480.282 | 0. |
| AV | 0. | 1.819 | 0. | 0.321 | 117627. | 0. | 1.819 | 0. |
| MONTHLY SUMMARY (JUL) | | | | | | | | |
| MN | 0. | 1.819 | 0. | 0.000 | 104622. | 0. | 1.819 | 0. |
| MX | 0. | 1.819 | 0. | 6.710 | 139393. | 0. | 1.819 | 0. |
| SM | 0. | 436.620 | 0. | 664.173 | 28496332. | 0. | 436.620 | 0. |
| AV | 0. | 1.819 | 0. | 2.767 | 118735. | 0. | 1.819 | 0. |

| | AHU-1 | AHU-1 | AHU-1 | AHU-1 | AHU-1 | AHU-2 | AHU-2 | AHU-2 |
|-----------------------|-------------------------------|--------------------------|-------------------------------|---------------------------|-------------------------------|-------------------------------|--------------------------|-------------------------------|
| | TOT HTG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | HEATING CAPACITY BTU/HR | COOLING ELECTRIC KW | COOLING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | HEATING CAPACITY BTU/HR |
| | ---- (5) | ---- (49) | ---- (78) | ---- (47) | ---- (70) | ---- (5) | ---- (49) | ---- (78) |
| MONTHLY SUMMARY (AUG) | | | | | | | | |
| MN | 0. | 1.819 | 0. | 0.000 | 106633. | 0. | 1.819 | 0. |
| MX | 0. | 1.819 | 0. | 8.417 | 129622. | 0. | 1.819 | 0. |
| SM | 0. | 502.113 | 0. | 1194.629 | 31887028. | 0. | 502.113 | 0. |
| AV | 0. | 1.819 | 0. | 4.328 | 115533. | 0. | 1.819 | 0. |
| MONTHLY SUMMARY (SEP) | | | | | | | | |
| MN | 0. | 1.819 | 0. | 0.000 | 106559. | 0. | 1.819 | 0. |
| MX | 0. | 1.819 | 0. | 7.804 | 128974. | 0. | 1.819 | 0. |
| SM | 0. | 458.451 | 0. | 789.149 | 28657166. | 0. | 458.451 | 0. |
| AV | 0. | 1.819 | 0. | 3.132 | 113719. | 0. | 1.819 | 0. |
| MONTHLY SUMMARY (OCT) | | | | | | | | |
| MN | -58879. | 1.819 | -100150. | 0.000 | 107843. | -58879. | 1.819 | -100150. |
| MX | 0. | 1.819 | 0. | 5.349 | 119968. | 0. | 1.819 | 0. |
| SM | -1918350. | 436.620 | -13219748. | 541.759 | 27072690. | -1918350. | 436.620 | -13219748. |
| AV | -7993. | 1.819 | -55082. | 2.257 | 112803. | -7993. | 1.819 | -55082. |
| MONTHLY SUMMARY (NOV) | | | | | | | | |
| MN | -83024. | 1.819 | -100150. | 0.000 | 112264. | -83024. | 1.819 | -100150. |
| MX | -13. | 1.819 | -100150. | 0.000 | 134181. | -13. | 1.819 | -100150. |
| SM | -2699061. | 436.620 | -24035910. | 0.000 | 27397676. | -2699061. | 436.620 | -24035910. |
| AV | -11246. | 1.819 | -100150. | 0.000 | 114157. | -11246. | 1.819 | -100150. |
| MONTHLY SUMMARY (DEC) | | | | | | | | |
| MN | -96462. | 1.819 | -100150. | 0.000 | 112264. | -96462. | 1.819 | -100150. |
| MX | -5315. | 1.819 | -100150. | 0.000 | 113909. | -5315. | 1.819 | -100150. |
| SM | -9479130. | 458.451 | -25237706. | 0.000 | 28295810. | -9479130. | 458.451 | -25237706. |
| AV | -37616. | 1.819 | -100150. | 0.000 | 112285. | -37616. | 1.819 | -100150. |
| YEARLY SUMMARY | | | | | | | | |
| MN | -98804. | 1.819 | -100150. | 0.000 | 102519. | -98804. | 1.819 | -100150. |
| MX | 0. | 1.819 | 0. | 8.417 | 139393. | 0. | 1.819 | 0. |
| SM | -77525424. | 5501.409 | -163444192. | 3274.385 | 344615296. | -77525424. | 5501.409 | -163444192. |
| AV | -25637. | 1.819 | -54049. | 1.083 | 113960. | -25637. | 1.819 | -54049. |

| MMDDHH | AHU-2 | AHU-2 | AHU-3 | AHU-3 | AHU-3 | AHU-3 | AHU-3 | AHU-4 |
|-----------------------|---------------------------|-------------------------------|-------------------------------|--------------------------|-------------------------------|---------------------------|-------------------------------|-------------------------------|
| | COOLING ELECTRIC KW | COOLING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | HEATING CAPACITY BTU/HR | COOLING ELECTRIC KW | COOLING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR |
| | ----(47) | ----(70) | ----(5) | ----(49) | ----(78) | ----(47) | ----(70) | ----(5) |
| MONTHLY SUMMARY (JAN) | | | | | | | | |
| MN | 0.000 | 112264. | -185407. | 3.527 | -194161. | 0.000 | 234782. | -180246. |
| MX | 0.000 | 112264. | -20. | 3.527 | -194161. | 0.000 | 234782. | -20. |
| SM | 0.000 | 28290524. | -12728196. | 888.803 | -48928576. | 0.000 | 59164984. | -12279444. |
| AV | 0.000 | 112264. | -50509. | 3.527 | -194161. | 0.000 | 234782. | -48728. |
| MONTHLY SUMMARY (FEB) | | | | | | | | |
| MN | 0.000 | 112264. | -180963. | 3.527 | -194161. | 0.000 | 234782. | -175858. |
| MX | 0.000 | 112264. | -17. | 3.527 | -194161. | 0.000 | 243000. | -17. |
| SM | 0.000 | 25596188. | -9314552. | 804.155 | -44268712. | 0.000 | 53569300. | -9033797. |
| AV | 0.000 | 112264. | -40853. | 3.527 | -194161. | 0.000 | 234953. | -39622. |
| MONTHLY SUMMARY (MAR) | | | | | | | | |
| MN | 0.000 | 109484. | -176171. | 3.527 | -194161. | 0.000 | 230121. | -170248. |
| MX | 0.000 | 115554. | -9. | 3.527 | -194161. | 0.000 | 248295. | -9. |
| SM | 0.000 | 30978030. | -3994057. | 973.451 | -53588440. | 0.000 | 64878984. | -3864896. |
| AV | 0.000 | 112239. | -14471. | 3.527 | -194161. | 0.000 | 235069. | -14003. |
| MONTHLY SUMMARY (APR) | | | | | | | | |
| MN | 0.000 | 105514. | -84801. | 3.527 | -194161. | 0.000 | 232442. | -82925. |
| MX | 0.000 | 118746. | 0. | 3.527 | -194161. | 0.000 | 272634. | 0. |
| SM | 0.000 | 28321952. | -552051. | 888.803 | -48928576. | 0.000 | 60097972. | -553431. |
| AV | 0.000 | 112389. | -2191. | 3.527 | -194161. | 0.000 | 238484. | -2196. |
| MONTHLY SUMMARY (MAY) | | | | | | | | |
| MN | 0.000 | 103042. | 0. | 3.527 | 0. | 0.000 | 215495. | 0. |
| MX | 0.000 | 126379. | 0. | 3.527 | 0. | 14.468 | 268083. | 0. |
| SM | 0.000 | 28568482. | 0. | 888.803 | 0. | 1227.182 | 60013592. | 0. |
| AV | 0.000 | 113367. | 0. | 3.527 | 0. | 4.870 | 238149. | 0. |
| MONTHLY SUMMARY (JUN) | | | | | | | | |
| MN | 0.000 | 102519. | 0. | 3.527 | 0. | 0.000 | 217514. | 0. |
| MX | 3.863 | 134054. | 0. | 3.527 | 0. | 23.697 | 268551. | 0. |
| SM | 84.674 | 31053406. | 0. | 931.127 | 0. | 3107.542 | 63425572. | 0. |
| AV | 0.321 | 117627. | 0. | 3.527 | 0. | 11.771 | 240248. | 0. |
| MONTHLY SUMMARY (JUL) | | | | | | | | |
| MN | 0.000 | 104622. | 0. | 3.527 | 0. | 0.000 | 218800. | 0. |
| MX | 6.710 | 139393. | 0. | 3.527 | 0. | 24.521 | 261276. | 0. |
| SM | 664.173 | 28496332. | 0. | 846.479 | 0. | 3799.599 | 57806224. | 0. |
| AV | 2.767 | 118735. | 0. | 3.527 | 0. | 15.832 | 240859. | 0. |

| | AHU-2 | AHU-2 | AHU-3 | AHU-3 | AHU-3 | AHU-3 | AHU-3 | AHU-4 |
|-----------------------|---------------------------|-------------------------------|-------------------------------|--------------------------|-------------------------------|---------------------------|-------------------------------|-------------------------------|
| | COOLING ELECTRIC KW | COOLING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | HEATING CAPACITY BTU/HR | COOLING ELECTRIC KW | COOLING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR |
| | ----(47) | ----(70) | ----(5) | ----(49) | ----(78) | ----(47) | ----(70) | ----(5) |
| MONTHLY SUMMARY (AUG) | | | | | | | | |
| MN | 0.000 | 106633. | 0. | 3.527 | 0. | 0.000 | 223275. | 0. |
| MX | 8.417 | 129622. | 0. | 3.527 | 0. | 23.429 | 260682. | 0. |
| SM | 1194.629 | 31887028. | 0. | 973.451 | 0. | 4141.185 | 66234000. | 0. |
| AV | 4.328 | 115533. | 0. | 3.527 | 0. | 15.004 | 239978. | 0. |
| MONTHLY SUMMARY (SEP) | | | | | | | | |
| MN | 0.000 | 106559. | 0. | 3.527 | 0. | 0.000 | 222851. | 0. |
| MX | 7.804 | 128974. | 0. | 3.527 | 0. | 22.343 | 254819. | 0. |
| SM | 789.149 | 28657166. | 0. | 888.803 | 0. | 2348.402 | 60021720. | 0. |
| AV | 3.132 | 113719. | 0. | 3.527 | 0. | 9.319 | 238181. | 0. |
| MONTHLY SUMMARY (OCT) | | | | | | | | |
| MN | 0.000 | 107843. | -113042. | 3.527 | -194161. | 0.000 | 226538. | -108132. |
| MX | 5.349 | 119968. | 0. | 3.527 | 0. | 13.419 | 255243. | 0. |
| SM | 541.759 | 27072690. | -3569131. | 846.479 | -25629254. | 1283.699 | 56907644. | -3347182. |
| AV | 2.257 | 112803. | -14871. | 3.527 | -106789. | 5.349 | 237115. | -13947. |
| MONTHLY SUMMARY (NOV) | | | | | | | | |
| MN | 0.000 | 112264. | -156633. | 3.527 | -194161. | 0.000 | 234782. | -152206. |
| MX | 0.000 | 134181. | 0. | 3.527 | -194161. | 0.000 | 293515. | 0. |
| SM | 0.000 | 27397676. | -2446146. | 846.479 | -46598644. | 0.000 | 57965476. | -2280467. |
| AV | 0.000 | 114157. | -10192. | 3.527 | -194161. | 0.000 | 241523. | -9502. |
| MONTHLY SUMMARY (DEC) | | | | | | | | |
| MN | 0.000 | 112264. | -177129. | 3.527 | -194161. | 0.000 | 234782. | -171890. |
| MX | 0.000 | 113909. | -17. | 3.527 | -194161. | 0.000 | 245625. | -17. |
| SM | 0.000 | 28295810. | -9779784. | 888.803 | -48928576. | 0.000 | 59216500. | -9446874. |
| AV | 0.000 | 112285. | -38809. | 3.527 | -194161. | 0.000 | 234986. | -37488. |
| YEARLY SUMMARY | | | | | | | | |
| MN | 0.000 | 102519. | -185407. | 3.527 | -194161. | 0.000 | 215495. | -180246. |
| MX | 8.417 | 139393. | 0. | 3.527 | 0. | 24.521 | 293515. | 0. |
| SM | 1274.385 | 344615296. | -42383920. | 10665.638 | -316870784. | 15907.609 | 719301952. | -40806088. |
| AV | 1.083 | 113960. | -14016. | 3.527 | -104785. | 5.260 | 237864. | -13494. |

