APCo Exhibit 23

A-23
50-348/364-CIVP
2/20/92

0060306

DOCKETED
USNRC

'92 MAR 13 P4:17

OFFICE OF SECRETARY
DOCKETING & SERVICE
BRANCH

FNP-0-ETP-4108
October 20, 1983
Revision 0

FARLEY NUCLEAR PLANT

ENGINEERING TECHNICAL PROCEDURE

FNP-0-ETP-4108

SAFETY RELATED

FNP ENVIRONMENTAL QUALIFICATION PROGRAM

SUPERCEDED

Approved:

Systems Performance & Planning Superintendent

Date Issued:

Diskette #ETP-47

NUCLEAR REGULATORY COMMISSION

Docket No. 50-348/364-CIVP Original Exh. No. 23

In the matter of Alabama Power Company

Staff _____ IDENTIFIED 1:05 p.m. 2/20/92

Applicant ✓ RECEIVED 1:05 p.m. 2/20/92

Intervenor _____ REJECTED _____

Gov't Ag'cy _____

Contractor _____ DATE 2/20/92

Other _____ WITNESS _____

Reporter L Estep

0060607

PROCEDURE REVISION FORM -5

1. Procedure Number PNP-1.0TP-0011 Revision Number 0
   Procedure Title PNP ENVIRONMENTAL QUALIFICATION PROGRAM

   ☑ Safety Related ☐ Non-Safety Related
   ☐ New Procedure Request
   ☑ Procedure Revision, New Revision Number ____
   ☐ Temporary Procedure Change, Effective until next permanent change, TCN N/A
   ☐ Temporary Procedure Change, Req'd. by Plant Conditions, TCN ____
   ☐ Temporary Procedure Change, One Time Use, TCN ____
   ☐ Delete procedure

2. Change Summary
   2.1 Procedure Page Numbers Affected by Change APPENDIX "J", PAGE 2

   2.2 Description of Changes REPLACE PAGE 2 OF APPENDIX J WITH PAGE OF THIS CHANGE

   2.3 Reason for Change VENDOR CHANGED MODEL NO OF BOOT FROM EA-749-2CC43 TO EA-749-2CC43. NETS HAS VERIFIED THAT THIS CHANGE DOES NOT AFFECT ENVIRONMENTAL QUALIFICATION.

3. Prepared By _____ (Signature), GPE SUPV (Title), 3-23-84 (Date)

4. Reviewed By _____ (Signature), _____ (Title), 3/23/84 (Date)

5. Cross-Disciplinary/PORC Review

Group	Signature	Title	Date
Maint	_____	GPE I	3-23-84
____	____	____	____
____	____	____	____

6. Temporary Change Approval (Signature/Date)

   ☒ Member Group Staff — 3-23-84
   ☐ Shift Foreman
   ☒ Senior Reactor Operator — 3/23-84
   ☐ Plant Manager

7. Final Approval (Signature/Date, required within 60 days of temporary approval)

   ☐ Group Supervisor
   ☒ Plant Superintendent — 3-23-84
   ☐ MSAER
   ☐ Vice President - Nuclear Generation
   ☐ _____
   ☐ Plant Manager

Figure 1

Gen. Rev. 13

0060608

FARLEY NUCLEAR PLANT
NUCLEAR SAFETY EVALUATION CHECK LIST
10 CFR 50.59

(1) UNIT N/A
(2) CHECK LIST APPLICABLE TO: FNP-0-ETP-4108 Revision 0 TCN _____
(3) SAFETY EVALUATION - PART A

The procedure, procedure change or modification to which this evaluation is applicable represents:

(3.1)	Yes _____	No ✓	A change to the plant as described in the FSAR?
(3.2)	Yes _____	No ✓	A change to procedures as described in the FSAR?
(3.3)	Yes _____	No ✓	A test or experiment not described in the FSAR?
(3.4)	Yes _____	No ✓	A change to the Technical Specifications or Operating License?

If the answer to question 3.1, 3.2 or 3.3 is "YES," complete Item (4) and attach a 10 CFR 50.59 evaluation. If the answer to all of the above is "No," omit Item (4) and Item (9). If the answer to question 3.4 is "Yes," complete a 10 CFR 50.92 check list.

(4) SAFETY EVALUATION - PART B

(4.1)	Yes _____	No _____	Will the probability of an accident previously evaluated in the FSAR be increased?
(4.2)	Yes _____	No _____	Will the consequences of an accident previously evaluated in the FSAR be increased?
(4.3)	Yes _____	No _____	May the possibility of an accident which is different than any already evaluated in the FSAR be created?
(4.4)	Yes _____	No _____	Will the probability of a malfunction of equipment important to safety previously evaluated in the FSAR be increased?
(4.5)	Yes _____	No _____	Will the consequences of a malfunction of equipment important to safety different than any already evaluated in the FSAR be increased?
(4.6)	Yes _____	No _____	May the possibility of a malfunction of equipment important to safety different than any already evaluated in the FSAR be created?
(4.7)	Yes _____	No _____	Will the margin of safety as defined in the basis to any Technical Specification be reduced?

If the answer to any of the above questions is "Yes," an unreviewed safety question is involved. Explain the basis for each answer provided in Section 4.

(5) REMARKS: (Attach additional pages if necessary) CHANGE VENDOR MODEL NUMBER AS APPROVED BY NETS.

(6) PREPARED BY: _____ DATE 3-25-84
(7) REVIEWED BY: _____ DATE 3/28/84
(8) PORC REVIEW: _____ DATE _____
(9) NORB REVIEW: _____ DATE _____

Distribution
Original: Document Control File A216226

- Top cover gasket kit; EA-749-20021
- Bottom cover gasket kit; EA-749-20026
- Contact carrier kit; EA-749-20032
- Contact block kit; EA-749-20036
- Boot and retaining ring kit; EA-749-20043

TCN 90A

See the attached ASCO maintenance instructions. Tables 1 and 2 of "Environmental Qualification Surveillance" provides the frequency for these maintenance activities.

ASCO Solenoid Valves: NP8316, NP8320, NP8321, 206-381

Requirement: Replace the coil, all resilient parts and manual operator assembly (optional feature). To order spare part kits, coils and manual operator assemblies, specify the valve catalog number, serial number and voltage. See attached ASCO maintenance instructions. Tables 1 and 2 of "Environmental Qualification Surveillance" provides the frequency for the maintenance activities.

Indeterminate Life Equipment

Equipment: Barton transmitters; models 763 and 764
Foxboro transmitters; models E11GM (MCA) and E13DM
GEMS Delaval transmitters; XM-36495
GEMS Delaval level sensor; XM-54854
GEMS Delaval level switch; LS-36497
Target Rock solenoids; 79ABOO1.

Requirement: The qualified life and environmental qualification preventive maintenance activities will be determined following the completion of ongoing qualification tes of analogous or similar equipment and subsequent evaluation of test results.

FARLEY NUCLEAR PLANT
ENGINEERING TECHNICAL PROCEDURE
FNP-0-ETP-4108

FNP ENVIRONMENTAL QUALIFICATION PROGRAM

1.0 Purpose

This procedure assigns responsibility and describes the process for implementation of the FNP Environmental Qualification Program.

2.0 Environmentally Qualified Equipment Documentation

Basic documents and records used to establish program controls are: (1) Master List of Environmentally Qualified Equipment, (2) Environmental Qualification Test Report List, (3) Environmental Qualification Test Reports, (4) Component Maintenance and Replacement Schedules, (5) [illegible] Specifications, and (6) Environmental Qualification Surveillance Records.

2.1 Master List of Environmentally Qualified Equipment

This list identifies by system, plant ID number, generic name, manufacturer, model number, and location components required to be environmentally qualified. Revisions and changes to this list are prepared and reviewed by NETS and approved by the Systems Performance Superintendent. This list is included as Appendices I and II of this procedure.

2.2 Environmental Qualification Test Report List

This list identifies approved environmental qualification test reports and the components to which they apply. Revisions and changes to the list shall be prepared and reviewed by NETS and approved by the Systems Performance Superintendent. This list is included as Appendix III of this procedure.

2.3 Environmental Qualification Test Reports

Environmental Qualification Test Reports provide the technical basis for determining the qualified life of an environmentally qualified component. NETS (Design and Licensing) will ensure that a complete review of the qualification documents is performed. The review of the vendors test

reports and other qualification documents should demonstrate their acceptability to the specific Farley requirements.

The appropriate organization, chosen by NETs (Design and Licensing), performing the technical evaluations will determine if the test reports and other vendor information such as component material lists sufficiently demonstrates the capability of the subject equipment to withstand the stresses of a harsh environment resulting from a postulated LOCA or high energy line break at FNP.

The reviewing organization will complete an Environmental Qualification Report Evaluation (Figure 1), Component Evaluation Work Sheet (CEWS) (Figure 2), and the necessary calculations to document the results of the evaluation. The Environmental Qualification Report Evaluation, CEWS and the calculations will be forwarded to NETS (Design and Licensing) including a summary of the technical adequacy of the vendor's test reports and information. As a minimum, the reviewing organization will also generate the environmental maintenance requirements including the identity of the subcomponents requiring periodic replacement, their replacement frequency, life category, and appropriate service manual and procedures for inclusion into plant procedures.

The CEWS should be completed to the extent practical without specifying the application of the instrument. The format of the CEWS will document the results of the test report and provide APCo the means to update the regulatory responses as desired. Calculations performed by Westinghouse, Bechtel or SCS are not required at this time to be forwarded to NETS (Design and Licensing) if appropriately referenced in the evaluation summary, but must be retained in their engineering files subject to APCo evaluations and audits. All calculations performed by other organizations must be forwarded to NETS (Design and Licensing).

If the subject equipment is authorized for purchase, NETS (Design and Licensing) will forward the Environmental Qualification Report Evaluation, CEWS, appropriate calculations, evaluation summaries, and vendor test reports and information to the Systems Performance Superintendent for review to verify proper

incorporation in the Environmenta. Qualification Test Report List. The Systems Performance Superintendent shall forward these documents to FNP Document Control for permanent retention.

2.4 Component Maintenance and Replacement Schedule

The Component Maintenance and Replacement Schedule provides the qualified life of each component included in the environmental qualification program. A component's qualified life is determined from engineering calculations using test report data. The Component Maintenance and Replacement Schedule is prepared and reviewed by NETS and approved by the Systems Performance Superintendent. This schedule is maintained as a controlled document in the FNP Document Control system. This schedule is used for scheduling PM tasks and replacement of environmentally qualified components. This list is included as Appendix IV of this procedure.