| MMDDHH | AHU-4 | AHU-4 | AHU-4 | AHU-4 | AHU-5 | AHU-5 | AHU-5 | AHU-5 |
|-----------------------|--------------------------|-------------------------------|---------------------------|-------------------------------|-------------------------------|--------------------------|-------------------------------|---------------------------|
| | SUPPLY ELECTRIC KW | HEATING CAPACITY BTU/HR | COOLING ELECTRIC KW | COOLING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | HEATING CAPACITY BTU/HR | COOLING ELECTRIC KW |
| | ----(49) | ----(78) | ----(47) | ----(70) | ----(5) | ----(49) | ----(78) | ----(47) |
| MONTHLY SUMMARY (JAN) | | | | | | | | |
| MN | 3.427 | -188669. | 0.000 | 228191. | -366964. | 7.066 | -388968. | 0.000 |
| MX | 3.427 | -188669. | 0.000 | 228191. | -19. | 7.066 | -388968. | 0.000 |
| SM | 863.662 | -47544584. | 0.000 | 57504216. | -20277076. | 1780.563 | -98019952. | 0.000 |
| AV | 3.427 | -188669. | 0.000 | 228191. | -80465. | 7.066 | -388968. | 0.000 |
| MONTHLY SUMMARY (FEB) | | | | | | | | |
| MN | 3.427 | -188669. | 0.000 | 228191. | -357765. | 7.066 | -388968. | 0.000 |
| MX | 3.427 | -188669. | 0.000 | 236118. | -16. | 7.066 | -388968. | 0.000 |
| SM | 781.409 | -43016528. | 0.000 | 52065280. | -14875205. | 1610.985 | -88604720. | 0.000 |
| AV | 3.427 | -188669. | 0.000 | 228356. | -65242. | 7.066 | -388968. | 0.000 |
| MONTHLY SUMMARY (MAR) | | | | | | | | |
| MN | 3.427 | -188669. | 0.000 | 223662. | -331696. | 7.066 | -388968. | 0.000 |
| MX | 3.427 | -188669. | 0.000 | 241295. | -7. | 7.066 | -388968. | 0.000 |
| SM | 945.916 | -52072640. | 0.000 | 63057412. | -5749768. | 1950.140 | -107355184. | 0.000 |
| AV | 3.427 | -188669. | 0.000 | 228469. | -20832. | 7.066 | -388968. | 0.000 |
| MONTHLY SUMMARY (APR) | | | | | | | | |
| MN | 3.427 | -188669. | 0.000 | 225917. | -142724. | 7.066 | -388968. | 0.000 |
| MX | 3.427 | -188669. | 0.000 | 264850. | 0. | 7.066 | -388968. | 0.000 |
| SM | 863.662 | -47544584. | 0.000 | 58401624. | -814750. | 1780.563 | -98019952. | 0.000 |
| AV | 3.427 | -188669. | 0.000 | 231752. | -3233. | 7.066 | -388968. | 0.000 |
| MONTHLY SUMMARY (MAY) | | | | | | | | |
| MN | 3.427 | 0. | 0.000 | 209446. | 0. | 7.066 | 0. | 0.000 |
| MX | 3.427 | 0. | 13.929 | 260491. | 0. | 7.066 | 0. | 29.393 |
| SM | 863.662 | 0. | 1182.604 | 58330816. | 0. | 1780.563 | 0. | 2549.937 |
| AV | 3.427 | 0. | 4.693 | 231471. | 0. | 7.066 | 0. | 10.119 |
| MONTHLY SUMMARY (JUN) | | | | | | | | |
| MN | 3.427 | 0. | 0.000 | 211739. | 0. | 7.066 | 0. | 0.000 |
| MX | 3.427 | 0. | 23.017 | 260967. | 0. | 7.066 | 0. | 47.329 |
| SM | 904.789 | 0. | 3006.874 | 61645384. | 0. | 1865.352 | 0. | 6271.426 |
| AV | 3.427 | 0. | 11.390 | 233505. | 0. | 7.066 | 0. | 23.755 |
| MONTHLY SUMMARY (JUL) | | | | | | | | |
| MN | 3.427 | 0. | 0.000 | 212658. | 0. | 7.066 | 0. | 0.000 |
| MX | 3.427 | 0. | 23.829 | 253901. | 0. | 7.066 | 0. | 48.996 |
| SM | 822.535 | 0. | 3667.071 | 56193508. | 0. | 1695.774 | 0. | 7564.436 |
| AV | 3.427 | 0. | 15.279 | 234140. | 0. | 7.066 | 0. | 31.518 |

| | AHU-4 | AHU-4 | AHU-4 | AHU-4 | AHU-5 | AHU-5 | AHU-5 | AHU-5 |
|-----------------------|--------------------------|-------------------------------|---------------------------|-------------------------------|-------------------------------|--------------------------|-------------------------------|---------------------------|
| | SUPPLY ELECTRIC KW | HEATING CAPACITY BTU/HR | COOLING ELECTRIC KW | COOLING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | HEATING CAPACITY BTU/HR | COOLING ELECTRIC KW |
| | ----(49) | ----(78) | ----(47) | ----(70) | ----(5) | ----(49) | ----(78) | ----(47) |
| MONTHLY SUMMARY (AUG) | | | | | | | | |
| MN | 3.427 | 0. | 0.000 | 217000. | 0. | 7.066 | 0. | 0.000 |
| MX | 3.427 | 0. | 22.778 | 253325. | 0. | 7.066 | 0. | 46.841 |
| SM | 945.916 | 0. | 4049.351 | 64359268. | 0. | 1950.140 | 0. | 8331.557 |
| AV | 3.427 | 0. | 14.672 | 233186. | 0. | 7.066 | 0. | 30.187 |
| MONTHLY SUMMARY (SEP) | | | | | | | | |
| MN | 3.427 | 0. | 0.000 | 216681. | 0. | 7.066 | 0. | 0.000 |
| MX | 3.427 | 0. | 21.766 | 252291. | 0. | 7.066 | 0. | 44.711 |
| SM | 863.662 | 0. | 2301.460 | 58336036. | 0. | 1780.563 | 0. | 4806.788 |
| AV | 3.427 | 0. | 9.133 | 231492. | 0. | 7.066 | 0. | 19.075 |
| MONTHLY SUMMARY (OCT) | | | | | | | | |
| MN | 3.427 | -188669. | 0.000 | 220149. | -212039. | 7.066 | -388968. | 0.000 |
| MX | 3.427 | 0. | 13.202 | 248128. | 0. | 7.066 | 0. | 27.631 |
| SM | 822.535 | -24904306. | 1259.489 | 55311240. | -6011561. | 1695.774 | -51343792. | 2660.644 |
| AV | 3.427 | -103768. | 5.248 | 230464. | -25048. | 7.066 | -213932. | 11.086 |
| MONTHLY SUMMARY (NOV) | | | | | | | | |
| MN | 3.427 | -188669. | 0.000 | 228191. | -276301. | 7.066 | -388968. | 0.000 |
| MX | 3.427 | -188669. | 0.000 | 285399. | 0. | 7.066 | -388968. | 0.000 |
| SM | 822.535 | -45280556. | 0.000 | 56347512. | -3174742. | 1695.774 | -93352336. | 0.000 |
| AV | 3.427 | -188669. | 0.000 | 234781. | -13228. | 7.066 | -388968. | 0.000 |
| MONTHLY SUMMARY (DEC) | | | | | | | | |
| MN | 3.427 | -188669. | 0.000 | 228191. | -333383. | 7.066 | -388968. | 0.000 |
| MX | 3.427 | -188669. | 0.000 | 238795. | -16. | 7.066 | -388968. | 0.000 |
| SM | 863.662 | -47544584. | 0.000 | 57554992. | -15036753. | 1780.563 | -98019952. | 0.000 |
| AV | 3.427 | -188669. | 0.000 | 228393. | -59670. | 7.066 | -388968. | 0.000 |
| YEARLY SUMMARY | | | | | | | | |
| MN | 3.427 | -188669. | 0.000 | 209446. | -366964. | 7.066 | -388968. | 0.000 |
| MX | 3.427 | 0. | 23.829 | 285399. | 0. | 7.066 | 0. | 48.996 |
| SM | 10363.945 | -307907776. | 15466.849 | 699107328. | -65939848. | 21366.754 | -634795904. | 32184.787 |
| AV | 3.427 | -101821. | 5.115 | 231186. | -21806. | 7.066 | -209919. | 10.643 |

| MMDDHH | AHU-5 | AHU-6 | AHU-6 | AHU-6 | AHU-6 | AHU-6 | AHU-7 | AHU-7 |
|-----------------------|-------------------------------|-------------------------------|--------------------------|-------------------------------|---------------------------|-------------------------------|-------------------------------|--------------------------|
| | COOLING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | HEATING CAPACITY BTU/HR | COOLING ELECTRIC KW | COOLING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR | SUPPLY ELECTRIC KW |
| | ---- (70) | ---- (5) | ---- (49) | ---- (78) | ---- (47) | ---- (70) | ---- (5) | ---- (49) |
| MONTHLY SUMMARY (JAN) | | | | | | | | |
| MN | 469216. | -420924. | 8.087 | -445181. | 0.000 | 532162. | -498448. | 9.184 |
| MX | 469216. | -20. | 8.087 | -445181. | 0.000 | 532162. | -35772. | 9.184 |
| SM | 118242448. | -26904050. | 2037.887 | -112185680. | 0.000 | 134104824. | -66425276. | 2314.437 |
| AV | 469216. | -106762. | 8.087 | -445181. | 0.000 | 532162. | -263592. | 9.184 |
| MONTHLY SUMMARY (FEB) | | | | | | | | |
| MN | 469216. | -413088. | 8.087 | -445181. | 0.000 | 532162. | -493392. | 9.184 |
| MX | 487522. | -16. | 8.087 | -445181. | 0.000 | 552079. | -20. | 9.184 |
| SM | 107079984. | -18969496. | 1843.803 | -101501328. | 0.000 | 121427280. | -49448020. | 2094.015 |
| AV | 469649. | -83200. | 8.087 | -445181. | 0.000 | 532576. | -216877. | 9.184 |
| MONTHLY SUMMARY (MAR) | | | | | | | | |
| MN | 460670. | -368848. | 8.087 | -445181. | 0.000 | 522703. | -451219. | 9.184 |
| MX | 498286. | -7. | 8.087 | -445181. | 0.000 | 563779. | -12. | 9.184 |
| SM | 129727664. | -7361569. | 2231.972 | -122870032. | 0.000 | 147092032. | -32842308. | 2534.859 |
| AV | 470028. | -26672. | 8.087 | -445181. | 0.000 | 532942. | -118994. | 9.184 |
| MONTHLY SUMMARY (APR) | | | | | | | | |
| MN | 464540. | -158062. | 8.087 | -445181. | 0.000 | 526859. | -404111. | 9.184 |
| MX | 549109. | 0. | 8.087 | -445181. | 0.000 | 624841. | -4. | 9.184 |
| SM | 120424704. | -1122403. | 2037.887 | -112185680. | 0.000 | 136483648. | -11085033. | 2314.437 |
| AV | 477876. | -4454. | 8.087 | -445181. | 0.000 | 541602. | -43988. | 9.184 |
| MONTHLY SUMMARY (MAY) | | | | | | | | |
| MN | 430671. | 0. | 8.087 | 0. | 0.000 | 488446. | 0. | 9.184 |
| MX | 535353. | 0. | 8.087 | 0. | 33.663 | 605028. | 0. | 9.184 |
| SM | 119890104. | 0. | 2037.887 | 0. | 2867.693 | 135877056. | 0. | 2314.437 |
| AV | 475754. | 0. | 8.087 | 0. | 11.380 | 539195. | 0. | 9.184 |
| MONTHLY SUMMARY (JUN) | | | | | | | | |
| MN | 435785. | 0. | 8.087 | 0. | 0.000 | 494333. | 0. | 9.184 |
| MX | 536240. | 0. | 8.087 | 0. | 53.752 | 606119. | 0. | 9.184 |
| SM | 126683928. | 0. | 2134.929 | 0. | 7156.442 | 143482992. | 0. | 2424.648 |
| AV | 479863. | 0. | 8.087 | 0. | 27.108 | 543496. | 0. | 9.184 |
| MONTHLY SUMMARY (JUL) | | | | | | | | |
| MN | 437276. | 0. | 8.087 | 0. | 0.000 | 495937. | 0. | 9.184 |
| MX | 521797. | 0. | 8.087 | 0. | 55.560 | 583759. | 0. | 9.184 |
| SM | 115501968. | 0. | 1940.845 | 0. | 8594.998 | 130798560. | 0. | 2204.226 |
| AV | 481258. | 0. | 8.087 | 0. | 35.812 | 544994. | 0. | 9.184 |