2.5 PM Specifications

The environmental qualification PM Specifications identify the manufacturer, model, and required maintenance activities for all environmentally qualified components. Preventive Maintenance Specifications will be prepared and reviewed by NETS and forwarded to the Systems Performance Superintendent for approval and incorporation in the environmental qualification files maintained by Document Control. This list is included as Appendix V of this procedure.

2.6 Environmental Qualification Surveillance Records

2.6.1 The Specimen Surveillance Checklist (Figure 3) is used to document examination of environmentally qualified components. This checklist is completed by Maintenance personnel performing examinations described in Section 3.0. Completed Specimen Surveillance Checklists are forwarded to Systems Performance for review. Following review by Systems Performance these checklists are forwarded to Document Control for retention in the environmental qualification files.

2.6.2 Document Summary Sheets

In concert with the reviews of the Specimen Surveillance Checklist for

indeterminate life equipment, Syste Performance will complete a review of other documentation that may provide insights to the condition of the equipment. These documents will include: completed maintenance work requests; operating logs and data; completed Technical Specification surveillance tests; preventive maintenance plans and schedules; vendor information and notices concerning equipment utilization, function, capabilities, maintenance, defects and non-compliances; regulatory documents concerning adverse test reports, vendor anomalies, and service information; other Document Summary Sheets; and utility group information. Due to the number of documents involved, consideration should be selectively given to those documents having significant relevance to environmental qualification or the specific equipment under review to avoid diluting these efforts with inconsequential material. The review shall be documented on the Document Summary Sheet (Figure 4) for future reference.

A Document Summary Sheet may be completed for limited or 40-year life equipment at the discretion of the Systems Performance Supervisor, when evidence of unexpected aging is identified by a review of the Specimen Surveillance Checklist or other documentation.

3.0 Environmental Qualification Surveillance

Although the term "surveillance" is used in IEB 79-01B to describe the monitoring of age degradation, it should not be construed as an additional safety related surveillance test required by the Technical Specifications. It should be noted, the surveillance program discussed herein does not include or supercede any Technical Specification requirements.

There are three types of equipment addressed by the program: equipment with an indeterminate life but, in all other aspects, is qualified; equipment with a limited life; and equipment with 40-year life (see Tables 1 and 2 of the Component Maintenance and Replacement Schedule). Each of these categories will have an incremental increase in surveillance requirements to

compensate for the susceptibility to, or indeterminate aspects of, the aging degradation. The functional capability of 40-year life equipment, as with all equipment, is presently subject to the normal cognitive responsibilities of plant personnel; no additional surveillance requirements will be specified by this program. Limited life equipment will include a documented examination of a sample of the subcomponents (specimen) replaced at the end of their documented life. The equipment with an indeterminate life will include an examination of a specimen as well as a completion of a documented evaluation of in-house records providing insights to the condition of the equipment.

3.1 Maintenance Responsibilities

3.1.1 Maintenance shall perform required visual examination of environmentally qualified components. The purpose of the examination is to identify aging degradation. Evidence of degradation will include, but not be limited to; leakage or other indications of failure; discoloration other than stain from extrinsic matter; surface degradation such as cracking, bubbling, adhesiveness, corrosion, diffusion, moldering, and loss of elasticity or other properties critical to the intended function of the specimen; excessive deformation such as elongation or loss of general dimensional integrity. The Specimen Surveillance Checklist (Figure 3) will be used to document examination of the specimen. Maintenance will forward all completed Specimen Surveillance Checklists to Systems Performance for review and evaluation. The Specimen Surveillance Checklist is completed in accordance with the following instructions.

INSTRUCTIONS FOR COMPLETING SPECIMEN SURVEILLANCE CHECKLIST

IDENTITY

TPNS No.	Enter the complete TPNS number, including the system identifier from which the specimen is chosen.
Date	Date specimen is examined.

Component	Generic name of the component (e.g., limit switch, solenoid, etc.).
Manufacturer	Name of company that provided component.
Model	Manufacturer's model number of the component.
Unit	Unit 1 or 2.
Location	Containment or Auxiliary Building.
AUTHORIZATION	
WA	Number of work authorization that authorizes the activity.
EXAMINATION	
Specimen	Identity of subcomponent under examination (e.g., cover gaskets, coil etc.).
Part Number	Enter the manufacturer's part number of the specimen if known and the manufacturer if different from the component.
Failure	Describe any evidence of the specimen having failed to perform its intended function.
Discoloration	Describe any specimen discoloration other than stains from extrinsic matter.
Surface Degradation	Describe any degradation of the specimen critical to its intended function.
Geometric Deformation	Describe any deformation of the specimen other than that attributed to accidental impact or dismantling.
Other Evidence	Describe any other indications of degradation important to the function of the specimen not addressed above, or any general remarks on the condition of the specimen.
Results	Examiner shall summarize the capabilities of the specimen and component discernible by the examination.
Examiner	Signature of the individual designated to perform examination.

Maintenance Supervisor	Signature of Maintenance Supervisor who ensures adequate examination was completed.
Recommendation	Systems Performance reviewer will provide a scheme to resolve any identified degradation.
Reviewer	Signature of Systems Performance personnel who has reviewed checklist.
Systems Performance Supervisor	Signature of Supervisor to ensure a complete evaluation and adequate recommendation.

3.1.2 The PM Coordinator shall prepare a Preventive Maintenance Task Sheet for each required environmental qualification PM task. Required environmental qualification PM tasks are identified by the list of PM Specifications described in section 2.5 of this procedure. Appropriate maintenance procedures and vendor service manuals to perform the maintenance will be referenced by the task description. Parts, components, and subassemblies subject to the visual examination described in section 3.1.1 are identified as replacement parts in the PM Specification list.

3.1.3 The PM Coordinator shall schedule environmental qualification PM tasks. Environmental qualification PM tasks may not be deferred past the end of the qualified life of a component. The qualified life of an environmentally qualified component is listed in the Component Maintenance and Replacement Schedule described in section 2.4. The Maintenance Supervisor shall be responsible for notifing Systems Performance and NETS (Design and Licensing) of any delays in replacing components at the end of their qualified life. NETS will evaluate the consequences of the delays to replace components and document justification of interim operation.

3.1.4 The PM Coordinator will select components which are to be subjected to the examination described in section 3.1.1. The choice of components may be random or may be based on suspicious operation.

regulatory notification, vendor information, etc. Only one component from each manufacturer's generic model is necessary unless more stringent surveillance requirements have been prescribed by Systems Performance. Manufacturer's generic models located both inside and outside the containment will be sampled separately, i.e., a specimen from inside the containment will not negate the need for a specimen from outside the containment, and vice versa.

3.1.5 Environmentally qualified components with an indeterminate life that are replaced as a result of failure shall be subjected to the examination described in section 3.1.3 to determine if age degradation contributed to the failure. Parts to be examined will be determined by analysis of the available information on the known material used in construction and test reports of the vendor's analogous equipment with an established life.

3.1.6 Efforts will be made to ensure that corrective maintenance will not compromise the qualification status of the equipment identified on the Equipment Master List. For such equipment, the Maintenance Planners will include a statement on the Maintenance Work Request that the subject equipment is environmentally qualified and replacement parts will be replacement-in-kind commodities.

3.2 Systems Performance Group Surveillance Responsibilities

3.2.1 Maintenance will forward all Specimen Surveillance Checklists to Systems Performance. The checklists will be reviewed by Systems Performance for indications of degradation affecting the functional capabilities of the material. To assess the significance of any concerns, Systems Performance will review the Document Summary Sheets prepared in accordance with Section 3.6.2 of this program.

3.2.2 Systems Performance will complete the recommendations section of the appropriate surveillance checklist by

addressing such matters as: no aging identified and no action necessary, increase or decrease surveillance of similar components, further documen review, replace components, etc. The completed checklists will be forwarded to Document Control for retention in the environmental qualification file.

3.2.3 Systems Performance Group Problem Report will be prepared by Systems Performance for concerns (identified in accordance with step 3.2.2 of this program) to be resolved within the plant staff or NETS (Design and Licensing) such as procedural changes, increased surveillance, etc. The Systems Performance Group Problem Report shall clearly identify the concern and recommend the action to be taken for resolution.

Systems Performance, and NETS (Design and Licensing) as requested, will review the response to the Problems Report and determine if the concern has adequately been resolved. The problem report and resolution will be forwarded to Document Control for retention in the environmental qualification file.

3.2.4 Upon the receipt of a Systems Performance Group Problem Report, the Superintendent of Nuclear Design and Licensing will ensure the necessary actions are undertaken to complete the response. If an engineering study is deemed necessary, coordination with an outside engineering service may be desirable. The response to the Systems Performance Group Problem Report, as well as the results and recommendations of associated engineering studies, will be documented by a Problem Report Response Sheet and forwarded to the Systems Performance Supervisor. Recommendations may include: no significant concerns identified and no action necessary, procedure revisions, modification of qualified life, alternative vendors, design changes, etc. Significant defects and noncompliances will be evaluated for potential reportability under 10CFR50 part 21. NETS (Design and

Licensing) will prepare justification for interim operation for reportable concerns.

3.2.5 Systems Performance will be responsible to coordinate the implementation of the recommendations from the engineering studies. The accountability of the recommendations should be documented by preparation of Systems Performance Group Problem Reports, PCR's, WR's, etc. The engineering studies and recommendations, PCR's, Systems Performance Group Problem Reports, and other documents providing evidence of resolution of environmental qualifications concerns will be forwarded to Document Control for permanent retention in the appropriate central file location.

4.0 Procurement Control

4.1 Material Requisitions and Purchase Orders for environmentally qualified items shall be processed in accordance with AP-9 instructions for procurement of safety related QA review Code "A" items.

4.2 Environmental qualification requirements shall be considered as part of the QA requirements. For environmentally qualified components required QA documentation shall include a certificate of compliance to the specified test report from the vendor. The test report number and revision date shall be stated in the certificate of compliance. A statement of conformance to IEEE 323-1974 or other codes and standards addressing environmental testing, unless accompanied by test data, is not sufficient.

4.3 A requisitioned subcomponent that is not included in the total plant numbering system shall satisfy the environmental requirements of the equipment having a TPNS No. for which the subcomponent is a constituent part. As an example, the coil of a solenoid will be qualified to the environmental test report for the solenoid and documented by requesting a certificate of conformance from the vendor. The test report requirements will be obtained from the Equipment Master List and Acceptable Test Report List via the solenoid's TPNS No. and manufacturer.

4.4 All cable will be procured according to standard operating procedure and will be environmentally

qualified. As with all other environmentally qualified equipment purchases, the test reports from vendors with equipment presently installed at FNP as identified on the Acceptable Test Report List will be referenced on the FNP Material Requisition; new vendors will be provided the standard FNP specific environmental conditions with which compliance should be established. Previous suppliers will be required to provide a certificate of compliance to the test report specified on the Acceptable Test Report List and new vendors will be required to submit their environmental qualification test reports for review. Cable will not necessarily be obtained from the original manufacturer; therefore, the manufacturers and model numbers for cables are not listed on the Equipment Master List. This will allow the design and installation of cables utilizing the FNP cable codes regardless of the manufacturer's cable available onsite.

4.5 The Material Supervisor will stamp the X-Req. as follows: "PLEASE DO NOT SUBSTITUTE. NATURE OF THIS REQUIREMENT IS SPECIFIC AND DOES NOT ALLOW SUBSTITUTION."

5.0 Design Control

5.1 A PCN will address environmental qualification if the design change:

A. Affects equipment identified on the Equipment Master List; or

B. Adds equipment essential to mitigate the consequences of a LOCA or HELB while exposed to the harsh environment resulting therefrom (the only areas of a harsh environment are the containment and main steam valve room); or

C. Responds to a PCR referencing a Specimen Surveillance Checklist or a Document Summary Sheet.

The design organization will ensure that PCN's addressing environmental qualification adequately consider the Farley specific environmental conditions, maintenance, installation configuration, submergence level, interfaces with other components, etc. The PCN shall specify the manufacturer and model number of equipment and components, other than cable, and identify any special environmentally qualified material such as gaskets

and seals. The PCN must clearly state that the equipment is to be environmentally qualified.

As design organizations, Bechtel and SCS will prepare engineered requisitions for all environmentally qualified equipment that is identified by the PCN and not on the Acceptable Test Report List. The engineered requisition will include the license and code requirements, the primary vendor and model number, special material requirements, and a part description that clearly identifies the components to be environmentally qualified. Additionally, the engineered requisition will request a certificate of conformance and a copy of the qualification test report. The procurement of all other environmentally qualified equipment will be in accordance with "Procurement Control".

5.2 NETS (Design and Licensing) will review PCM's to ensure that the engineering designs provided by the design organization are adequate to resolve the existing conditions described on the corresponding PCR's. In particular, the reviews should consider whether additions and deletions to the scope of environmentally qualified equipment and the selection of manufacturers not identified on the Acceptable Test Report List are necessary and acceptable. As determined necessary from their review NETS shall prepare changes to (1) the Master List of Environmentally Qualified Equipment, (2) the Environmental Qualification Test Report List, (3) Environmental Qualification Test Reports, (4) The Component Maintenance and Replacement Schedule, and (5) PM Specifications as described in Section 2.0 of this procedure.

APPENDIX 1

MASTER LIST OF ENVIRONMENTAL QUALIFIED EQUIPMENT

UNIT 1

LIST OF EFFECTIVE PAGES

PAGE NO.	REVISION NO.											
	0	1	2	3	4	5	6	7	8	9	10	11
1	X											
2	X											
3	X											
4	X											
5	X											
6	X											
7	X											
8	X											
9	X											
10	X											
11	X											
12	X											
13	X											
14	X											
15	X											
16	X											
17	X											
18	X											
19	X											
20	X											
21	X											
22	X											
23	X											
24	X											
25	X											

LIST OF EFFECTIVE PAGES

0060623

PAGE NO.	REVISION NO. 0	1	4	5	6	7	8	9	10	11
26	X									
27	X									
28	X									
29	X									
30	X									
31	X									
32	X									
33	X									
34	X									
35	X									
36	X									

U29935 1/41

MASTER LIST

Joseph M. Farley Nuclear Plant Unit 1

Section C.2.1
Sheet 1

(CLASS 1E ELECTRICAL EQUIPMENT REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS)

SYSTEM: REACTOR COOLANT INSTRUMENTATION 8-13

COMPONENT				LOCATION	
PLANT ID NUMBER	GENERIC NAME	MANUFACTURER	MODEL	BLDG.	ELEV.
N1B13TE412B	RTD	Rosemount	176KF	CDMT	124'-0"
N1B13TE412D	RTD	Rosemount	176KF	CDMT	124'-0"
N1B13TE422B	RTD	Rosemount	176KF	CDMT	124'-0"
N1B13TE422D	RTD	Rosemount	176KF	CDMT	124'-0"
N1B13TE432B	RTD	Rosemount	176KF	CDMT	124'-0"
N1B13TE432D	RTD	Rosemount	176KF	CDMT	124'-0"
Q1T52B012	Penetration	General Electric	100 Series	CDMT	143'-0"
Q1T52B028	Penetration	General Electric	100 Series	CDMT	143'-0"
Q1T52B030	Penetration	General Electric	100 Series	CDMT	143'-0"
11TB001	Terminal Block	States Co.	Type ZWM	CDMT	>115'
11TB002	Terminal Block	States Co.	Type ZWM	CDMT	>115'
21TB003	Terminal Block	States Co.	Type ZWM	CDMT	>115'
21TB004	Terminal Block	States Co.	Type ZWM	CDMT	>115'
31TB001	Terminal Block	States Co.	Type ZWM	CDMT	>115'
31TB002	Terminal Block	States Co.	Type ZWM	CDMT	>115'
1V1V5002B.D	Instr. Cables			CDMT	>115'
1V2V5002B.D	Instr. Cables			CDMT	>115'
1V3V5002B.D	Instr. Cables			CDMT	>115'

GPD-1274 Rev. 6/81

0060625

MASTER LIST

△ New Sheet
Section 2
Sheet 2

Joseph M. Farley Nuclear Plant Unit 1

(CLASS 1E ELECTRICAL EQUIPMENT REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS)

SYSTEM: B13 - Reactor Coolant System (Head Vent) NUREG-0737, Section II.B.1

COMPONENT				LOCATION	
PLANT ID NUMBER	GENERIC NAME	MANUFACTURER	MODEL	BLDG.	ELEV.
Q1B13SV2213A	Solenoid Valve	Target	79AB001	CTMT	>115'-0"
Q1B13SV2213B	Solenoid Valve	Target	79AB001	CTMT	>115'-0"
Q1B13SV2214A	Solenoid Valve	Target	79AB001	CTMT	>115'-0"
Q1B13SV2214B	Solenoid Valve	Target	79AB001	CTMT	>115'-0"
Q1T52B014-A	Control Penetration	General Electric	100 Series	CTMT	>115'-0"
1VAL51458	Control Cable			CTMT	>115'-0"
1VAL51458	Control Cable			CTMT	>115'-0"
A1TB007	Terminal Block	States	Type ZWM	CTMT	>115'-0"
Q1B13SV2213A-A/TB	Terminal Block	States	Type ZWM	CTMT	>115'-0"
1VAL51468	Control Cable			CTMT	>115'-0"
1VAL51468	Control Cable			CTMT	>115'-0"
Q1B13SV2214A/TB	Terminal Block	States	Type ZWM	CTMT	>115'-0"
Q1T52B016-B	Control Penetration	General Electric	100 Series	CTMT	>115'-0"
1VBL51465D	Control Cable			CTMT	>115'-0"
1VBL51465E	Control Cable			CTMT	>115'-0"
B1TB025	Terminal Block	States	Type ZWM	CTMT	>115'-0"
Q1B13SV2213B-B/TB	Terminal Block	States	Type ZWM	CTMT	>115'-0"
1VBL51466D	Control Cable			CTMT	>115'-0"
1VBL51466E	Control Cable			CTMT	>115'-0"
Q1B13SV2214B-B/TB	Terminal Block	States	Type ZWM	CTMT	>115'-0"

GFD-1376 Rev. 6/81

MASTER LIST

⚠ New Sheet
Section 4
Sheet 2

Joseph M. Farley Nuclear Plant Unit 1

(CLASS 1E ELECTRICAL EQUIPMENT REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS)

SYSTEM: B13/B31 Pressurizer Safety Valve Position Indication NUREG-0737, II.D.3

COMPONENTS					
PLANT ID NUMBER	GENERIC NAME	MANUFACTURER	MODEL	LOCATION BLDG.	ELEV.
1VYYCH174A	Cable			CTMT	>115'-0"
Q1B13G001-B	Terminal Box	States Company	Type EWM	CTMT	>115'-0"
1VBL30999	Cable			CTMT	>115'-0"
1VBL30999H	Cable			CTMT	>115'-0"
1VBL30999J	Cable			CTMT	>115'-0"
Q1T52B025-B	Ctmt. Penet.	General Electric	100 Series	CTMT	>115'-0"
Q1T52B022-B	Ctmt. Penet.	General Electric	100 Series	CTMT	>115'-0"
Q1B13ZS2034	Position Switch	NAMCO	EA-180	CTMT	>115'-0"
Q1B13ZS2035	Position Switch	NAMCO	EA-180	CTMT	>115'-0"
Q1B13ZS2036	Position Switch	NAMCO	EA-180	CTMT	>115'-0"
N1B312S0444B	Limit Switch	NAMCO	EA-180	CTMT	>115'-0"
N1B312S0445A	Limit Switch	NAMCO	EA-180	CTMT	>115'-0"
N1B31SV0444BA-B/JB	Junction Box	States Company	Type EWM	CTMT	>115'-0"
N1B31SV0445AA-A/JB	Junction Box	States Company	Type EWM	CTMT	>115'-0"
Q1T52B007A	Control Penetration	General Electric	100 Series	CTMT	>115'-0"
1VYCH174A	Cable			CTMT	>115'-0"
[illegible]	Control Penetra.	General Electric	100 Series	CTMT	>115'-0"
[illegible]	Control Penetra.	General Electric	100 Series	CTMT	>115'-0"
[illegible]	Control Cable			CTMT	>115'-0"
[illegible]	Control Cable			CTMT	>115'-0"

MASTER LIST

Joseph M. Farley Nuclear Plant Unit 1

(CLASS IE ELECTRICAL EQUIPMENT REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS)

SYSTEM: REACTOR COOLANT SYSTEM - STEAM GENERATOR B-21

COMPONENTS					
PLANT ID NUMBER	GENERIC NAME	MANUFACTURER	MODEL	LOCATION BLDG.	LOCATION ELEV.
N1B21PT402	Press. Transmitter	Barton	763	CTMT	129'
N1B21PT403	Press. Transmitter	Barton	763	CTMT	129'
N1B21TE410	RTD	Rosemount	176KS	CTMT	122'-9"
N1B21TE413	RTD	Rosemount	176KS	CTMT	122'-9"
N1B21TE420	RTD	Rosemount	176KS	CTMT	122'-9"
N1B21TE423	RTD	Rosemount	176KS	CTMT	122'-9"
N1B21TE430	RTD	Rosemount	176KS	CTMT	122'-9"
N1B21TE433	RTD	Rosemount	176KS	CTMT	122'-9"
Q1T52B012	Penetration	General Electric	100 Series	CTMT	143'-0"
Q1T52B030	Penetration	General Electric	100 Series	CTMT	143'-0"
Q1T52B040	Penetration	General Electric	100 Series	CTMT	143'-0"
11TB001	Terminal Block	States Co.	Type ZWM	CTMT	>115'
11TB003	Terminal Block	States Co.	Type ZWM	CTMT	>115'
11TB004	Terminal Block	States Co.	Type ZWM	CTMT	>115'
21TB001	Terminal Block	States Co.	Type ZWM	CTMT	>115'
21TB002	Terminal Block	States Co.	Type ZWM	CTMT	>115'
21TB005	Terminal Block	States Co.	Type ZWM	CTMT	>115'
1VYV5031B	Instr. Cables			CTMT	>115'
1VYV5032B	Instr. Cables			CTMT	>115'
1V1V5002E.F.G	Instr. Cables			CTMT	>115'
1V2V5002E.F.G	Instr. Cables			CTMT	>115'