| | AHU-5 | AHU-6 | AHU-6 | AHU-6 | AHU-6 | AHU-6 | AHU-7 | AHU-7 |
|-----------------------|-------------------------------|-------------------------------|--------------------------|-------------------------------|---------------------------|-------------------------------|-------------------------------|--------------------------|
| | COOLING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | HEATING CAPACITY BTU/HR | COOLING ELECTRIC KW | COOLING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR | SUPPLY ELECTRIC KW |
| | ---- (70) | ---- (5) | ---- (49) | ---- (78) | ---- (47) | ---- (70) | ---- (5) | ---- (49) |
| MONTHLY SUMMARY (AUG) | | | | | | | | |
| MN | 446132. | 0. | 8.087 | 0. | 0.000 | 505647. | 0. | 9.184 |
| MX | 520596. | 0. | 8.087 | 0. | 53.123 | 588585. | 0. | 9.184 |
| SM | 132298496. | 0. | 2231.972 | 0. | 9429.646 | 149837072. | 0. | 2534.859 |
| AV | 479342. | 0. | 8.087 | 0. | 34.165 | 542888. | 0. | 9.184 |
| MONTHLY SUMMARY (SEP) | | | | | | | | |
| MN | 445361. | 0. | 8.087 | 0. | 0.000 | 504704. | 0. | 9.184 |
| MX | 509231. | 0. | 8.087 | 0. | 50.501 | 573998. | 0. | 9.184 |
| SM | 119900160. | 0. | 2037.887 | 0. | 5324.457 | 135828336. | 0. | 2314.437 |
| AV | 475794. | 0. | 8.087 | 0. | 21.129 | 539001. | 0. | 9.184 |
| MONTHLY SUMMARY (OCT) | | | | | | | | |
| MN | 452484. | -252937. | 8.087 | -445181. | 0.000 | 511548. | -386883. | 9.184 |
| MX | 511214. | 0. | 8.087 | 0. | 30.535 | 579256. | 0. | 9.184 |
| SM | 113723072. | -7855142. | 1940.845 | -58763920. | 2949.240 | 128896496. | -17104040. | 2204.226 |
| AV | 473846. | -32730. | 8.087 | -244850. | 12.288 | 537069. | -71267. | 9.184 |
| MONTHLY SUMMARY (NOV) | | | | | | | | |
| MN | 469216. | -326640. | 8.087 | -445181. | 0.000 | 532162. | -454829. | 9.184 |
| MX | 589333. | 0. | 8.087 | -445181. | 0.000 | 667399. | -1. | 9.184 |
| SM | 116048840. | -5286153. | 1940.845 | -106843504. | 0.000 | 131464904. | -26953560. | 2204.226 |
| AV | 483537. | -22026. | 8.087 | -445181. | 0.000 | 547770. | -112307. | 9.184 |
| MONTHLY SUMMARY (DEC) | | | | | | | | |
| MN | 469216. | -385056. | 8.087 | -445181. | 0.000 | 532162. | -476165. | 9.184 |
| MX | 493490. | -16. | 8.087 | -445181. | 0.000 | 557396. | -8069. | 9.184 |
| SM | 118370320. | -21050424. | 2037.887 | -112185680. | 0.000 | 134228896. | -56992272. | 2314.437 |
| AV | 469724. | -83533. | 8.087 | -445181. | 0.000 | 532654. | -226160. | 9.184 |
| YEARLY SUMMARY | | | | | | | | |
| MN | 430671. | -420924. | 8.087 | -445181. | 0.000 | 488446. | -498448. | 9.184 |
| MX | 589333. | 0. | 8.087 | 0. | 55.560 | 667399. | 0. | 9.184 |
| SM | 1437891840. | -88549232. | 24454.646 | -726535808. | 36322.473 | 1629522176. | -260850512. | 27773.246 |
| AV | 475493. | -29282. | 8.087 | -240257. | 12.011 | 538863. | -86260. | 9.184 |

| MMDDHH | AHU-7 | AHU-7 | AHU-7 |
|-----------------------|-------------------------------|---------------------------|-------------------------------|
| | HEATING CAPACITY BTU/HR | COOLING ELECTRIC KW | COOLING CAPACITY BTU/HR |
| | ----(78) | ----(47) | ----(70) |
| MONTHLY SUMMARY (JAN) | | | |
| MN | -505594. | 0.000 | 588302. |
| MX | -505594. | 0.000 | 588302. |
| SM | -127409696. | 0.000 | 148252240. |
| AV | -505594. | 0.000 | 588303. |
| MONTHLY SUMMARY (FEB) | | | |
| MN | -505594. | 0.000 | 588302. |
| MX | -505594. | 0.000 | 599249. |
| SM | -115275440. | 0.000 | 134161016. |
| AV | -505594. | 0.000 | 588426. |
| MONTHLY SUMMARY (MAR) | | | |
| MN | -505594. | 0.000 | 573735. |
| MX | -505594. | 0.000 | 614401. |
| SM | -139543952. | 0.000 | 162390240. |
| AV | -505594. | 0.000 | 588370. |
| MONTHLY SUMMARY (APR) | | | |
| MN | -505594. | 0.000 | 579526. |
| MX | -505594. | 0.000 | 664926. |
| SM | -127409696. | 0.000 | 149355840. |
| AV | -505594. | 0.000 | 592682. |
| MONTHLY SUMMARY (MAY) | | | |
| MN | 0. | 0.000 | 539975. |
| MX | 0. | 31.714 | 654467. |
| SM | 0. | 2367.536 | 150274816. |
| AV | 0. | 9.395 | 596329. |
| MONTHLY SUMMARY (JUN) | | | |
| MN | 0. | 0.000 | 545577. |
| MX | 0. | 58.995 | 667936. |
| SM | 0. | 6899.813 | 158572176. |
| AV | 0. | 26.136 | 600652. |
| MONTHLY SUMMARY (JUL) | | | |
| MN | 0. | 0.000 | 548255. |
| MX | 0. | 61.069 | 645462. |
| SM | 0. | 8638.538 | 144734224. |
| AV | 0. | 35.994 | 603059. |

H-1

| | AHU-7 | AHU-7 | AHU-7 |
|-----------------------|-------------------------------|---------------------------|-------------------------------|
| | HEATING CAPACITY BTU/HR | COOLING ELECTRIC KW | COOLING CAPACITY BTU/HR |
| | ---- (78) | ---- (47) | ---- (70) |
| MONTHLY SUMMARY (AUG) | | | |
| MN | 0. | 0.000 | 558335. |
| MX | 0. | 58.273 | 652224. |
| SM | 0. | 9330.791 | 165860944. |
| AV | 0. | 33.807 | 600945. |
| MONTHLY SUMMARY (SEP) | | | |
| MN | 0. | 0.000 | 556999. |
| MX | 0. | 55.176 | 636438. |
| SM | 0. | 5065.606 | 150163952. |
| AV | 0. | 20.102 | 595889. |
| MONTHLY SUMMARY (OCT) | | | |
| MN | -505594. | 0.000 | 565135. |
| MX | 0. | 28.077 | 634217. |
| SM | -66738412. | 2571.572 | 142356288. |
| AV | -278077. | 10.715 | 593151. |
| MONTHLY SUMMARY (NOV) | | | |
| MN | -505594. | 0.000 | 588302. |
| MX | -505594. | 0.000 | 724427. |
| SM | -121342568. | 0.000 | 144583184. |
| AV | -505594. | 0.000 | 602430. |
| MONTHLY SUMMARY (DEC) | | | |
| MN | -505594. | 0.000 | 588302. |
| MX | -505594. | 0.000 | 604352. |
| SM | -127409696. | 0.000 | 148304416. |
| AV | -505594. | 0.000 | 588510. |
| YEARLY SUMMARY | | | |
| MN | -505594. | 0.000 | 539975. |
| MX | 0. | 61.069 | 724427. |
| SM | -825129472. | 34873.855 | 1799009280. |
| AV | -272860. | 11.532 | 594911. |

EMTECH ENGINEERING
READING, PA 19603
REPORT- PV-A EQUIPMENT SIZES

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
FT. GEORGE G. MEADE

DOE-2.1D 6/ 7/1996 9:43:16 PDL RUN 1
EMCS STUDY

WEATHER FILE- BALTIMORE, MD

EQUIPMENT NUMBER NUMBER NUMBER NUMBER NUMBER NUMBER
 SIZE INSTD SIZE INSTD SIZE INSTD SIZE INSTD SIZE INSTD SIZE INSTD
 (MBTU/H) AVAIL (MBTU/H) AVAIL (MBTU/H) AVAIL (MBTU/H) AVAIL (MBTU/H) AVAIL (MBTU/H) AVAIL

HW-BOILER 2.500 2 2

| S I T E E N E R G Y | | | | | | | | | | | | | SOURCE |
|-----------------------|-----------------------|--------------------------|-------------------------|------------------|-----------------------------|--------------------------|--------------------------|--------------------------|--------------------------|------------------------|------------------------|-------------------------|---------------------------|
| MONTH | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| | TOTAL HEAT LOAD | TOTAL COOLING LOAD | TOTAL ELECTR LOAD | RCVRED ENERGY | WASTED RCVRABL ENERGY | FUEL INPUT COOLING | ELEC INPUT COOLING | FUEL INPUT HEATING | ELEC INPUT HEATING | FUEL INPUT ELECT | TOTAL FUEL INPUT | TOTAL SITE ENERGY | TOTAL SOURCE ENERGY |
| JAN | 276.3 | 0.0 | 269.1 78.8E | 0.0 | 0.0 | 0.0 | 0.0 | 416.5 | 30.3 8.9E | 0.0 | 416.5 | 685.7 | 1224.8 |
| FEB | 229.2 | 0.0 | 241.8 70.8E | 0.0 | 0.0 | 0.0 | 0.0 | 346.1 | 26.2 7.7E | 0.0 | 346.1 | 587.9 | 1072.3 |
| MAR | 152.4 | 0.0 | 276.0 80.8E | 0.0 | 0.0 | 0.0 | 0.0 | 241.4 | 24.6 7.2E | 0.0 | 241.4 | 517.3 | 1070.2 |
| APR | 91.4 | 0.0 | 252.1 73.8E | 0.0 | 0.0 | 0.0 | 0.0 | 148.3 | 20.1 5.9E | 0.0 | 148.3 | 400.4 | 905.4 |
| MAY | 0.0 | 0.0 | 301.0 88.1E | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 301.0 | 903.8 |
| JUN | 0.0 | 0.0 | 356.8 104.5E | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 356.8 | 1071.4 |
| JUL | 0.0 | 0.0 | 375.7 110.0E | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 375.7 | 1128.4 |
| AUG | 0.0 | 0.0 | 402.6 117.9E | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 402.6 | 1209.1 |
| SEP | 0.0 | 0.0 | 331.0 96.9E | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 331.0 | 994.0 |
| OCT | 66.0 | 0.0 | 296.7 86.9E | 0.0 | 0.0 | 0.0 | 0.0 | 106.3 | 12.0 3.5E | 0.0 | 106.3 | 403.0 | 997.4 |
| NOV | 97.9 | 0.0 | 243.7 71.4E | 0.0 | 0.0 | 0.0 | 0.0 | 156.2 | 20.1 5.9E | 0.0 | 156.2 | 399.9 | 888.0 |
| DEC | 215.6 | 0.0 | 264.4 77.4E | 0.0 | 0.0 | 0.0 | 0.0 | 331.5 | 27.6 8.1E | 0.0 | 331.5 | 595.9 | 1125.4 |
| | 1128.9 | 0.0 | 3611.0 1057.6E | 0.0 | 0.0 | 0.0 | 0.0 | 1746.3 | 160.9 47.1E | 0.0 | 1746.3 | 5357.3 | 12590.1 |

NOTE-- ALL ENTRIES ARE IN MBTU EXCEPT
 ENTRIES FOLLOWED BY E ARE IN MWH (THOUSANDS OF KWH)

| MO | UTILITY- | ELECTRICITY | NATURAL-GAS |
|-----|--------------|-------------|-------------|
| | TOTAL (MBTU) | 269.147 | 416.540 |
| JAN | PEAK (KBTU) | 1007.105 | 2463.224 |
| | DY/HR | 31/17 | 31/ 7 |
| | TOTAL (MBTU) | 241.825 | 346.084 |
| FEB | PEAK (KBTU) | 1007.105 | 2423.216 |
| | DY/HR | 25/ 9 | 14/ 7 |
| | TOTAL (MBTU) | 275.990 | 241.357 |
| MAR | PEAK (KBTU) | 1007.105 | 2280.586 |
| | DY/HR | 22/ 9 | 7/ 7 |
| | TOTAL (MBTU) | 252.107 | 148.308 |
| APR | PEAK (KBTU) | 999.805 | 1513.532 |
| | DY/HR | 11/ 8 | 11/ 7 |
| | TOTAL (MBTU) | 300.956 | 0.000 |
| MAY | PEAK (KBTU) | 1351.324 | 0.000 |
| | DY/HR | 6/16 | 31/ 1 |
| | TOTAL (MBTU) | 356.773 | 0.000 |
| JUN | PEAK (KBTU) | 1666.097 | 0.000 |
| | DY/HR | 10/16 | 30/ 1 |
| | TOTAL (MBTU) | 375.743 | 0.000 |
| JUL | PEAK (KBTU) | 1693.110 | 0.000 |
| | DY/HR | 25/14 | 31/ 1 |
| | TOTAL (MBTU) | 402.629 | 0.000 |
| AUG | PEAK (KBTU) | 1690.648 | 0.000 |
| | DY/HR | 18/17 | 31/ 1 |
| | TOTAL (MBTU) | 331.013 | 0.000 |
| SEP | PEAK (KBTU) | 1652.493 | 0.000 |
| | DY/HR | 2/14 | 30/ 1 |
| | TOTAL (MBTU) | 296.738 | 106.290 |
| OCT | PEAK (KBTU) | 1349.810 | 1725.433 |
| | DY/HR | 13/16 | 24/ 7 |
| | TOTAL (MBTU) | 243.684 | 156.248 |
| NOV | PEAK (KBTU) | 1007.105 | 2087.124 |
| | DY/HR | 28/ 9 | 25/ 7 |
| | TOTAL (MBTU) | 264.380 | 331.491 |
| DEC | PEAK (KBTU) | 1007.105 | 2330.328 |
| | DY/HR | 27/10 | 12/ 7 |
| | ONE YEAR | 3610.983 | 1746.318 |
| | USE/PEAK | 1693.110 | 2463.224 |

ENTECH ENGINEERING
READING, PA 19603
REPORT- PS-D PLANT LOADS SATISFIED

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
FT. GEORGE G. MRADE

DOB-2.1D 6/ 7/1996 9:43:16 PDL RUN 1
EMCS STUDY

WEATHER FILE- BALTIMORE, MD

(CONTINUED)

SUMMARY OF LOADS MET

| TYPE OF LOAD | TOTAL LOAD (MBTU) | LOAD SATISFIED (MBTU) | TOTAL OVERLOAD (MBTU) | PEAK OVERLOAD (MBTU) | HOURS OVERLOADED |
|------------------|-------------------------|-----------------------------|-----------------------------|----------------------------|---------------------|
| HEATING LOADS | 1128.9 | 1128.9 | 0.000 | 0.000 | 0 |
| ELECTRICAL LOADS | 3611.1 | 3611.0 | 0.000 | 0.000 | 0 |

| EQUIPMENT | AVG OPER RATIO | MAX LOAD (MBTU) | MON | | SIZE OPER | | SIZE OPER | | SIZE OPER | | SIZE OPER | | SIZE OPER | |
|-----------|----------------------|-----------------------|-----|----|-----------|-------|-----------|-----|-----------|-----|-----------|-----|-----------|-----|
| | | | DAY | HR | (MBTU) | HRS | (MBTU) | HRS | (MBTU) | HRS | (MBTU) | HRS | (MBTU) | HRS |
| HW-BOILER | 0.096 | 1.883 | 1 | 31 | 7 | 2.500 | 4728 | | | | | | | |

ENTECH ENGINEERING
READING, PA 19603
REPORT- PS-I EQUIPMENT LIFE CYCLE COSTS

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
PT. GEORGE G. MEADE

DOE-2.1D 6/ 7/1996 9:43:16 PDL RUN 1
EMCS STUDY
WEATHER FILE- BALTIMORE, MD

E Q U I P M E N T T O T A L S

| | | | |
|-----------------------|-------|-------|-------|
| HW-BOILER | 140.6 | | |
| NOMINAL SIZE (MBTU) | | 2.500 | |
| NUMBER INSTALLED | | 2 | |
| FIRST COST (K\$) | 131.1 | 131.1 | |
| ANNUAL COST (K\$) | 4.2 | 4.2 | |
| CYCLICAL COST (K\$) | 5.4 | 5.4 | |
| -----TOTAL----- (K\$) | | | 140.6 |
| ----- | | | |
| EQUIPMENT TOTAL | 140.6 | | |

| ENERGY TYPE | ELECTRICITY | NATURAL-GAS |
|-----------------|-------------|-------------|
| IN SITE MBTU - | | |
| CATEGORY OF USE | | |
| SPACE HEAT | 80.55 | 1746.31 |
| SPACE COOL | 571.77 | 0.00 |
| HVAC AUX | 584.51 | 0.00 |
| DOM HOT WTR | 0.00 | 0.00 |
| AUX SOLAR | 0.00 | 0.00 |
| LIGHTS | 1721.74 | 0.00 |
| VERT TRANS | 0.00 | 0.00 |
| MISC EQUIP | 652.34 | 0.00 |
| TOTAL | 3610.92 | 1746.31 |

TOTAL SITE ENERGY 5357.30 MBTU 61.9 KBTU/SQFT-YR GROSS-AREA 61.9 KBTU/SQFT-YR NET-AREA
 TOTAL SOURCE ENERGY 12590.11 MBTU 145.4 KBTU/SQFT-YR GROSS-AREA 145.4 KBTU/SQFT-YR NET-AREA

PERCENT OF HOURS ANY SYSTEM ZONE OUTSIDE OF THROTTLING RANGE = 43.7
 PERCENT OF HOURS ANY PLANT LOAD NOT SATISFIED = 0.0

NOTE ELECTRICITY AND/OR FUEL USED TO GENERATE ELECTRICITY IS APPORTIONED BASED
 ON THE YEARLY DEMAND. ALL OTHER ENERGY TYPES ARE APPORTIONED HOURLY.

| MDDDH | HW-BOILE R LOAD BTU/HR | HW-BOILE R ELCTRIC USE BTU/HR | HW-BOILE R FUEL USE BTU/HR |
|-----------------------|---------------------------------|-------------------------------------------|----------------------------------------|
| | ---- (1) | ---- (3) | ---- (4) |
| MONTHLY SUMMARY (JAN) | | | |
| MN | 34703. | 3054. | 56709. |
| MX | 1882698. | 55000. | 2463224. |
| SM | 276315776. | 17672312. | 416540992. |
| AV | 371392. | 23753. | 559867. |
| MONTHLY SUMMARY (FEB) | | | |
| MN | 34703. | 3054. | 56709. |
| MX | 1846262. | 55000. | 2423216. |
| SM | 229214032. | 14753322. | 346084640. |
| AV | 341092. | 21954. | 515007. |
| MONTHLY SUMMARY (MAR) | | | |
| MN | 34703. | 3054. | 56709. |
| MX | 1717133. | 55000. | 2280586. |
| SM | 152394224. | 11935420. | 241357792. |
| AV | 204831. | 16042. | 324406. |
| MONTHLY SUMMARY (APR) | | | |
| MN | 34703. | 3054. | 56709. |
| MX | 1042185. | 55000. | 1513532. |
| SM | 91407888. | 7834393. | 148307616. |
| AV | 126955. | 10881. | 205983. |
| MONTHLY SUMMARY (MAY) | | | |
| MN | 0. | 0. | 0. |
| MX | 0. | 0. | 0. |
| SM | 0. | 0. | 0. |
| AV | 0. | 0. | 0. |
| MONTHLY SUMMARY (JUN) | | | |
| MN | 0. | 0. | 0. |
| MX | 0. | 0. | 0. |
| SM | 0. | 0. | 0. |
| AV | 0. | 0. | 0. |
| MONTHLY SUMMARY (JUL) | | | |
| MN | 0. | 0. | 0. |
| MX | 0. | 0. | 0. |
| SM | 0. | 0. | 0. |
| AV | 0. | 0. | 0. |

| | HW-BOILE R LOAD BTU/HR | HW-BOILE R ELECTRIC USE BTU/HR | HW-BOILE R FUEL USE BTU/HR |
|-----------------------|---------------------------------|--------------------------------------------|----------------------------------------|
| | ---- (1) | ---- (3) | ---- (4) |
| MONTHLY SUMMARY (AUG) | | | |
| MN | 0. | 0. | 0. |
| MX | 0. | 0. | 0. |
| SM | 0. | 0. | 0. |
| AV | 0. | 0. | 0. |
| MONTHLY SUMMARY (SEP) | | | |
| MN | 0. | 0. | 0. |
| MX | 0. | 0. | 0. |
| SM | 0. | 0. | 0. |
| AV | 0. | 0. | 0. |
| MONTHLY SUMMARY (OCT) | | | |
| MN | 0. | 0. | 0. |
| MX | 1225495. | 55000. | 1725433. |
| SM | 66021264. | 5498009. | 106289792. |
| AV | 88738. | 7390. | 142863. |
| MONTHLY SUMMARY (NOV) | | | |
| MN | 34703. | 3054. | 56709. |
| MX | 1543867. | 55000. | 2087124. |
| SM | 97928032. | 7884482. | 156247968. |
| AV | 136011. | 10951. | 217011. |
| MONTHLY SUMMARY (DEC) | | | |
| MN | 34703. | 3054. | 56709. |
| MX | 1762030. | 55000. | 2330328. |
| SM | 215616416. | 14979754. | 331492032. |
| AV | 289807. | 20134. | 445554. |
| YEARLY SUMMARY | | | |
| MN | 0. | 0. | 0. |
| MX | 1882698. | 55000. | 2463224. |
| SM | 1128897536. | 80557688. | 1746320896. |
| AV | 128870. | 9196. | 199352. |

BLDG. #552
 N/SETBACK VENT CONTROL &
 ECONOM. ZER
 FILE FTM4552N

| MMDDHH | AHU-1 | AHU-1 | AHU-1 | AHU-1 | AHU-1 | AHU-2 | AHU-2 | AHU-2 |
|-----------------------|-------------------------------|--------------------------|-------------------------------|---------------------------|-------------------------------|-------------------------------|--------------------------|-------------------------------|
| | TOT HTG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | HEATING CAPACITY BTU/HR | COOLING ELECTRIC KW | COOLING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | HEATING CAPACITY BTU/HR |
| | ---- (5) | ---- (49) | ---- (78) | ---- (47) | ---- (70) | ---- (5) | ---- (49) | ---- (78) |
| MONTHLY SUMMARY (JAN) | | | | | | | | |
| MN | -83819. | 1.819 | -114675. | 0.000 | 112264. | -83819. | 1.819 | -114675. |
| MX | -21601. | 1.819 | -114675. | 0.000 | 112264. | -21601. | 1.819 | -114675. |
| SM | -11202634. | 458.451 | -28898172. | 0.000 | 28290524. | -11202634. | 458.451 | -28898172. |
| AV | -44455. | 1.819 | -114675. | 0.000 | 112264. | -44455. | 1.819 | -114675. |
| MONTHLY SUMMARY (FEB) | | | | | | | | |
| MN | -90551. | 1.819 | -114675. | 0.000 | 112264. | -90551. | 1.819 | -114675. |
| MX | -27892. | 1.819 | -114675. | 0.000 | 112264. | -27892. | 1.819 | -114675. |
| SM | -12216512. | 414.789 | -26145964. | 0.000 | 25596188. | -12216512. | 414.789 | -26145964. |
| AV | -53581. | 1.819 | -114675. | 0.000 | 112264. | -53581. | 1.819 | -114675. |
| MONTHLY SUMMARY (MAR) | | | | | | | | |
| MN | -89679. | 1.819 | -114675. | 0.000 | 109484. | -89679. | 1.819 | -114675. |
| MX | -27332. | 1.819 | -114675. | 0.000 | 115623. | -27332. | 1.819 | -114675. |
| SM | -14677470. | 502.113 | -31650380. | 0.000 | 30980110. | -14677470. | 502.113 | -31650380. |
| AV | -53179. | 1.819 | -114675. | 0.000 | 112247. | -53179. | 1.819 | -114675. |
| MONTHLY SUMMARY (APR) | | | | | | | | |
| MN | -86891. | 1.819 | -114675. | 0.000 | 105153. | -86891. | 1.819 | -114675. |
| MX | -20566. | 1.819 | -114675. | 0.000 | 119580. | -20566. | 1.819 | -114675. |
| SM | -11836402. | 458.451 | -28898172. | 0.000 | 28297574. | -11836402. | 458.451 | -28898172. |
| AV | -46970. | 1.819 | -114675. | 0.000 | 112292. | -46970. | 1.819 | -114675. |
| MONTHLY SUMMARY (MAY) | | | | | | | | |
| MN | 0. | 1.819 | 0. | 0.000 | 103042. | 0. | 1.819 | 0. |
| MX | 0. | 1.819 | 0. | 0.000 | 124901. | 0. | 1.819 | 0. |
| SM | 0. | 458.451 | 0. | 0.000 | 28460458. | 0. | 458.451 | 0. |
| AV | 0. | 1.819 | 0. | 0.000 | 112938. | 0. | 1.819 | 0. |
| MONTHLY SUMMARY (JUN) | | | | | | | | |
| MN | 0. | 1.819 | 0. | 0.000 | 100601. | 0. | 1.819 | 0. |
| MX | 0. | 1.819 | 0. | 2.792 | 132884. | 0. | 1.819 | 0. |
| SM | 0. | 480.282 | 0. | 61.953 | 30513324. | 0. | 480.282 | 0. |
| AV | 0. | 1.819 | 0. | 0.235 | 115581. | 0. | 1.819 | 0. |
| MONTHLY SUMMARY (JUL) | | | | | | | | |
| MN | 0. | 1.819 | 0. | 0.000 | 102925. | 0. | 1.819 | 0. |
| MX | 0. | 1.819 | 0. | 4.490 | 137124. | 0. | 1.819 | 0. |
| SM | 0. | 436.620 | 0. | 517.004 | 27377080. | 0. | 436.620 | 0. |
| AV | 0. | 1.819 | 0. | 2.154 | 114071. | 0. | 1.819 | 0. |