MASTER LIST

Joseph M. Farley Nuclear Plant Unit 1

Section C.2.3
Sheet 2

(CLASS 1E ELECTRICAL EQUIPMENT REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS)

SYSTEM: REACTOR COOLANT SYSTEM - PRESSURIZER B-31

COMPONENTS					
PLANT ID NUMBER	GENERIC NAME	MANUFACTURER	MODEL	LOCATION BLDG.	LOCATION ELEV.
Q1B31SV8047 (HV8047)	Solenoid Valve	ASCO	NP8316S4V	CTMT	118'-0"
N1B31SS8047 (HV8047)	Limit Switch	NAMCO	EA-180	CTMT	118'-0"
Q1T52B022	Penetration	General Electric	100 Series	CTMT	143'
Q1T52B038	Penetration	General Electric	100 Series	CTMT	143'
N1B31SV8047-B/JB	Terminal Block	States Co.	Type ZWH	CTMT	>115'
Q1B31LT459	Level Transmitter	Barton	764	CTMT	132'
Q1B31LT460	Level Transmitter	Barton	764	CTMT	132'
Q1B31LT461	Level Transmitter	Barton	764	CTMT	132'
Q1B31PT455	Pressure Transmitter	Foxboro	E11GM(HCA)	CTMT	166'-6"
Q1B31PT456	Pressure Transmitter	Foxboro	E11GM(HCA)	CTMT	166'-6"
Q1B31PT457	Pressure Transmitter	Foxboro	E11GM(HCA)	CTMT	166'-6"
1VBL5078C	Control Cable			CTMT	>115'
1VBQ5021E	Control Cable			CTMT	>115'
Q1T52B012	Penetration	General Electric	100 Series	CTMT	143'
Q1T52B028	Penetration	General Electric	100 Series	CTMT	143'
Q1T52B030	Penetration	General Electric	100 Series	CTMT	143'
Q1T52B040	Penetration	General Electric	100 Series	CTMT	143'
1VYV5031D	Instr. Cable			CTMT	>115'
1V1V5042U	Instr. Cable			CTMT	>115'
1V2V5002T,U	Instr. Cables			CTMT	>115'
1V3V5002T, U	Instr. Cables			CTMT	>115'

U2YY3 1/40

GPD 1374 Rev 6/81

MASTER LIST

Joseph M. Farley Nuclear Plant Unit 1

IE CLASS IE ELECTRICAL EQUIPMENT REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT COND[illegible]

SYSTEM: B31 - Pressurizer Relief and Safety Valves NUREG-0737, II.D.1

COMPONENTS					
PLANT ID NUMBER	GENERIC NAME	MANUFACTURER	MODEL	LOCATION BLDG	LOCATION ELEV
N1B31SV0444BA	Solenoid Valve	ASCO	NP8316S4V	CTMT	>115'-0"
N1B31SV0444BB	Solenoid Valve	ASCO	NP8316S4V	CTMT	>115'-0"
N1B31SV0445AA	Solenoid Valve	ASCO	NP8316S4V	CTMT	>115'-"
N1B31SV0445AB	Solenoid Valve	ASCO	NP8316S4V	CTMT	>115'-0"
1VBL5020D	Cable			CTMT	>115'-0"
1VAL2035D	Cable			CTMT	>115'-0"
N1B31SV0444BA-B/JB	Junction Box	States Company	Type ZWM	CTMT	>115'-0"
N1B31SV0445AA-A/JB	Junction Box	States Company	Type ZWM	CTMT	>115'-0"
Q1T528038-B	CTMT. Penetrn.	General Electric	100 Series	CTMT	>115'-0"
Q1T528019-A	CTMT. Penetrn.	General Electric	100 Series	CTMT	>115'-0"
9-J02 Field routed	Cable			CTMT	>115'-0"

MASTER LIST

0000330

Joseph M. Farley Nuclear Plant Unit 1

Section C.2.4
Sheet 7

(CLASS 1E ELECTRICAL EQUIPMENT REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS)

SYSTEM: FEEDWATER CONTROL SYSTEM C-22

COMPONENTS					
PLANT ID NUMBER	GENER 3 NAME	MANUFACTURER	MODEL	LOCATION BLDG	ELEV
1VAL5061C	Control Cable			Mn. Stm. Room	≥ 131'
1VBL5034C, D	Control Cables			Mn. Stm. Room	≥ 131'
1VXL5072B	Control Cable			Mn. Stm. Room	≥ 131'
1VAL5062B	Control Cable			Mn. Stm. Room	≥ 131'
1VBL5035B, D	Control Cables			Mn. Stm. Room	≥ 131'
1VXL5073A	Control Cable			Mn. Stm. Room	≥ 131'
Q1C22LT474	Level Transmitter	Barton	764	CTMT	159'
Q1C22LT475	Level Transmitter	Barton	764	CTMT	159'
Q1C22LT476	Level Transmitter	Barton	764	CTMT	159'
Q1C22LT484	Level Transmitter	Barton	764	CTMT	159'
Q1C22LT485	Level Transmitter	Barton	764	CTMT	159'
Q1C22LT486	Level Transmitter	Barton	764	CTMT	159'
Q1C22LT494	Level Transmitter	Barton	764	CTMT	159'
Q1C22LT495	Level Transmitter	Barton	764	CTMT	159'
Q1C22LT496	Level Transmitter	Barton	764	CTMT	159'
Q1C22FT474	Flow Transmitter	Foxboro	E13DM	CTMT	180'
Q1C22FT475	Flow Transmitter	Foxboro	E13DM	CTMT	180'
Q1C22FT484	Flow Transmitter	Foxboro	E13DM	CTMT	180'
Q1C22FT485	Flow Transmitter	Foxboro	E13DM	CTMT	180'
Q1C22FT494	Flow Transmitter	Foxboro	E13DM	CTMT	180'
Q1C22FT495	Flow Transmitter	Foxboro	E13DM	CTMT	180'
Q1E22B010	Penetration	General Electric	100 Series	CTMT	142'
Q1E22B012	Penetration	General Electric	100 Series	CTMT	142'
Q1E22B028	Penetration	General Electric	100 Series	CTMT	142'
Q1E22B030	Penetration	General Electric	100 Series	CTMT	142'

GPC-1374 Rev. 6/81

MASTER LIST

0000631

Joseph M. Farley Nuclear Plant Unit 1

Section C.2.4
Sheet 8

(CLASS 1E ELECTRICAL EQUIPMENT REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS)

SYSTEM: FEEDWATER CONTROL SYSTEM C-22

COMPONENTS					
PLANT ID NUMBER	GENERIC NAME	MANUFACTURER	MODEL	LOCATION BLDG.	LOCATION ELEV.
1V1V5002L, M, N	Instrument Cable			CDMT	> 115'
1V2V5002L, M, N	Instrument Cable			CDMT	> 115'
1V3V5002H, J, K, L, M, N	Instrument Cable			CDMT	> 115'
1V4V5002A, B, C	Instrument Cable			CDMT	> 115'

MASTER LIST

Joseph M. Farley Nuclear Plant Unit 1

0060632

Section C.2.4
Sheet 9

(CLASS 1E ELECTRICAL EQUIPMENT REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS)

SYSTEM: FEEDWATER CONTROL SYSTEM C-22

COMPONENT					
PLANT ID NUMBER	GENERIC NAME	MANUFACTURER	MODEL	LOCATION BLDG.	ELEV.
N1C22S0478 (FCV478)	Limit Switch	NAMCO	EA-170	Mn. Stm Room	N 131'
N1C22SV0478A (FCV478)	Solenoid Valve	ASCO	HT8300B58RU	Mn. Stm Room	N 131'
N1C22SV0478B (FCV478)	Solenoid Valve	ASCO	HT8300B58RU	Mn. Stm Room	N 131'
N1C22S0488 (FCV488)	Limit Switch	NAMCO	EA-170	Mn. Stm Room	N 131'
N1C22SV0488A (FCV488)	Solenoid Valve	ASCO	HT8300B58RU	Mn. Stm Room	N 131'
N1C22SV0488B (FCV488)	Solenoid Valve	ASCO	HT8300B58RU	Mn. Stm Room	N 131'
N1C22S0498 (FCV498)	Limit Switch	NAMCO	EA-170	Mn. Stm Room	N 131'
N1C22SV0498A (FCV498)	Solenoid Valve	ASCO	HT8300B58RU	Mn. Stm Room	N 131'
N1C22SV0498B (FCV498)	Solenoid Valve	ASCO	HT8300B58RU	Mn. Stm Room	N 131'
N1C22S0479 (FCV479)	Limit Switch	NAMCO	EA-170	Mn. Stm Room	[illegible]
N1C22SV0479A (FCV479)	Solenoid Valve	ASCO	HV-202-301-3U	Mn. Stm Room	130'
N1C22SV0479B (FCV479)	Solenoid Valve	ASCO	HV-202-301-3U	Mn. Stm Room	130'
N1C22S0489 (FCV489)	Limit Switch	NAMCO	EA-170	Mn. Stm Room	N 131'
N1C22SV0489A (FCV489)	Solenoid Valve	ASCO	HV-202-301-3U	Mn. Stm Room	N 131'
N1C22SV0489B (FCV489)	Solenoid Valve	ASCO	HV-202-301-3U	Mn. Stm Room	N 131'
N1C22S0499 (FCV499)	Limit Switch	NAMCO	EA-170	Mn. Stm Room	N 131'
N1C22SV0499A (FCV499)	Solenoid Valve	ASCO	HV-202-301-3U	Mn. Stm Room	N 131'
N1C22SV0499B (FCV499)	Solenoid Valve	ASCO	HV-202-301-3U	Mn. Stm Room	N 131'
N1C22SV0478A-A/JB	Terminal Block	States Co.	Type ZWM	Mn. Stm Room	N 131'
N1C22SV0488A-A/JB	Terminal Block	States Co.	Type ZWM	Mn. Stm Room	N 131'
N1C22SV0498A-A/JB	Terminal Block	States Co.	Type ZWM	Mn. Stm Room	N 131'
[illegible]	Control Cable			Mn. Stm Room	N 131'
[illegible]	Control Cable			Mn. Stm Room	N 131'
[illegible]	Control Cable			Mn. Stm Room	N 131'

OPD-1274 Rev 6/81

U2YY3 1/JU

0000033

MASTER LIST

Joseph M. Farley Nuclear Plant Unit 1

△ New Sheet
Section 5
Sheet 10

CLASS 1E ELECTRICAL EQUIPMENT REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS)

SYSTEM: D21 - High Range Containment Radiation NUREG-0737, II.F.1.3

COMPONENT				LOCATION	
PLANT ID NUMBER	GENERIC NAME	MANUFACTURER	MODEL	BLDG	ELEV.
1VA150111E	Cable			CI	15'-0"
1VA150110	Cable			CTMT	>115'-0"
Q1D21RE0027A-A	Radiation Detector	Victoreen	877-1	CTMT	>115'-0"
1VB150095E	Cable			CTMT	>115'-0"
1VB150096	Cable			CTMT	>115'-0"
Q1D21RE0027B-B	Radiation Detector	Victoreen	877-1	CTMT	>115'-0"
Q1T52B009-A	CTMT Penetrn.	Westinghouse		CTMT	>115'-0"
Q1T52B011-B	CTMT Penetrn.	Westinghouse		CTMT	>115'-0"
Note 1 - Cables have been qualified along with detector.					

U2 9 9 3 0 1 / 5 1

Joseph M. Farley Nuclear Plant Unit 1

Section C.2.5
Page 11
0060534

(CLASS IE ELECTRICAL EQUIPMENT REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS)

SYSTEM: SAFEGUARD SYSTEMS, RHR LHSI

E-11

COMPONENTS					
PLANT ID NUMBER	GENERIC NAME	MANUFACTURER	MODEL	LOCATION BLDG	LOCATION ELEV.
Q1E11LT3594A	Level Transmitter	Gems	XM-36495	CTMT	116'-0"
Q1E11LT3594B	Level Transmitter	Gems	XM-36495	CTMT	116'-0"
Q1T52B006	Penetration	General Electric	100 Series	CTMT	143'-0"
Q1T52B020	Penetration	General Electric	100 Series	CTMT	143'-0"
1VA15009F	Control Cable			CTMT	≥115'
1VB15008C	Control Cable			CTMT	≥115'

GPC-1374 Rev 5/81

MASTER LIST

Joseph M. Farley Nuclear Plant Unit 1

0060035

Section C.2.6
Sheet 12

(CLASS 1E ELECTRICAL EQUIPMENT REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS)

SYSTEM: CONTAINMENT COOLING AND PURGE

F-12, F-14, F-13

COMPONENT				LOCATION	
PLANT ID NUMBER	GENERIC NAME	MANUFACTURER	MODEL	BLDG.	ELEV.
Q1E14V002(MOV3660)	1" Motor Operated Globe Valve	Limitorque	SMB-000	CTMT	136'6"
Q1E14V004(MOV3318B)	1" Motor Operated Globe Valve	Limitorque	SMB-000	CTMT	116'-0"
Q1P13ZS3196(HV3196)	Limit Switch	NAMCO	EA-180	CTMT	129'-0"
Q1P13SV2867D(HV2867D)	Solenoid Valve	ASCO	NP8316S4V	CTMT	129'-0"
Q1P13ZS2867B(HV2867D)	Limit Switch	NAMCO	EA-740	CTMT	129'-0"
Q1P13ZS3197(HV3197)	Limit Switch	NAMCO	EA-180	CTMT	129'-0"
Q1P13SV2866B(HV2866)	Solenoid Valve	ASCO	NP8316S4V	CTMT	129'-0"
Q1P13ZS2866D(HV2866)	Limit Switch	NAMCO	EA-740	CTMT	129'-0"
Q1E12SV3999A(HV3999A)	Solenoid Valve	ASCO	NP8316A74E	CTMT	<105'
Q1E12ZS3999A(HV3999A)	Limit Switch	NAMCO	EA-180	CTMT	<105'
Q1E12SV3999B(HV3999B)	Solenoid Valve	ASCO	NP8316A74E	CTMT	<105'
Q1E12ZS3999B(HV3999B)	Limit Switch	NAMCO	EA-180	CTMT	<105'
Q1E12M001A(H001A)	CTMT Clr. Fan Motor	Joy Mfg. Co.	Type P	CTMT	155'-0"
Q1E12M001B(H001B)	CTMT Clr. Fan Motor	Joy Mfg. Co.	Type P	CTMT	155'-0"
Q1E12M001C(H001C)	CTMT Clr. Fan Motor	Joy Mfg. Co.	Type P	CTMT	155'-0"
Q1E12M001D(H001D)	CTMT Clr. Fan Motor	Joy Mfg. Co.	Type P	CTMT	155'-0"
Q1T52B005	Penetration	General Electric	100 Series	CTMT	143'-0"
Q1T52B007	Penetration	General Electric	100 Series	CTMT	143'-0"
Q1T52B019	Penetration	General Electric	100 Series	CTMT	143'-0"
Q1T52B002	Penetration	General Electric	100 Series	CTMT	143'-0"
Q1T52B006	Penetration	General Electric	100 Series	CTMT	143'-0"
Q1T52B041	Penetration	General Electric	100 Series	CTMT	143'-0"
Q1T52B020	Penetration	General Electric	100 Series	CTMT	143'-0"

QPD-1374 Rev. 6/81

MASTER LIST

Joseph M. Farley Nuclear Plant Unit 1

(CLASS 1E ELECTRICAL EQUIPMENT REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS)

SYSTEM: CONTAINMENT COOLING AND PURGE — R-12, R-14, R-13

COMPONENTS					
PLANT ID NUMBER	GENERIC NAME	MANUFACTURER	MODEL	LOCATION BLDG.	LOCATION ELEV.
Q1P13SV3196-B/JB	Terminal Block	States Co.	Type ZWM	CTMT	> 115'
Q1T52B022	Penetration	General Electric	100 Series	CTMT	143'
Q1P13SV2867B-B/JB	Terminal Block	States Co.	Type ZWM	CTMT	> 115'
Q1P13SV3197-B/JB	Terminal Block	States Co.	Type ZWM	CTMT	> 115'
Q1P13SV2866B-B/JB	Terminal Block	States Co.	Type ZWM	CTMT	> 115'
Q1E12SV3999A-A/JB	Terminal Block	States Co.	Type ZWM	CTMT	< 115'
Q1T52B025	Penetration	General Electric	100 Series	CTMT	143'
Q1E12SV3999B-B/JB	Terminal Block	States Co.	Type ZWM	CTMT	< 115'
Q1T52B001	Penetration	General Electric	100 Series	CTMT	143'
Q1T52B023	Penetration	General Electric	100 Series	CTMT	143'
1VAFU-R5Q	Power Cable			CTMT	> 115'
1VAFU-R5D	Control Cable			CTMT	> 115'
1VAQ5048F	Control Cable			CTMT	> 115'
1VXR5005H	Control Cable			CTMT	> 115'
1VAFU-J4Q	Power Cable			CTMT	> 115'
1VAFU-J4D	Control Cable			CTMT	> 115'
1VAQ5009C	Control Cable			CTMT	> 115'
1VYR5066B	Instrument Cable			CTMT	> 115'
1VBL5008C,D,K,L	Control Cables			CTMT	> 115'
1VBQ5010J	Control Cable			CTMT	> 115'
1VYR5035D	Control Cable			CTMT	> 115'
1VBL5008X, W	Control Cables			CTMT	> 115'
1VBQ5012F	Control Cable			CTMT	> 115'
1VYR5035F	Control Cable			CTMT	> 115'
1VAL5122C	Control Cable			CTMT	> 115'

MASTER LIST

0000037
Section C.2.6
Sheet 14

Joseph M. Farley Nuclear Plant Unit 1

(CLASS 1E ELECTRICAL EQUIPMENT REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS)

SYSTEM: CONTAINMENT COOLING AND PURGE — Fa12, Fa14, Fa13

COMPONENTS					
PLANT ID NUMBER	GENERIC NAME	MANUFACTURER	MODEL	LOCATION Bldg.	LOCATION Elev.
1VAQ5029E	Control Cable			CTMT	> 115'
1VBL5094C	Control Cable			CTMT	> 115'
1VBQ5029E	Control Cable			CTMT	> 115'
1VAED15Q	Power Cable			CTMT	> 115'
1VAED16Q	Power Cable			CTMT	> 115'
1VBEE08Q	Power Cable			CTMT	> 115'
1VBEE16Q	Power Cable			CTMT	> 115'

GPO-1274 Rev. 6/81

02993 1755

M...ER LIST

Joseph M. Farley Nuclear Plant Unit 1

Section C.2.7
Sheet 15

(CLASS 1E ELECTRICAL EQUIPMENT REQUIRED TO F...TION UNDER POSTULATED ACCIDENT CONDITIONS)

SYSTEM: HYDROGEN RECOMBINER SYSTEM

E-17

COMPONENTS					
PLANT ID NUMBER *	GENERIC NAME	MANUFACTURER	MODEL	LOCATION BLDG.	LOCATION ELEV.
Q1E17C001A (K001A)	H_2 Recombiner Heater	Westinghouse	Type A	CTMT	155'-0"
Q1E17C001B (K001B)	H_2 Recombiner Heater	Westinghouse	Type A	CTMT	155'-0"
Q1T22B001	Penetration	General Electric	100 Series	CTMT	143'-0"
Q1T22B023	Penetration	General Electric	100 Series	CTMT	143'-0"
Q1T22B024	Penetration	General Electric	100 Series	CTMT	143'-0"
Q1T22B042	Penetration	General Electric	100 Series	CTMT	143'-0"
1VAFALL3T	Power Cable			CTMT	>115'
1VBFERH6T	Power Cable			CTMT	>115'
1VXQ3009B,D,F	Instrument Cables			CTMT	>115'
1VYQ3017B,D,F	Instrument Cables			CTMT	>115'

GPO-1374 Rev. 6/81

MASTER LIST

Joseph M. Farley Nuclear Plant Unit 1

Section C.2.8
Sheet 16

(CLASS IE ELECTRICAL EQUIPMENT REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS)