| | AHU-1 | AHU-1 | AHU-1 | AHU-1 | AHU-1 | AHU-2 | AHU-2 | AHU-2 |
|-----------------------|-------------------------------|--------------------------|-------------------------------|---------------------------|-------------------------------|-------------------------------|--------------------------|-------------------------------|
| | TOT HTG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | HEATING CAPACITY BTU/HR | COOLING ELECTRIC KW | COOLING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | HEATING CAPACITY BTU/HR |
| | ---- (5) | ----(49) | ----(78) | ----(47) | ----(70) | ----(5) | ----(49) | ----(78) |
| MONTHLY SUMMARY (AUG) | | | | | | | | |
| MN | 0. | 1.819 | 0. | 0.000 | 102458. | 0. | 1.819 | 0. |
| MX | 0. | 1.819 | 0. | 5.650 | 136956. | 0. | 1.819 | 0. |
| SM | 0. | 502.113 | 0. | 926.793 | 30656338. | 0. | 502.113 | 0. |
| AV | 0. | 1.819 | 0. | 3.358 | 111074. | 0. | 1.819 | 0. |
| MONTHLY SUMMARY (SEP) | | | | | | | | |
| MN | 0. | 1.819 | 0. | 0.000 | 102427. | 0. | 1.819 | 0. |
| MX | 0. | 1.819 | 0. | 5.730 | 128805. | 0. | 1.819 | 0. |
| SM | 0. | 458.451 | 0. | 676.874 | 28136698. | 0. | 458.451 | 0. |
| AV | 0. | 1.819 | 0. | 2.686 | 111654. | 0. | 1.819 | 0. |
| MONTHLY SUMMARY (OCT) | | | | | | | | |
| MN | -42477. | 1.819 | -114675. | 0.000 | 107301. | -42477. | 1.819 | -114675. |
| MX | 0. | 1.819 | 0. | 4.866 | 120454. | 0. | 1.819 | 0. |
| SM | -1574380. | 436.620 | -15137134. | 595.152 | 27050626. | -1574380. | 436.620 | -15137134. |
| AV | -6560. | 1.819 | -63071. | 2.480 | 112711. | -6560. | 1.819 | -63071. |
| MONTHLY SUMMARY (NOV) | | | | | | | | |
| MN | -65205. | 1.819 | -114675. | 0.000 | 112264. | -65205. | 1.819 | -114675. |
| MX | -15. | 1.819 | -114675. | 0.000 | 133119. | -15. | 1.819 | -114675. |
| SM | -2061848. | 436.620 | -27522068. | 0.000 | 27372160. | -2061848. | 436.620 | -27522068. |
| AV | -8591. | 1.819 | -114675. | 0.000 | 114051. | -8591. | 1.819 | -114675. |
| MONTHLY SUMMARY (DEC) | | | | | | | | |
| MN | -78847. | 1.819 | -114675. | 0.000 | 112264. | -78847. | 1.819 | -114675. |
| MX | -4641. | 1.819 | -114675. | 0.000 | 114949. | -4641. | 1.819 | -114675. |
| SM | -6910441. | 458.451 | -28898172. | 0.000 | 28298120. | -6910441. | 458.451 | -28898172. |
| AV | -27422. | 1.819 | -114675. | 0.000 | 112294. | -27422. | 1.819 | -114675. |
| YEARLY SUMMARY | | | | | | | | |
| MN | -90551. | 1.819 | -114675. | 0.000 | 100601. | -90551. | 1.819 | -114675. |
| MX | 0. | 1.819 | 0. | 5.730 | 137124. | 0. | 1.819 | 0. |
| SM | -60479684. | 5501.409 | -187150064. | 2777.775 | 341029216. | -60479684. | 5501.409 | -187150064. |
| AV | -20000. | 1.819 | -61888. | 0.919 | 112774. | -20000. | 1.819 | -61888. |

| MMDDHH | AHU-2 | AHU-2 | AHU-3 | AHU-3 | AHU-3 | AHU-3 | AHU-3 | AHU-4 |
|-----------------------|---------------------------|-------------------------------|-------------------------------|--------------------------|-------------------------------|---------------------------|-------------------------------|-------------------------------|
| | COOLING ELECTRIC KW | COOLING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | HEATING CAPACITY BTU/HR | COOLING ELECTRIC KW | COOLING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR |
| | ----(47) | ----(70) | ----(5) | ----(49) | ----(78) | ----(47) | ----(70) | ----(5) |
| MONTHLY SUMMARY (JAN) | | | | | | | | |
| MN | 0.000 | 112264. | -148625. | 3.527 | -222322. | 0.000 | 234782. | -144848. |
| MX | 0.000 | 112264. | -16. | 3.527 | -222322. | 0.000 | 472221. | -16. |
| SM | 0.000 | 28290524. | -8565438. | 888.803 | -56025148. | 0.000 | 61956480. | -8259521. |
| AV | 0.000 | 112264. | -33990. | 3.527 | -222322. | 0.000 | 245859. | -32776. |
| MONTHLY SUMMARY (FEB) | | | | | | | | |
| MN | 0.000 | 112264. | -161605. | 3.527 | -222322. | 0.000 | 234782. | -155989. |
| MX | 0.000 | 112264. | -14. | 3.527 | -222322. | 0.000 | 319043. | -14. |
| SM | 0.000 | 25596188. | -6474000. | 804.155 | -50689420. | 0.000 | 55332020. | -6277172. |
| AV | 0.000 | 112264. | -28395. | 3.527 | -222322. | 0.000 | 242684. | -27531. |
| MONTHLY SUMMARY (MAR) | | | | | | | | |
| MN | 0.000 | 109484. | -139761. | 3.527 | -222322. | 0.000 | 234782. | -134687. |
| MX | 0.000 | 115623. | -7. | 3.527 | -222322. | 0.000 | 374223. | -7. |
| SM | 0.000 | 30980110. | -2767599. | 973.451 | -61360876. | 0.000 | 68871288. | -2676990. |
| AV | 0.000 | 112247. | -10028. | 3.527 | -222322. | 0.000 | 249534. | -9699. |
| MONTHLY SUMMARY (APR) | | | | | | | | |
| MN | 0.000 | 105153. | -67468. | 3.527 | -222322. | 0.000 | 233790. | -65995. |
| MX | 0.000 | 119580. | 0. | 3.527 | -222322. | 0.000 | 365161. | 0. |
| SM | 0.000 | 28297574. | -261345. | 888.803 | -56025148. | 0.000 | 66663088. | -266924. |
| AV | 0.000 | 112292. | -1037. | 3.527 | -222322. | 0.000 | 264536. | -1059. |
| MONTHLY SUMMARY (MAY) | | | | | | | | |
| MN | 0.000 | 103042. | 0. | 3.527 | 0. | 0.000 | 215495. | 0. |
| MX | 0.000 | 124901. | 0. | 3.527 | 0. | 13.389 | 357439. | 0. |
| SM | 0.000 | 28460458. | 0. | 888.803 | 0. | 1267.856 | 62796612. | 0. |
| AV | 0.000 | 112938. | 0. | 3.527 | 0. | 5.031 | 249193. | 0. |
| MONTHLY SUMMARY (JUN) | | | | | | | | |
| MN | 0.000 | 100601. | 0. | 3.527 | 0. | 0.000 | 213354. | 0. |
| MX | 2.792 | 132884. | 0. | 3.527 | 0. | 18.907 | 334942. | 0. |
| SM | 61.953 | 30513324. | 0. | 931.127 | 0. | 2804.919 | 63814452. | 0. |
| AV | 0.235 | 115581. | 0. | 3.527 | 0. | 10.625 | 241721. | 0. |
| MONTHLY SUMMARY (JUL) | | | | | | | | |
| MN | 0.000 | 102925. | 0. | 3.527 | 0. | 0.000 | 219251. | 0. |
| MX | 4.490 | 137124. | 0. | 3.527 | 0. | 19.105 | 329984. | 0. |
| SM | 517.004 | 27377080. | 0. | 846.479 | 0. | 3225.994 | 56497608. | 0. |
| AV | 2.154 | 114071. | 0. | 3.527 | 0. | 13.442 | 235407. | 0. |

| | AHU-2 | AHU-2 | AHU-3 | AHU-3 | AHU-3 | AHU-3 | AHU-3 | AHU-4 |
|-----------------------|---------------------------|-------------------------------|-------------------------------|--------------------------|-------------------------------|---------------------------|-------------------------------|-------------------------------|
| | COOLING ELECTRIC KW | COOLING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | HEATING CAPACITY BTU/HR | COOLING ELECTRIC KW | COOLING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR |
| | ----(47) | ----(70) | ----(5) | ----(49) | ----(78) | ----(47) | ----(70) | ----(5) |
| MONTHLY SUMMARY (AUG) | | | | | | | | |
| MN | 0.000 | 102458. | 0. | 3.527 | 0. | 0.000 | 219254. | 0. |
| MX | 5.650 | 136956. | 0. | 3.527 | 0. | 18.797 | 329168. | 0. |
| SM | 926.793 | 30656338. | 0. | 973.451 | 0. | 3505.275 | 64963236. | 0. |
| AV | 3.358 | 111074. | 0. | 3.527 | 0. | 12.700 | 235374. | 0. |
| MONTHLY SUMMARY (SEP) | | | | | | | | |
| MN | 0.000 | 102427. | 0. | 3.527 | 0. | 0.000 | 215361. | 0. |
| MX | 5.730 | 128805. | 0. | 3.527 | 0. | 17.432 | 349757. | 0. |
| SM | 676.874 | 28136698. | 0. | 888.803 | 0. | 2173.011 | 61972980. | 0. |
| AV | 2.686 | 111654. | 0. | 3.527 | 0. | 8.623 | 245925. | 0. |
| MONTHLY SUMMARY (OCT) | | | | | | | | |
| MN | 0.000 | 107301. | -82529. | 3.527 | -222322. | 0.000 | 228423. | -78745. |
| MX | 4.866 | 120454. | 0. | 3.527 | 0. | 12.477 | 324055. | 0. |
| SM | 595.152 | 27050626. | -2862024. | 846.479 | -29346506. | 1441.933 | 58819040. | -2674319. |
| AV | 2.480 | 112711. | -11925. | 3.527 | -122277. | 6.008 | 245079. | -11143. |
| MONTHLY SUMMARY (NOV) | | | | | | | | |
| MN | 0.000 | 112264. | -124775. | 3.527 | -222322. | 0.000 | 234782. | -121218. |
| MX | 0.000 | 133119. | 0. | 3.527 | -222322. | 0.000 | 331492. | 0. |
| SM | 0.000 | 27372160. | -1709644. | 846.479 | -53357284. | 0.000 | 61868776. | -1589601. |
| AV | 0.000 | 114051. | -7124. | 3.527 | -222322. | 0.000 | 257787. | -6623. |
| MONTHLY SUMMARY (DEC) | | | | | | | | |
| MN | 0.000 | 112264. | -136976. | 3.527 | -222322. | 0.000 | 234782. | -132934. |
| MX | 0.000 | 114949. | -14. | 3.527 | -222322. | 0.000 | 323013. | -14. |
| SM | 0.000 | 28298120. | -6832626. | 888.803 | -56025148. | 0.000 | 61688268. | -6589198. |
| AV | 0.000 | 112294. | -27114. | 3.527 | -222322. | 0.000 | 244795. | -26148. |
| YEARLY SUMMARY | | | | | | | | |
| MN | 0.000 | 100601. | -161605. | 3.527 | -222322. | 0.000 | 213354. | -155989. |
| MX | 5.730 | 137124. | 0. | 3.527 | 0. | 19.105 | 472221. | 0. |
| SM | 2777.775 | 341029216. | -29472674. | 10665.638 | -362829536. | 14418.987 | 745243840. | -28333724. |
| AV | 0.919 | 112774. | -9746. | 3.527 | -119983. | 4.768 | 246443. | -9370. |