SYSTEM: CONTAINMENT POST LOCA AIR [illegible] SYSTEM E-19

PLANT ID NUMBER	GENERIC NAME	MANUFACTURER	MODEL	LOCATION BLDG.	LOCATION ELEV.
Q1E19M001A (C001A)	Mixing Fan Motor	Joy Mfg. Co.	Type P	CTMT	155'-0"
Q1E19M001B (C001B)	Mixing Fan Motor	Joy Mfg. Co.	Type P	CTMT	155'-0"
Q1E19M001C (C001C)	Mixing Fan Motor	Joy Mfg. Co.	Type P	CTMT	155'-0"
Q1E19M001D (C001D)	Mixing Fan Motor	Joy Mfg. Co.	Type P	CTMT	155'-0"
Q1T52B002	Penetration	General Electric	100 Series	CTMT	141'-0"
Q1T52B014	Penetration	General Electric	100 Series	CTMT	141'-0"
Q1T52B015	Penetration	General Electric	100 Series	CTMT	141'-0"
Q1T52B017	Penetration	General Electric	100 Series	CTMT	141'-0"
1VAFA-J5Q	Power Cable			CTMT	>115'
1VAFA-I5Q	Power Cable			CTMT	>115'
1VAFA-I4Q	Power Cable			CTMT	>115'
1VAFA-I3Q	Power Cable			CTMT	>115'

GPD-1374 Rev. 6/81

MASTER LIST

Section C.2.9
Sheet 17

Joseph M. Farley Nuclear Plant Unit 1

(CLASS 1E ELECTRICAL EQUIPMENT REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS)

SYSTEM: CRITICAL A/G VOLUME CONTROL/SAFETY INJECTION E-21

COMPONENTS					
PLANT ID NUMBER	GENERIC NAME	MANUFACTURER	MODEL	LOCATION BLDG.	LOCATION ELEV.
Q1E21V038A (MOV8806A)	12" Motor Operated Gate Valve	Limitorque	SMB-4	CTMT	111'-6"
Q1E21V038B (MOV8806B)	12" Motor Operated Gate Valve	Limitorque	SMB-4	CTMT	112'-6"
Q1E21V038C (MOV8806C)	12" Motor Operated Gate Valve	Limitorque	SMB-4	CTMT	113'-6"
Q1E21SV8871 (MV8871)	Solenoid Valve	ASCO	NP#216544V	CTMT	128'-0"
Q1E21ZS8871 (MV8871)	Limit Switch	NAMCO	EA-180	CTMT	128'-0"
Q1E21V249A (MOV8812)	3" Motor Operated Gate Valve	Limitorque	SMB-00	CTMT	123'
N1E21ZS8149A (MV8149A)	Limit Switch	NAMCO	EA-180	CTMT	111'-0"
Q1E21SV8149AB (MV8149A)	Solenoid Valve	ASCO	206-381-6RF	CTMT	111'-0"
N1E21ZS8149B (MV8149B)	Limit Switch	NAMCO	EA-180	CTMT	111'-0"
Q1E21SV8149BB (MV8149B)	Solenoid Valve	ASCO	206-381-6RF	CTMT	111'-0"
N1E21ZS8149C (MV8149C)	Limit Switch	NAMCO	EA-180	CTMT	111'-0"
Q1E21SV8149CB (MV8149C)	Solenoid Valve	ASCO	206-381-6RF	CTMT	111'-0"
Q1T52B002	Penetration	General Electric	100 Series	CTMT	143'-0"
Q1T52B016	Penetration	General Electric	100 Series	CTMT	143'-0"
Q1T52B006	Penetration	General Electric	100 Series	CTMT	143'-0"
Q1T52B018	Penetration	General Electric	100 Series	CTMT	143'-0"
Q1T52B019	Penetration	General Electric	100 Series	CTMT	143'-0"
N1E21SV8871-A/JL	Terminal Block	States Co.	Type ZWM	CTMT	> 116'-0"
Q1E21ZS8808AB	Limit Switch	NAMCO	EA-180	CTMT	111'-6"
Q1E21SZ8808BB	Limit Switch	NAMCO	EA-180	CTMT	112'-6"
Q1E21ZS8808CB	Limit Switch	NAMCO	EA-180	CTMT	113'-6"
Q1T52B014	Penetration	General Electric	100 Series	CTMT	143'-0"
N1E21SV8149AA-A/JB	Terminal Block	States Co.	Type ZWM	CTMT	> 116'-0"
N1E21SV8149BA-A/JB	Terminal Block	States Co.	Type ZWM	CTMT	> 116'-0"

MASTER LIST

Joseph M. Farley Nuclear Plant Unit 1

Section C.2.9
Sheet 18

(CLASS 1E ELECTRICAL EQUIPMENT REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS)

SYSTEM: CHEMICAL AND VOLUME CONTROL/SAFETY INJECTION E-21

COMPONENTS					
PLANT ID NUMBER	GENERIC NAME	MANUFACTURER	MODEL	LOCATION BLDG.	LOCATION ELEV.
1VAL50460	Control Cable			CTMT	> 115'
1VAQ5024C	Control Cable			CTMT	> 115'

MASTER LIST

Section C.2.10
Sheet 19

Joseph M. Farley Nuclear Plant Unit 1

(CLASS 1E ELECTRICAL EQUIPMENT REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS)

SYSTEM: REACTOR CAVITY POST LOCA DILUTION SYSTEM E-22

COMPONENTS					
PLANT ID NUMBER	GENERIC NAME	MANUFACTURER	MODEL	LOCATION BLDG.	LOCATION ELEV.
Q1E22M001A (C001A)	Dilution Fan Motor	Joy Mfg. Co.	Type P	CTMT	129'-0"
Q1E22M001B (C001B)	Dilution Fan Motor	Joy Mfg. Co.	Type P	CTMT	129'-0"
Q1E22V001A (MOV3872A)	2½" Motor Operated Gate Valve	Limitorque	SMB-000	CTMT	130'-0"
Q1E22V001B (MOV3872B)	2½" Motor Operated Gate Valve	Limitorque	SMB-000	CTMT	130'-0"
Q1T52B001	Penetratio..	General Electric	100 Series	CTMT	143'-0"
Q1T52B019	Penetration	General Electric	100 Series	CTMT	143'-0"
Q1T52B023	Penetration	General Electric	100 Series	CTMT	143'-0"
Q1T52B020	Penetration	General Electric	100 Series	CTMT	143'-0"
1VAED06Q	Power Cable			CTMT	>115'
1VAED06E	Control Cable			CTMT	>115'
1VBEE09Q	Power Cable			CTMT	>115'
1VBEE09E	Control Cable			CTMT	>115'

MASTER LIST

Joseph M. Farley Nuclear Plant Unit 1

(CLASS 1E ELECTRICAL EQUIPMENT REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS)

SYSTEM: POST ACCIDENT CONTAINMENT COMBUSTIBLE GAS CONTROL E-21

COMPONENTS					
PLANT ID NUMBER	GENERIC NAME	MANUFACTURER	MODEL	LOCATION BLDG.	LOCATION ELEV.
Q1E23V021 (MOV3536)	2" Motor Operated Gate Valve	Limitorque	SMB-00	CTMT	116'-6"
Q1E23V003 (MOV3530)	6" Motor Operated Gate Valve	Limitorque	SMB-00	CTMT	130'-6"
Q1E23V022A (MOV3528A)	3/4" Motor Operated Globe Valve	Limitorque	SMB-000	CTMT	126'-6"
Q1E23V022B (MOV3528B)	3/4" Motor Operated Globe Valve	Limitorque	SMB-000	CTMT	126'-6"
Q1E23V022C (MOV3528C)	3/4" Motor Operated Globe Valve	Limitorque	SMB-000	CTMT	126'-6"
Q1E23V022D (MOV3528D)	3/4" Motor Operated Globe Valve	Limitorque	SMB-000	CTMT	126'-6"
Q1E23V025A (MOV3825A)	3/4" Motor Operated Globe Valve	Limitorque	SMB-000	CTMT	126'-6"
Q1E23V025B (MOV3825B)	3/4" Motor Operated Globe Valve	Limitorque	SMB-000	CTMT	126'-6"
Q1T52B005	Penetration	General Electric	100 Series	CTMT	143'-0"
Q1T52B017	Penetration	General Electric	100 Series	CTMT	143'-0"
Q1T52B007	Penetration	General Electric	100 Series	CTMT	143'-0"
Q1T52B019	Penetration	General Electric	100 Series	CTMT	143'-0"
Q1T52B020	Penetration	General Electric	100 Series	CTMT	143'-0"
Q1T52B038	Penetration	General Electric	100 Series	CTMT	143'-0"
Q1T52B016	Penetration	General Electric	100 Series	CTMT	143'-0"
Q1T52B015	Penetration	General Electric	100 Series	CTMT	143'-0"
1VAFU-W4Q	Power Cable			CTMT	>115'
1VBFU-N2Q	Power Cable			CTMT	>115'
1VAFU-W4C	Control Cable			CTMT	>115'
1VAED06E	Control Cable			CTMT	>115'
1VBFV-N2C	Control Cable			CTMT	>115'
1VBEE09E	Control Cable			CTMT	>115'
1VBFV-Y5Q	Power Cable			CTMT	>115'
1VBFV-Y5C	Control Cable			CTMT	>115'
1VBFV-Y4Q	Power Cable			CTMT	>115'

MASTER LIST

0060644

Joseph M. Farley Nuclear Plant Unit 1

Section C.2.11
Sheet 21

(CLASS 1E ELECTRICAL EQUIPMENT REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS)

SYSTEM:

COMPONENT					
PLANT ID NUMBER	GENERIC NAME	MANUFACTURER	MODEL	LOCATION BLDG.	LOCATION ELEV.
1VBFV-Y3C	Control Cable			CTMT	>115'
1VAFU-L4Q	Power Cable			CTMT	>115'
1VAFU-L5Q	Power Cable			CTMT	>115'
1VBFV-H4Q	Power Cable			CTMT	>115'
1VBFV-H5Q	Power Cable			CTMT	>115'
1VAFU-L4C	Control Cable			CTMT	>115'
1VAFU-L5C	Control Cable			CTMT	>115'
1VBFV-H4C	Control Cable			CTMT	>115'
1VBFV-H5C	Control Cable			CTMT	>115'
1VAFU-M4Q	Power Cable			CTMT	>115'
1VBFV-M3Q	Power Cable			CTMT	>115'
1VAFU-M4C	Control Cable			CTMT	>115'
1VBFV-M3C	Control Cable			CTMT	>115'

MASTER LIST

Joseph M. Farley Nuclear Plant Unit 1

Section C.2.12
Sheet 22

(CLASS 1E ELECTRICAL EQUIPMENT REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS)

SYSTEM: LIQUID WASTE DISPOSAL SYSTEM G-21

COMPONENTS					
PLANT ID NUMBER	GENERIC NAME	MANUFACTURER	MODEL	LOCATION BLDG.	LOCATION ELEV.
Q1G21SV3376 (HV3376)	Solenoid Valve	ASCO	NP8316A74V	CTMT	109'-0"
Q1G21ZS3376 (HV3376)	Limit Switch	NAMCO	EA-180	CTMT	109'-0"
N1G21Z61003B (LCV1003)	Limit Switch	NAMCO	EA-180	CTMT	110'-0"
N1G21SV1003B (LCV1003)	Solenoid Valve	ASCO	206-381-6RF	CTMT	110'-0"
Q1G21SV7126 (HV7126)	Solenoid Valve	ASCO	NP8316A54V	CTMT	117'-0"
Q1G21ZS7126 (HV7126)	Limit Switch	NAMCO	EA-180	CTMT	117'-0"
Q1T52B038	Penetration	General Electric	100 Series	CTMT	143'-0"
Q1T52B041	Penetration	General Electric	100 Series	CTMT	143'-0"
Q1G21SV3376-B/JB	Terminal Block	States Co.	Type ZWM	CTMT	116'-0"
Q1T52B019	Penetration	General Electric	100 Series	CTMT	143'-0"
N1G21SV1003A-A/JB	Terminal Block	States Co.	Type ZWM	CTMT	≥116'-0"
N1G21SV7126-A/JB	Terminal Block	States Co.	Type ZWM	CTMT	≥116'-0"
1VBL5045C	Control Cable			CTMT	> 115'
1VB05030J	Control Cable			CTMT	> 115'
1VYR5066Q	Instrument Cable			CTMT	> 115'
1VAL5037D	Control Cable			CTMT	> 115'
1VAQ5021J	Control Cable			CTMT	> 115'
1VAL5036C	Control Cable			CTMT	> 115'
1VAQ5020J	Control Cable			CTMT	> 115'

GPD-1374 Rev. 6/81

0293011/63

0060645

MASTER LIST

⚠ New Sheet
Section 7
Sheet 23

Joseph M. Farley Nuclear Plant Unit 1

(CLASS 1E ELECTRICAL EQUIPMENT REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS)

SYSTEM: G-21 - Liquid Waste Disposal (Narrow Range Containment Sump Level)

NUREG-0737, II.F.1.5

COMPONENTS					
PLANT ID NUMBER	GENERIC NAME	MANUFACTURER	MODEL	LOCATION BLDG.	LOCATION ELEV.
Q1G21LT3282A-A	Level Sensor	Gems-Delaval	XM54854	CTMT	80'-0"
Q1G21LT3282B-B	Level Sensor	Gems-Delaval	XM54854	CTMT	80'-0"
1VA15023A	Control Cable			CTMT	Various
1VB15023A	Control Cable			CTMT	Various
Q1T52B007-A	Control Penetration	General Electric	100 Series	CTMT	>115'-0"
Q1T52B022-B	Control Penetration	General Electric	100 Series	CTMT	>115'-0"

GPO-1274 Rev. 8/81

MASTER LIST

Joseph M. Farley Nuclear Plant Unit 1

Section C.2.13
Sheet 24

(CLASS 1E ELECTRICAL EQUIPMENT REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS)

SYSTEM: MAIN STEAM N-11

COMPONENTS					
PLANT ID NUMBER	GENERIC NAME	MANUFACTURER	MODEL	LOCATION	
				BLDG.	ELEV.
Q1N11ZS3369A (HV3369A)	Limit Switch	NAMCO	EA-180	Mn. Stm. Room	128'
Q1N11SV3369AC (HV3369A)	Solenoid Valve	ASCO	NP8316E36V	Mn. Stm. Room	≥131'
Q1N11ZS3369B (HV3369B)	Limit Switch	NAMCO	EA-180	Mn. Stm. Room	128'
Q1N11SV3369BC (HV3369B)	Solenoid Valve	ASCO	NP8316E36V	Mn. Stm. Room	≥131'
Q1N11ZS3369C (HV3369C)	Limit Switch	NAMCO	EA-180	Mn. Stm. Room	128'
Q1N11SV3369CC (HV3369C)	Solenoid Valve	ASCO	NP8316E36V	Mn. Stm. Room	≥131'
Q1N11ZS3370A (HV3370A)	Limit Switch	NAMCO	EA-180	Mn. Stm. Room	128'
Q1N11SV3370AC (HV3370A)	Solenoid Valve	ASCO	NP8316E36V	Mn. Stm. Room	≥131'
Q1N11ZS3370B (HV3370B)	Limit Switch	NAMCO	EA-180	Mn. Stm. Room	128'
Q1N11SV3370BC (HV3370B)	Solenoid Valve	ASCO	NP8316E36V	Mn. Stm. Room	≥131'
Q1N11ZS3370C (HV3370C)	Limit Switch	NAMCO	EA-180	Mn. Stm. Room	128'
Q1N11SV3370CC (HV3370C)	Solenoid Valve	ASCO	NP8316E36V	Mn. Stm. Room	≥131'
Q1N11ZS3368A (HV3368A)	Limit Switch	NAMCO	EA-180	Mn. Stm. Room	≥131'
Q1N11SV3368AA (HV3368A)	Solenoid Valve	ASCO	NP8321A2V	Mn. Stm. Room	≥131'
Q1N11ZS3368B (HV3368B)	Limit Switch	NAMCO	EA-180	Mn. Stm. Room	≥131'
Q1N11SV3368BA (HV3368B)	Solenoid Valve	ASCO	NP8321A2V	Mn. Stm. Room	≥131'
Q1N11ZS3368C (HV3368C)	Limit Switch	NAMCO	EA-180	Mn. Stm. Room	≥131'
Q1N11SV3368CA (HV3368C)	Solenoid Valve	ASCO	NP8321A2V	Mn. Stm. Room	≥131'
Q1N11SV3976A (HV3976A)	Solenoid Valve	ASCO	NP8321A2V	Mn. Stm. Room	≥131'
Q1N11ZS3976A (HV3976A)	Limit Switch	NAMCO	EA-180	Mn. Stm. Room	≥131'
Q1N11SV3976B (HV3976B)	Solenoid Valve	ASCO	NP8321A2V	Mn. Stm. Room	≥131'
Q1N11ZS3976B (HV3976B)	Limit Switch	NAMCO	EA-180	Mn. Stm. Room	≥131'
Q1N11SV3976C (HV3976C)	Solenoid Valve	ASCO	NP8321A2V	Mn. Stm. Room	≥131'
Q1N11ZS3976C (HV3976C)	Limit Switch	NAMCO	EA-180	Mn. Stm. Room	≥131'
Q1N11SV3369AA-A/JR	Terminal Block	States Co.	Type 2WM	Mn. Stm. Room	≥131'

GPD-1374 Rev. 6/81

0060048

MASTER LIST

Section C.2.13
Sheet 25

Joseph M. Farley Nuclear Plant Unit 1

(CLASS 1E ELECTRICAL EQUIPMENT REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS)

SYSTEM: MAIN STEAM M-11

COMPONENTS					
PLANT ID NUMBER	GENERIC NAME	MANUFACTURER	MODEL	LOCATION BLDG	LOCATION ELEV.
1VBL5023B	Control Cable			Aux. Stm. Room	≥ 131'
1VBQ5017F	Control Cable			Aux. Stm. Room	≥ 131'
Q1N11LT477	Level Transmitter	Barton	764	CTMT	129'
Q1N11LT487	Level Transmitter	Barton	764	CTMT	129'
Q1N11LT497	Level Transmitter	Barton	764	CTMT	129'
Q1T52B040	Penetration	General Electric	100 Series	CTMT	143'-0"
Q1T52B041	Penetration	General Electric	100 Series	CTMT	143'-0"
1VXV5013L	Instrument Cable			CTMT	≥ 115'-0"
1VXV5014H,J	Instrument Cable			CTMT	≥ 115'-0"

QPD-1374 Rev. 6/81

MASTER LIST

0060048

Joseph M. Farley Nuclear Plant Unit 1

Section C.2.14
Sheet 15

(CLASS 1E ELECTRICAL EQUIPMENT REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS)

SYSTEM: AUXILIARY STEAM N-12

COMPONENTS					
PLANT ID NUMBER	GENERIC NAME	MANUFACTURER	MODEL	LOCATION BLDG.	LOCATION ELEV.
Q1N12SV3234A (HV3234A)	Solenoid Valve	ASCO	NP8320A186V	MN. STM ROOM	≥ 131'
Q1N12ZS3234A (HV3434A)	Limit Switch	NAMCO	EA-180	MN. STM ROOM	≥ 131'
Q1N12SV3234B (HV3234B)	Solenoid Valve	ASCO	NP8320A186V	MN. STM ROOM	≥ 131'
Q1N12ZS3234B (HV3234B)	Limit Switch	NAMCO	EA-180	MN. STM ROOM	≥ 131'
Q1N12SV3235A (HV3235A)	Solenoid Valve	ASCO	NP8321A2V	MN. STM ROOM	≥ 131'
Q1N12ZS3235A (HV3235A)	Limit Switch	NAMCO	EA-180	MN. STM ROOM	≥ 131'
Q1N12SV3235B (HV3235B)	Solenoid Valve	ASCO	NP8321A2V	MN. STM ROOM	≥ 131'
Q1N12ZS3235B (HV3235B)	Limit Switch	NAMCO	EA-180	MN. STM ROOM	≥ 131'
Q1N12SV3234A-A/JB	Terminal Block	States Co.	Type ZWM	MN. STM ROOM	≥ 131'
Q1N12SV3234B-B/JB	Terminal Block	States Co.	Type ZWM	MN. STM ROOM	≥ 131'
Q1N12SV3235A-A/JB	Terminal Block	States Co.	Type ZWM	MN. STM ROOM	≥ 131'
Q1N12SV3235B-B/JB	Terminal Block	States Co.	Type ZWM	MN. STM ROOM	≥ 131'
1VAL5003B	Control Cable			MN. STM ROOM	≥ 131'
1VAQ5011A	Control Cable			MN. STM ROOM	≥ 131'
1VXR5007F	Control Cable			MN. STM ROOM	≥ 131'
1VBL5007B	Control Cable			MN. STM ROOM	≥ 131'
1VBQ5013B	Control Cable			MN. STM ROOM	≥ 131'
1VYR5033E	Control Cable			MN. STM ROOM	≥ 131'
1VAL5004C	Control Cable			MN. STM ROOM	≥ 131'
1VAQ5010D	Control Cable			MN. STM ROOM	≥ 131'
1VNR5003A,B *	Instrument Cables			MN. STM ROOM	≥ 131'
1VBL5005C	Control Cable			MN. STM ROOM	≥ 131'
1VBQ5011B	Control Cable			MN. STM ROOM	≥ 131'
1VXKJ183C,D,G,H	Control Cables			MN. STM ROOM	≥ 131'