| MMDDHH | AHU-4 | AHU-4 | AHU-4 | AHU-4 | AHU-5 | AHU-5 | AHU-5 | AHU-5 |
|-----------------------|--------------------------|-------------------------------|---------------------------|-------------------------------|-------------------------------|--------------------------|-------------------------------|---------------------------|
| | SUPPLY ELECTRIC KW | HEATING CAPACITY BTU/HR | COOLING ELECTRIC KW | COOLING CAPACITY BTU/HR | TOT BTG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | HEATING CAPACITY BTU/HR | COOLING ELECTRIC KW |
| | ---- (49) | ---- (78) | ---- (47) | ---- (70) | ---- (5) | ---- (49) | ---- (78) | ---- (47) |
| MONTHLY SUMMARY (JAN) | | | | | | | | |
| MN | 3.427 | -216033. | 0.000 | 228191. | -272975. | 7.066 | -445384. | 0.000 |
| MX | 3.427 | -216033. | 0.000 | 457880. | -14. | 7.066 | -445384. | 0.000 |
| SM | 863.662 | -54440408. | 0.000 | 60189968. | -13383163. | 1780.563 | -112236760. | 0.000 |
| AV | 3.427 | -216033. | 0.000 | 238849. | -53108. | 7.066 | -445384. | 0.000 |
| MONTHLY SUMMARY (FEB) | | | | | | | | |
| MN | 3.427 | -216033. | 0.000 | 228191. | -298075. | 7.066 | -445384. | 0.000 |
| MX | 3.427 | -216033. | 0.000 | 309586. | -13. | 7.066 | -445384. | 0.000 |
| SM | 781.409 | -49255608. | 0.000 | 53760560. | -10164425. | 1610.985 | -101547544. | 0.000 |
| AV | 3.427 | -216033. | 0.000 | 235792. | -44581. | 7.066 | -445384. | 0.000 |
| MONTHLY SUMMARY (MAR) | | | | | | | | |
| MN | 3.427 | -216033. | 0.000 | 228191. | -255651. | 7.066 | -445384. | 0.000 |
| MX | 3.427 | -216033. | 0.000 | 363062. | -5. | 7.066 | -445384. | 0.000 |
| SM | 945.916 | -59625208. | 0.000 | 66914280. | -3800789. | 1950.140 | -122925976. | 0.000 |
| AV | 3.427 | -216033. | 0.000 | 242443. | -13771. | 7.066 | -445384. | 0.000 |
| MONTHLY SUMMARY (APR) | | | | | | | | |
| MN | 3.427 | -216033. | 0.000 | 227142. | -112012. | 7.066 | -445384. | 0.000 |
| MX | 3.427 | -216033. | 0.000 | 354195. | 0. | 7.066 | -445384. | 0.000 |
| SM | 863.662 | -54440408. | 0.000 | 64730596. | -262378. | 1780.563 | -112236760. | 0.000 |
| AV | 3.427 | -216033. | 0.000 | 256867. | -1041. | 7.066 | -445384. | 0.000 |
| MONTHLY SUMMARY (MAY) | | | | | | | | |
| MN | 3.427 | 0. | 0.000 | 209446. | 0. | 7.066 | 0. | 0.000 |
| MX | 3.427 | 0. | 12.793 | 346894. | 0. | 7.066 | 0. | 26.795 |
| SM | 863.662 | 0. | 1228.734 | 60995752. | 0. | 1780.563 | 0. | 2709.773 |
| AV | 3.427 | 0. | 4.876 | 242047. | 0. | 7.066 | 0. | 10.753 |
| MONTHLY SUMMARY (JUN) | | | | | | | | |
| MN | 3.427 | 0. | 0.000 | 207736. | 0. | 7.066 | 0. | 0.000 |
| MX | 3.427 | 0. | 18.326 | 308316. | 0. | 7.066 | 0. | 37.740 |
| SM | 904.789 | 0. | 2716.903 | 61964784. | 0. | 1865.352 | 0. | 5697.487 |
| AV | 3.427 | 0. | 10.291 | 234715. | 0. | 7.066 | 0. | 21.581 |
| MONTHLY SUMMARY (JUL) | | | | | | | | |
| MN | 3.427 | 0. | 0.000 | 213063. | 0. | 7.066 | 0. | 0.000 |
| MX | 3.427 | 0. | 18.547 | 320339. | 0. | 7.066 | 0. | 38.054 |
| SM | 822.535 | 0. | 3103.662 | 54960016. | 0. | 1695.774 | 0. | 6396.543 |
| AV | 3.427 | 0. | 12.932 | 229000. | 0. | 7.066 | 0. | 26.652 |

| | AHU-4 | AHU-4 | AHU-4 | AHU-4 | AHU-5 | AHU-5 | AHU-5 | AHU-5 |
|-----------------------|--------------------------|-------------------------------|---------------------------|-------------------------------|-------------------------------|--------------------------|-------------------------------|---------------------------|
| | SUPPLY ELECTRIC KW | HEATING CAPACITY BTU/HR | COOLING ELECTRIC KW | COOLING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | HEATING CAPACITY BTU/HR | COOLING ELECTRIC KW |
| | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| | (49) | (78) | (47) | (70) | (5) | (49) | (78) | (47) |
| MONTHLY SUMMARY (AUG) | | | | | | | | |
| MN | 3.427 | 0. | 0.000 | 213129. | 0. | 7.066 | 0. | 0.000 |
| MX | 3.427 | 0. | 18.287 | 319551. | 0. | 7.066 | 0. | 37.553 |
| SM | 945.916 | 0. | 3428.831 | 63124724. | 0. | 1950.140 | 0. | 7059.287 |
| AV | 3.427 | 0. | 12.423 | 228713. | 0. | 7.066 | 0. | 25.577 |
| MONTHLY SUMMARY (SEP) | | | | | | | | |
| MN | 3.427 | 0. | 0.000 | 209413. | 0. | 7.066 | 0. | 0.000 |
| MX | 3.427 | 0. | 17.018 | 339507. | 0. | 7.066 | 0. | 34.906 |
| SM | 863.662 | 0. | 2126.070 | 60250520. | 0. | 1780.563 | 0. | 4475.320 |
| AV | 3.427 | 0. | 8.437 | 239089. | 0. | 7.066 | 0. | 17.759 |
| MONTHLY SUMMARY (OCT) | | | | | | | | |
| MN | 3.427 | -216033. | 0.000 | 221973. | -153414. | 7.066 | -445384. | 0.000 |
| MX | 3.427 | 0. | 12.290 | 314653. | 0. | 7.066 | 0. | 25.557 |
| SM | 822.535 | -28516408. | 1422.130 | 57174192. | -4757826. | 1695.774 | -58790684. | 3012.478 |
| AV | 3.427 | -118818. | 5.926 | 238226. | -19824. | 7.066 | -244961. | 12.552 |
| MONTHLY SUMMARY (NOV) | | | | | | | | |
| MN | 3.427 | -216033. | 0.000 | 228191. | -215596. | 7.066 | -445384. | 0.000 |
| MX | 3.427 | -216033. | 0.000 | 321837. | 0. | 7.066 | -445384. | 0.000 |
| SM | 822.535 | -51848008. | 0.000 | 60127384. | -2082057. | 1695.774 | -106892152. | 0.000 |
| AV | 3.427 | -216033. | 0.000 | 250531. | -8675. | 7.066 | -445384. | 0.000 |
| MONTHLY SUMMARY (DEC) | | | | | | | | |
| MN | 3.427 | -216033. | 0.000 | 228191. | -249980. | 7.066 | -445384. | 0.000 |
| MX | 3.427 | -216033. | 0.000 | 313469. | -13. | 7.066 | -445384. | 0.000 |
| SM | 863.662 | -54440408. | 0.000 | 59932484. | -10302462. | 1780.563 | -112236760. | 0.000 |
| AV | 3.427 | -216033. | 0.000 | 237827. | -40883. | 7.066 | -445384. | 0.000 |
| YEARLY SUMMARY | | | | | | | | |
| MN | 3.427 | -216033. | 0.000 | 207736. | -298075. | 7.066 | -445384. | 0.000 |
| MX | 3.427 | 0. | 18.547 | 457880. | 0. | 7.066 | 0. | 38.054 |
| SM | 10363.945 | -352566464. | 14026.331 | 724125184. | -44753096. | 21366.754 | -726866624. | 29350.891 |
| AV | 3.427 | -116589. | 4.638 | 239459. | -14799. | 7.066 | -240366. | 9.706 |

| MMDDHH | AHU-5 | AHU-6 | AHU-6 | AHU-6 | AHU-6 | AHU-6 | AHU-7 | AHU-7 |
|-----------------------|-------------------------------|-------------------------------|--------------------------|-------------------------------|---------------------------|-------------------------------|-------------------------------|--------------------------|
| | COOLING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | HEATING CAPACITY BTU/HR | COOLING ELECTRIC KW | COOLING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR | SUPPLY ELECTRIC KW |
| | ----(70) | ----(5) | ----(49) | ----(78) | ----(47) | ----(70) | ----(5) | ----(49) |
| MONTHLY SUMMARY (JAN) | | | | | | | | |
| MN | 469216. | -313944. | 8.087 | -509750. | 0.000 | 532162. | -460734. | 9.184 |
| MX | 942566. | -15. | 8.087 | -509750. | 0.000 | 1067654. | -29291. | 9.184 |
| SM | 123923376. | -18100394. | 2037.887 | -128457008. | 0.000 | 140421984. | -47300000. | 2314.437 |
| AV | 491759. | -71827. | 8.087 | -509750. | 0.000 | 557230. | -187698. | 9.184 |
| MONTHLY SUMMARY (FEB) | | | | | | | | |
| MN | 469216. | -327433. | 8.087 | -509750. | 0.000 | 532162. | -459293. | 9.184 |
| MX | 637039. | -13. | 8.087 | -509750. | 0.000 | 722336. | -17. | 9.184 |
| SM | 110693800. | -13067940. | 1843.803 | -116223008. | 0.000 | 125471680. | -36352504. | 2094.015 |
| AV | 485499. | -57316. | 8.087 | -509750. | 0.000 | 550314. | -159441. | 9.184 |
| MONTHLY SUMMARY (MAR) | | | | | | | | |
| MN | 469216. | -285441. | 8.087 | -509750. | 0.000 | 532162. | -394284. | 9.184 |
| MX | 751570. | -4. | 8.087 | -509750. | 0.000 | 852080. | -11. | 9.184 |
| SM | 138121424. | -4957075. | 2231.972 | -140691024. | 0.000 | 156470976. | -24779292. | 2534.859 |
| AV | 500440. | -17960. | 8.087 | -509750. | 0.000 | 566924. | -89780. | 9.184 |
| MONTHLY SUMMARY (APR) | | | | | | | | |
| MN | 469216. | -124669. | 8.087 | -509750. | 0.000 | 532162. | -312999. | 9.184 |
| MX | 729638. | 0. | 8.087 | -509750. | 0.000 | 827019. | -2. | 9.184 |
| SM | 134384288. | -418442. | 2037.887 | -128457008. | 0.000 | 152324320. | -8312274. | 2314.437 |
| AV | 533271. | -1660. | 8.087 | -509750. | 0.000 | 604462. | -32985. | 9.184 |
| MONTHLY SUMMARY (MAY) | | | | | | | | |
| MN | 430671. | 0. | 8.087 | 0. | 0.000 | 488446. | 0. | 9.184 |
| MX | 713385. | 0. | 8.087 | 0. | 30.012 | 809214. | 0. | 9.184 |
| SM | 124863320. | 0. | 2037.887 | 0. | 2978.649 | 141940560. | 0. | 2314.437 |
| AV | 495489. | 0. | 8.087 | 0. | 11.820 | 563256. | 0. | 9.184 |
| MONTHLY SUMMARY (JUN) | | | | | | | | |
| MN | 427603. | 0. | 8.087 | 0. | 0.000 | 485151. | 0. | 9.184 |
| MX | 629271. | 0. | 8.087 | 0. | 42.490 | 718479. | 0. | 9.184 |
| SM | 127157032. | 0. | 2134.929 | 0. | 6441.441 | 144037008. | 0. | 2424.648 |
| AV | 481655. | 0. | 8.087 | 0. | 24.399 | 545595. | 0. | 9.184 |
| MONTHLY SUMMARY (JUL) | | | | | | | | |
| MN | 437695. | 0. | 8.087 | 0. | 0.000 | 495218. | 0. | 9.184 |
| MX | 658691. | 0. | 8.087 | 0. | 43.272 | 746988. | 0. | 9.184 |
| SM | 112947168. | 0. | 1940.845 | 0. | 7226.698 | 127748760. | 0. | 2204.226 |
| AV | 470613. | 0. | 8.087 | 0. | 30.111 | 532287. | 0. | 9.184 |

| | AHU-5 | AHU-6 | AHU-6 | AHU-6 | AHU-6 | AHU-6 | AHU-7 | AHU-7 |
|-----------------------|-------------------------------|-------------------------------|--------------------------|-------------------------------|---------------------------|-------------------------------|-------------------------------|--------------------------|
| | COOLING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR | SUPPLY ELECTRIC KW | HEATING CAPACITY BTU/HR | COOLING ELECTRIC KW | COOLING CAPACITY BTU/HR | TOT HTG COIL PWR BTU/HR | SUPPLY ELECTRIC KW |
| | ----(70) | ----(5) | ----(49) | ----(78) | ----(47) | ----(70) | ----(5) | ----(49) |
| MONTHLY SUMMARY (AUG) | | | | | | | | |
| MN | 437951. | 0. | 8.087 | 0. | 0.000 | 495290. | 0. | 9.184 |
| MX | 657104. | 0. | 8.087 | 0. | 42.314 | 720032. | 0. | 9.184 |
| SM | 129665912. | 0. | 2231.972 | 0. | 7958.378 | 146611568. | 0. | 2534.859 |
| AV | 469804. | 0. | 8.087 | 0. | 28.835 | 531201. | 0. | 9.184 |
| MONTHLY SUMMARY (SEP) | | | | | | | | |
| MN | 430387. | 0. | 8.087 | 0. | 0.000 | 487567. | 0. | 9.184 |
| MX | 698070. | 0. | 8.087 | 0. | 39.418 | 791452. | 0. | 9.184 |
| SM | 123528632. | 0. | 2037.887 | 0. | 4859.461 | 140218704. | 0. | 2314.437 |
| AV | 490193. | 0. | 8.087 | 0. | 19.284 | 556423. | 0. | 9.184 |
| MONTHLY SUMMARY (OCT) | | | | | | | | |
| MN | 456339. | -184971. | 8.087 | -509750. | 0.000 | 516699. | -308563. | 9.184 |
| MX | 621612. | 0. | 8.087 | 0. | 28.100 | 733406. | 0. | 9.184 |
| SM | 117088336. | -6267788. | 1940.845 | -67287008. | 3294.399 | 133167840. | -14385889. | 2204.226 |
| AV | 487868. | -26116. | 8.087 | -280363. | 13.727 | 554866. | -59941. | 9.184 |
| MONTHLY SUMMARY (NOV) | | | | | | | | |
| MN | 469216. | -260594. | 8.087 | -509750. | 0.000 | 532162. | -403274. | 9.184 |
| MX | 665136. | 0. | 8.087 | -509750. | 0.000 | 751491. | 0. | 9.184 |
| SM | 124223072. | -3606989. | 1940.845 | -122340008. | 0.000 | 140498288. | -20603312. | 2204.226 |
| AV | 517596. | -15029. | 8.087 | -509750. | 0.000 | 585410. | -85847. | 9.184 |
| MONTHLY SUMMARY (DEC) | | | | | | | | |
| MN | 469216. | -296485. | 8.087 | -509750. | 0.000 | 532162. | -435288. | 9.184 |
| MX | 646121. | -13. | 8.087 | -509750. | 0.000 | 711757. | -7024. | 9.184 |
| SM | 123450680. | -14661766. | 2037.887 | -128457008. | 0.000 | 139855616. | -41806972. | 2314.437 |
| AV | 489884. | -58182. | 8.087 | -509750. | 0.000 | 554983. | -165901. | 9.184 |
| YEARLY SUMMARY | | | | | | | | |
| MN | 427603. | -327433. | 8.087 | -509750. | 0.000 | 485151. | -460734. | 9.184 |
| MX | 942566. | 0. | 8.087 | 0. | 43.272 | 1067654. | 0. | 9.184 |
| SM | 1490047104. | -61080392. | 24454.646 | -831912064. | 32759.027 | 1688767360. | -193540240. | 27773.246 |
| AV | 492740. | -20199. | 8.087 | -275103. | 10.833 | 558455. | -64001. | 9.184 |

| MMDDHH | AHU-7 | AHU-7 | AHU-7 |
|-----------------------|-------------------------------|---------------------------|-------------------------------|
| | HEATING CAPACITY BTU/HR | COOLING ELECTRIC KW | COOLING CAPACITY BTU/HR |
| | ----(78) | ----(47) | ----(70) |
| MONTHLY SUMMARY (JAN) | | | |
| MN | -578925. | 0.000 | 588302. |
| MX | -578925. | 0.000 | 1237348. |
| SM | -145889152. | 0.000 | 156574624. |
| AV | -578925. | 0.000 | 621328. |
| MONTHLY SUMMARY (FEB) | | | |
| MN | -578925. | 0.000 | 588302. |
| MX | -578925. | 0.000 | 824707. |
| SM | -131994944. | 0.000 | 139462736. |
| AV | -578925. | 0.000 | 611679. |
| MONTHLY SUMMARY (MAR) | | | |
| MN | -578925. | 0.000 | 584304. |
| MX | -578925. | 0.000 | 964163. |
| SM | -159783360. | 0.000 | 172758736. |
| AV | -578925. | 0.000 | 625937. |
| MONTHLY SUMMARY (APR) | | | |
| MN | -578925. | 0.000 | 582440. |
| MX | -578925. | 0.000 | 952212. |
| SM | -145889152. | 0.000 | 164964528. |
| AV | -578925. | 0.000 | 654621. |
| MONTHLY SUMMARY (MAY) | | | |
| MN | 0. | 0.000 | 539975. |
| MX | 0. | 29.368 | 930634. |
| SM | 0. | 2326.293 | 158789184. |
| AV | 0. | 9.231 | 630116. |
| MONTHLY SUMMARY (JUN) | | | |
| MN | 0. | 0.000 | 536675. |
| MX | 0. | 45.409 | 813506. |
| SM | 0. | 5912.268 | 159849232. |
| AV | 0. | 22.395 | 605490. |
| MONTHLY SUMMARY (JUL) | | | |
| MN | 0. | 0.000 | 543558. |
| MX | 0. | 46.067 | 846479. |
| SM | 0. | 7085.115 | 141342864. |
| AV | 0. | 29.521 | 588929. |

| | AHU-7 | AHU-7 | AHU-7 |
|-----------------------|-------------------------------|---------------------------|-------------------------------|
| | HEATING CAPACITY BTU/HR | COOLING ELECTRIC KW | COOLING CAPACITY BTU/HR |
| | ----(78) | ----(47) | ----(70) |
| MONTHLY SUMMARY (AUG) | | | |
| MN | 0. | 0.000 | 544186. |
| MX | 0. | 45.296 | 816252. |
| SM | 0. | 7643.803 | 162200000. |
| AV | 0. | 27.695 | 587681. |
| MONTHLY SUMMARY (SEP) | | | |
| MN | 0. | 0.000 | 538175. |
| MX | 0. | 42.876 | 902130. |
| SM | 0. | 4482.968 | 156080048. |
| AV | 0. | 17.790 | 619365. |
| MONTHLY SUMMARY (OCT) | | | |
| MN | -578925. | 0.000 | 571293. |
| MX | 0. | 25.804 | 831529. |
| SM | -76418112. | 2849.745 | 147876320. |
| AV | -318409. | 11.874 | 616151. |
| MONTHLY SUMMARY (NOV) | | | |
| MN | -578925. | 0.000 | 588302. |
| MX | -578925. | 0.000 | 850172. |
| SM | -138942048. | 0.000 | 154956208. |
| AV | -578925. | 0.000 | 645651. |
| MONTHLY SUMMARY (DEC) | | | |
| MN | -578925. | 0.000 | 588302. |
| MX | -578925. | 0.000 | 835016. |
| SM | -145889152. | 0.000 | 155655952. |
| AV | -578925. | 0.000 | 617682. |
| YEARLY SUMMARY | | | |
| MN | -578925. | 0.000 | 536675. |
| MX | 0. | 46.067 | 1237348. |
| SM | -944805888. | 30300.191 | 1870510336. |
| AV | -312436. | 10.020 | 618555. |

EMTECH ENGINEERING
READING, PA 19603
REPORT- PV-A EQUIPMENT SIZES

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
FT. GEORGE G. MEADE

DOE-2.1D 6/ 7/1996 10: 3: 6 FDL RUN 1
EMCS STUDY
WEATHER FILE- BALTIMORE, MD

| EQUIPMENT | NUMBER | | NUMBER | | NUMBER | | NUMBER | | NUMBER | |
|-----------|----------|-------|----------|-------|----------|-------|----------|-------|----------|-------|
| | SIZE | INSTD | SIZE | INSTD | SIZE | INSTD | SIZE | INSTD | SIZE | INSTD |
| | (MBTU/H) | AVAIL | (MBTU/H) | AVAIL | (MBTU/H) | AVAIL | (MBTU/H) | AVAIL | (MBTU/H) | AVAIL |
| HW-BOILER | 2.500 | 2 | 2 | | | | | | | |

| S I T E E N E R G Y | | | | | | | | | | | | | | SOURCE |
|-----------------------|-----------------------|--------------------------|-------------------------|------------------|-----------------------------|--------------------------|--------------------------|--------------------------|--------------------------|------------------------|------------------------|-------------------------|---------------------------|--------|
| MONTH | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | |
| | TOTAL HEAT LOAD | TOTAL COOLING LOAD | TOTAL ELECTR LOAD | RCVRED ENERGY | WASTED RCVRABL ENERGY | FUEL INPUT COOLING | ELEC INPUT COOLING | FUEL INPUT HEATING | ELEC INPUT HEATING | FUEL INPUT ELECT | TOTAL FUEL INPUT | TOTAL SITE ENERGY | TOTAL SOURCE ENERGY | |
| JAN | 224.6 | 0.0 | 267.8 78.4E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 349.0 | 28.9 8.5E | 0.0 | 349.0 | 616.7 | 1153.0 | |
| FEB | 192.2 | 0.0 | 240.6 70.5E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 296.7 | 25.0 7.3E | 0.0 | 296.7 | 537.3 | 1019.1 | |
| MAR | 130.6 | 0.0 | 274.4 80.4E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 207.8 | 23.1 6.8E | 0.0 | 207.8 | 482.2 | 1031.9 | |
| APR | 83.0 | 0.0 | 251.5 73.6E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 134.9 | 19.4 5.7E | 0.0 | 134.9 | 386.4 | 890.1 | |
| MAY | 0.0 | 0.0 | 301.7 88.4E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 0.0 | 0.0 0.0E | 0.0 | 0.0 | 301.7 | 906.1 | |
| JUN | 0.0 | 0.0 | 346.7 101.5E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 0.0 | 0.0 0.0E | 0.0 | 0.0 | 346.7 | 1041.2 | |
| JUL | 0.0 | 0.0 | 357.0 104.6E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 0.0 | 0.0 0.0E | 0.0 | 0.0 | 357.0 | 1072.2 | |
| AUG | 0.0 | 0.0 | 381.0 111.6E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 0.0 | 0.0 0.0E | 0.0 | 0.0 | 381.0 | 1144.1 | |
| SEP | 0.0 | 0.0 | 324.2 95.0E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 0.0 | 0.0 0.0E | 0.0 | 0.0 | 324.2 | 973.7 | |
| OCT | 58.4 | 0.0 | 300.9 88.1E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 94.7 | 11.5 3.4E | 0.0 | 94.7 | 395.6 | 998.3 | |
| NOV | 86.1 | 0.0 | 242.9 71.1E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 138.4 | 19.4 5.7E | 0.0 | 138.4 | 381.3 | 867.8 | |
| DEC | 178.4 | 0.0 | 262.9 77.0E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 280.1 | 26.1 7.7E | 0.0 | 280.1 | 543.0 | 1069.6 | |
| | 953.3 | 0.0 | 3551.6 1040.2E | 0.0 | 0.0 | 0.0 | 0.0 0.0E | 1501.6 | 153.4 44.9E | 0.0 | 1501.6 | 5053.2 | 12167.1 | |

NOTE-- ALL ENTRIES ARE IN MBTU EXCEPT
 ENTRIES FOLLOWED BY E ARE IN MWH (THOUSANDS OF KWH)

| MO | UTILITY- | ELECTRICITY | NATURAL-GAS |
|-----|--------------|-------------|-------------|
| | TOTAL (MBTU) | 267.762 | 348.961 |
| JAN | PEAK (KBTU) | 1007.105 | 2160.860 |
| | DY/HR | 31/15 | 16/ 7 |
| | TOTAL (MBTU) | 240.563 | 296.711 |
| FEB | PEAK (KBTU) | 1007.105 | 2213.450 |
| | DY/HR | 22/ 9 | 13/ 7 |
| | TOTAL (MBTU) | 274.441 | 207.787 |
| MAR | PEAK (KBTU) | 1007.105 | 1950.657 |
| | DY/HR | 16/ 8 | 7/ 7 |
| | TOTAL (MBTU) | 251.455 | 134.935 |
| APR | PEAK (KBTU) | 990.234 | 1377.561 |
| | DY/HR | 11/ 8 | 10/ 7 |
| | TOTAL (MBTU) | 301.729 | 0.000 |
| MAY | PEAK (KBTU) | 1310.997 | 0.000 |
| | DY/HR | 20/16 | 31/ 1 |
| | TOTAL (MBTU) | 346.728 | 0.000 |
| JUN | PEAK (KBTU) | 1509.353 | 0.000 |
| | DY/HR | 10/16 | 30/ 1 |
| | TOTAL (MBTU) | 357.034 | 0.000 |
| JUL | PEAK (KBTU) | 1519.049 | 0.000 |
| | DY/HR | 25/16 | 31/ 1 |
| | TOTAL (MBTU) | 380.987 | 0.000 |
| AUG | PEAK (KBTU) | 1527.671 | 0.000 |
| | DY/HR | 18/16 | 31/ 1 |
| | TOTAL (MBTU) | 324.242 | 0.000 |
| SEP | PEAK (KBTU) | 1492.039 | 0.000 |
| | DY/HR | 1/16 | 30/ 1 |
| | TOTAL (MBTU) | 300.897 | 94.716 |
| OCT | PEAK (KBTU) | 1318.867 | 1380.046 |
| | DY/HR | 18/16 | 24/ 7 |
| | TOTAL (MBTU) | 242.901 | 138.369 |
| NOV | PEAK (KBTU) | 1007.105 | 1775.396 |
| | DY/HR | 28/ 8 | 25/ 7 |
| | TOTAL (MBTU) | 262.887 | 280.109 |
| DEC | PEAK (KBTU) | 1007.105 | 1911.371 |
| | DY/HR | 27/ 9 | 12/ 7 |
| | ONE YEAR | 3551.624 | 1501.588 |
| | USB/PEAK | 1527.671 | 2213.450 |

ENTECH ENGINEERING
READING, PA 19603
REPORT- PS-D PLANT LOADS SATISFIED

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
FT. GEORGE G. MEADE

DOB-2.1D 6/ 7/1996 10: 3: 6 PDL RUN 1
EMCS STUDY WEATHER FILE- BALTIMORE, MD

HEATING LOADS MBTU SUPPLIED PCT OF TOTAL LOAD

HW-BOILER 953.3 100.0

LOAD SATISFIED 953.3 100.0
TOTAL LOAD ON PLANT 953.3

ELECTRICAL LOADS MBTU SUPPLIED PCT OF TOTAL LOAD

ELECTRICITY 3551.6 100.0

LOAD SATISFIED 3551.6 100.0
TOTAL LOAD ON PLANT 3551.7

ENTECH ENGINEERING
READING, PA 19603
REPORT- PS-D PLANT LOADS SATISFIED

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
FT. GEORGE G. MEADE

DOE-2.1D 6/7/1996 10:3:6 PDL RUN 1
EMCS STUDY

WEATHER FILE- BALTIMORE, MD

(CONTINUED)

SUMMARY OF LOADS MET

| TYPE OF LOAD | TOTAL LOAD (MBTU) | LOAD SATISFIED (MBTU) | TOTAL OVERLOAD (MBTU) | PEAK OVERLOAD (MBTU) | HOURS OVERLOADED |
|------------------|-------------------------|-----------------------------|-----------------------------|----------------------------|---------------------|
| HEATING LOADS | 953.3 | 953.3 | 0.000 | 0.000 | 0 |
| ELECTRICAL LOADS | 3551.7 | 3551.6 | 0.000 | 0.000 | 0 |

ENTTECH ENGINEERING
 READING, PA 19603
 REPORT- PS-H EQUIPMENT USE STATISTICS

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
 FT. GEORGE G. MEADE

DOE-2.1D 6/ 7/1996 10: 3: 6 PDL RUN 1
 EMCS STUDY WEATHER FILE- BALTIMORE, MD

| EQUIPMENT | AVG OPER RATIO | MAX LOAD (MBTU) | MON | | SIZE OPER | | SIZE OPER | | SIZE OPER | | SIZE OPER | |
|-----------|----------------------|-----------------------|-----|----|-----------|-------|-----------|-----|-----------|-----|-----------|-----|
| | | | DAY | HR | (MBTU) | HRS | (MBTU) | HRS | (MBTU) | HRS | (MBTU) | HRS |
| HW-BOILER | 0.081 | 1.657 | 2 | 13 | 7 | 2.500 | 4728 | | | | | |

EQUIPMENT TOTALS

| | | | |
|-----------------------|-------|-------|-------|
| HW-BOILER | 140.6 | | |
| NOMINAL SIZE (MBTU) | | 2.500 | |
| NUMBER INSTALLED | | | 2 |
| FIRST COST (K\$) | | 131.1 | 131.1 |
| ANNUAL COST (K\$) | | 4.2 | 4.2 |
| CYCLICAL COST (K\$) | | 5.4 | 5.4 |
| -----TOTAL----- (K\$) | | | 140.6 |
| <hr/> | | | |
| EQUIPMENT TOTAL | 140.6 | | |

| ENERGY TYPE IN SITE MBTU - | ELECTRICITY | NATURAL-GAS |
|-------------------------------|-------------|-------------|
| CATEGORY OF USE | | |
| SPACE HEAT | 73.05 | 1501.58 |
| SPACE COOL | 520.82 | 0.00 |
| HVAC AUX | 583.62 | 0.00 |
| DOM HOT WTR | 0.00 | 0.00 |
| AUX SOLAR | 0.00 | 0.00 |
| LIGHTS | 1721.74 | 0.00 |
| VERT TRANS | 0.00 | 0.00 |
| MISC EQUIP | 652.34 | 0.00 |
| TOTAL | 3551.56 | 1501.58 |

TOTAL SITE ENERGY 5053.21 MBTU 58.3 KBTU/SQFT-YR GROSS-AREA 58.3 KBTU/SQFT-YR NET-AREA
 TOTAL SOURCE ENERGY 12167.13 MBTU 140.5 KBTU/SQFT-YR GROSS-AREA 140.5 KBTU/SQFT-YR NET-AREA

PERCENT OF HOURS ANY SYSTEM ZONE OUTSIDE OF THROTTLING RANGE = 43.3
 PERCENT OF HOURS ANY PLANT LOAD NOT SATISFIED = 0.0

NOTE ELECTRICITY AND/OR FUEL USED TO GENERATE ELECTRICITY IS APPORTIONED BASED
 ON THE YEARLY DEMAND. ALL OTHER ENERGY TYPES ARE APPORTIONED HOURLY.

| MMDDHH | HW-BOILE R LOAD BTU/HR | HW-BOILE R ELECTRIC USE BTU/HR | HW-BOILE R FUEL USE BTU/HR |
|-----------------------|---------------------------------|--------------------------------------------|----------------------------------------|
| | ----(1) | ----(3) | ----(4) |
| MONTHLY SUMMARY (JAN) | | | |
| MN | 34703. | 3054. | 56709. |
| MX | 1609654. | 55000. | 2160860. |
| SM | 224637792. | 16283064. | 348961568. |
| AV | 301933. | 21886. | 469034. |
| MONTHLY SUMMARY (FEB) | | | |
| MN | 34703. | 3054. | 56709. |
| MX | 1656762. | 55000. | 2213450. |
| SM | 192197264. | 11581517. | 296712192. |
| AV | 286008. | 20211. | 441536. |
| MONTHLY SUMMARY (MAR) | | | |
| MN | 34703. | 3054. | 56709. |
| MX | 1422910. | 55000. | 1950657. |
| SM | 130571600. | 10414490. | 207787408. |
| AV | 175499. | 13998. | 279284. |
| MONTHLY SUMMARY (APR) | | | |
| MN | 34703. | 3054. | 56709. |
| MX | 925758. | 55000. | 1377561. |
| SM | 83030616. | 7158772. | 134934752. |
| AV | 115320. | 9943. | 187409. |
| MONTHLY SUMMARY (MAY) | | | |
| MN | 0. | 0. | 0. |
| MX | 0. | 0. | 0. |
| SM | 0. | 0. | 0. |
| AV | 0. | 0. | 0. |
| MONTHLY SUMMARY (JUN) | | | |
| MN | 0. | 0. | 0. |
| MX | 0. | 0. | 0. |
| SM | 0. | 0. | 0. |
| AV | 0. | 0. | 0. |
| MONTHLY SUMMARY (JUL) | | | |
| MN | 0. | 0. | 0. |
| MX | 0. | 0. | 0. |
| SM | 0. | 0. | 0. |
| AV | 0. | 0. | 0. |

| | HW-BOILE R LOAD BTU/HR | HW-BOILE R ELECTRIC USE BTU/HR | HW-BOILE R FUEL USE BTU/HR |
|-----------------------|---------------------------------|--------------------------------------------|----------------------------------------|
| | ---- (1) | ---- (3) | ---- (4) |
| MONTHLY SUMMARY (AUG) | | | |
| MN | 0. | 0. | 0. |
| MX | 0. | 0. | 0. |
| SM | 0. | 0. | 0. |
| AV | 0. | 0. | 0. |
| MONTHLY SUMMARY (SEP) | | | |
| MN | 0. | 0. | 0. |
| MX | 0. | 0. | 0. |
| SM | 0. | 0. | 0. |
| AV | 0. | 0. | 0. |
| MONTHLY SUMMARY (OCT) | | | |
| MN | 0. | 0. | 0. |
| MX | 927877. | 55000. | 1380046. |
| SM | 58383820. | 5001064. | 94715376. |
| AV | 78473. | 6722. | 127306. |
| MONTHLY SUMMARY (NOV) | | | |
| MN | 34703. | 3054. | 56709. |
| MX | 1269055. | 55000. | 1775396. |
| SM | 86076264. | 7125462. | 138369072. |
| AV | 119550. | 9896. | 192179. |
| MONTHLY SUMMARY (DEC) | | | |
| MN | 34703. | 3054. | 56709. |
| MX | 1388278. | 55000. | 1911371. |
| SM | 178397280. | 13486727. | 280109632. |
| AV | 239781. | 18127. | 376491. |
| YEARLY SUMMARY | | | |
| MN | 0. | 0. | 0. |
| MX | 1656762. | 55000. | 2213450. |
| SM | 953294592. | 73051096. | 1501590016. |
| AV | 108824. | 8339. | 171414. |