OPD-1374 Rev 6/81

* Was 1VYR5064A & B

MASTER LIST

Joseph M. Farley Nuclear Plant Unit 1

Section C.2.15
Sheet 27

(CLASS 1E ELECTRICAL EQUIPMENT REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS)

SYSTEM: MAIN FEEDWATER AND CONDENSATE M-21

COMPONENTS					
PLANT ID NUMBER	GENERIC NAME	MANUFACTURER	MODEL	LOCATION BLDG.	LOCATION ELEV.
Q1N21V001A-B (MOV3232A)	14" Motor Operated Stop-Check Globe V1	Limitorque	SMB-4T	Mn. Stm. Room	131'
Q1N21V001B-B (MOV3232B)	14" Motor Operated Stop-Check Globe V1	Limitorque	SMB-4T	Mn. Stm. Room	131'
Q1N21V001C-B (MOV3232C)	14" Motor Operated Stop-Check Globe V1	Limitorque	SMB-4T	Mn. Stm. Room	131'
Q1N21LSH2828A	Level Switch	Gems	LS-36497	Mn. Stm. Room	127'-6"
Q1N21LSH2828B	Level Switch	Gems	LS36487	Mn. Stm. Room	127'-6"
Q1N21LSH2828C	Level Switch	Gems	LS-36497	Mn. Stm. Room	127'-6"
Q1N21LSH2829A	Level Switch	Gems	LS-36497	Mn. Stm. Room	127'-6"
Q1N21LSH2829B	Level Switch	Gems	LS-36497	Mn. Stm. Room	127'-6
Q1N21LSH2829C	Level Switch	Gems	LS-36497	Mn. Stm. Room	127'-6"
1TB034	Terminal Block	States Co.	Type ZWM	Mn. Stm. Room	131'
1VAL5129A,B,C,D	Control Cable		...	Mn. Stm. Room	131'
1VBL5092A, B, C	Control Cable		.....	Mn. Stm. Room	131'
1VBFV-K2Q	Power Cable			Mn. Stm. Room	131'
1VBFV-K3Q	Power Cable			Mn. Stm. Room	131'
1VBFV-L2Q	Power Cable			Mn. Stm. Room	131'
1VBFV-K2A	Control Cable			Mn. Stm. Room	131'
1VBFV-K3A	Control Cable			Mn. Stm. Room	131'
1VBFV-L2A	Control Cable			Mn. Stm. Room	131'

QFD-1374 Rev. 6/81

MASTER LIST

Section C.2.16
Sheet 28

Joseph M. Farley Nuclear Plant Unit 1

(CLASS 1E ELECTRICAL EQUIPMENT REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS)

SYSTEM: AUXILIARY FEEDWATER N-23

COMPONENTS					
PLANT ID NUMBER	GENERIC NAME	MANUFACTURER	MODEL	LOCATION BLDG.	LOCATION ELEV.
Q1N23V011A (MOV3350A)	4" Motor Operated Stop-Check Globe VI	Limitorque	SMB-1	Mn. Stm Room	≥ 131'
Q1N23V011B (MOV3350B)	4" Motor Operated Stop-Check Globe VI	Limitorque	SMB-1	Mn. Stm Room	≥ 131'
Q1N23V011C (MOV3350C)	4" Motor Operated Stop-Check Globe VI	Limitorque	SMB-1	Mn. Stm Room	≥ 131'
Q1N23ZS3228A (HV3228A)	Limit Switch	NAMCO	EA-180	Mn. Stm Room	≥ 131'
Q1N23SV3228AA (HV3228A)	Solenoid Valve	ASCO	NP8320A196E	Mn. Stm Room	≥ 131'
Q1N23ZS3228B (HV3228B)	Limit Switch	NAMCO	EA-180	Mn. Stm Room	≥ 131'
Q1N23SV3228BA (HV3228B)	Solenoid Valve	ASCO	NP8320A196E	Mn. Stm Room	≥ 131'
Q1N23ZS3228C (HV3228C)	Limit Switch	NAMCO	EA-180	Mn. Stm Room	≥ 131'
Q1N23SV3228CA (HV3228C)	Solenoid Valve	ASCO	NP8320A196E	Mn. Stm Room	≥ 131'
Q1N23ZS3227A (HV3227A)	Limit Switch	NAMCO	EA-180	Mn. Stm Room	≥ 131'
Q1N23SV3227AA (HV3227A)	Solenoid Valve	ASCO	NP8320A196E	Mn. Stm Room	≥ 131'
Q1N23ZS3227B (HV3227B)	Limit Switch	NAMCO	EA-180	Mn. Stm Room	≥ 131'
Q1N23SV3227BA (HV3227B)	Solenoid Valve	ASCO	NP8320A196E	Mn. Stm Room	≥ 131'
Q1N23ZS3227C (HV3227C)	Limit Switch	NAMCO	EA-180	Mn. Stm Room	≥ 131'
Q1N23SV3227CA (HV3227C)	Solenoid Valve	ASCO	NP8320A196E	Mn. Stm Room	≥ 131'
Q1N23SV3228AA-A/JB	Terminal Block	States Co.	Type TWM	Mn. Stm Room	≥ 131'
Q1N23SV3228BA-A/JB	Terminal Block	States Co.	Type TWM	Mn. Stm Room	≥ 131'
Q1N23SV3228CA-A/JB	Terminal Block	States Co.	Type TWM	Mn. Stm Room	≥ 131'
Q1N23SV3227AA-A/JB	Terminal Block	States Co.	Type TWM	Mn. Stm Room	≥ 131'
Q1N23SV3227BA-A/JB	Terminal Block	States Co.	Type TWM	Mn. Stm Room	≥ 131'
Q1N23SV3227CA-A/JB	Terminal Block	States Co.	Type TWM	Mn. Stm Room	≥ 131'
1VAFU-U-Q	Power Cable			Mn. Stm Room	≥ 131'
1VAFU-U3Q	Power Cable			Mn. Stm Room	≥ 131'
1VAFU-12Q	Power Cable			Mn. Stm Room	≥ 131'
1VAFU-U4A, D	Control Cables			Mn. Stm Room	≥ 131'

MASTER LIST

Joseph M. Farley Nuclear Plant Unit 1

(CLASS 1E ELECTRICAL EQUIPMENT REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS)

SYSTEM: AUXILIARY FEEDWATER N-23

COMPONENTS					
PLANT ID NUMBER	GENERIC NAME	MANUFACTURER	MODEL	LOCATION BLDG.	LOCATION ELEV.
1VAFU-U5A, D	Control Cables			Mn. Stm Room	≥ 131'
1VAFU-I2A, D	Control Cables			Mn. Stm Room	≥ 131'
1VAL5007B	Control Cable			Mn. Stm Room	≥ 131'
1VAL5008B	Control Cable			Mn. Stm Room	≥ 131'
1VAL5009B	Control Cable			Mn. Stm Room	≥ 131'
1VAL5007C	Instrument Cable			Mn. Stm Room	≥ 131'
1VAL5008C	Instrument Cable			Mn. Stm Room	≥ 131'
1VAL5009C	Instrument Cable			Mn. Stm Room	≥ 131'
1VAQ5010E, K	Control Cables			Mn. Stm Room	≥ 131'
1VAQ5012E, K	Control Cables			Mn. Stm Room	≥ 131'
1VAQ5014E, K	Control Cables			Mn, Stm Room	≥ 131'
1VXR5007K, L, M	Control Cables			Mn. Stm oom	≥ 131'
1VAL5013C	Control Cable			Mn. Stm Room	≥ 131'
1VAL5014C	Control Cable			Mn. Stm Room	≥ 131'
1VAL5015C	Control Cable			Mn. Stm Room	≥ 131'
1VAL5013D	Instrument Cable			Mn. Stm Room	≥ 131'
1VAL5014D	Instrument Cable			Mn. Stm Room	≥ 131'
1VAL5015D	Instrument Cable			Mn. Stm Room	≥ 131'
1VAQ5048H, K	Control Cables			Mn. Stm Room	≥ 131'
1VAQ5006C, H	Control Cables			Mn. Stm Room	≥ 131'
1VAQ5008C, H	Control Cables			Mn. Stm Room	≥ 131'
1VXR5007G, H, J	Control Cables			Mn. Stm Room	≥ 131'

MASTER LIST

0060653
Section C.2.17
Sheet 20

Joseph M. Farley Nuclear Plant Unit 1

(CLASS 1E ELECTRICAL EQUIPMENT REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS)

SYSTEM: CHEMICAL INJECTION SYSTEM M-25

COMPONENTS					
PLANT ID NUMBER	GENERIC NAME	MANUFACTURER	MODEL	LOCATION BLDG.	LOCATION ELEV.
Q1N25SV3772A (HV3772A)	Solenoid Valve	ASCO	NP8316A74V	Mn. Stm. Room	≥ 131'
Q1N25ZS3772A (HV3772A)	Limit Switch	NAMCO	EA-180	Mn. Stm. Room	≥ 131'
Q1N25SV3772B (HV3772B)	Solenoid Valve	ASCO	NP8316A74V	Mn. Stm. Room	≥ 131'
Q1N25ZS3772B (HV3772B)	Limit Switch	NAMCO	EA-180	Mn. Stm. Room	≥ 131'
Q1N25SV3772C (HV3772C)	Solenoid Valve	ASCO	NP8316A74V	Mn. Stm. Room	≥ 131'
Q1N25ZS3772C (HV3772C)	Limit Switch	NAMCO	EA-180	Mn. Stm. Room	≥ 131'
Q1N25SV3772A-A/JB	Terminal Block	States Co.	Type ZWM	Mn. Stm. Room	≥ 131'
Q1N25SV3772B-A/JB	Terminal Block	States Co.	Type ZWM	Mn. Stm. Room	≥ 131'
Q1N25SV3772C-A/JB	Terminal Block	States Co.	Type ZWM	Mn. Stm. Room	≥ 131'
1VAL5076A	Control Cable			Mn. Stm. Room	≥ 131'
1VAL5077A	Control Cable			Mn. Stm. Room	≥ 131'
1VAL5078A	Control Cable			Mn. Stm. Room	≥ 131'
1VAQ5030E	Control Cable			Mn. Stm. Room	≥ 131'
1VAQ5031E	Control Cable			Mn. Stm. Room	≥ 131'
1VAQ5032E	Control Cable			Mn. Stm. Room	≥ 131'
1VXR5008Q, H, J	Control Cable			Mn. Stm. Room	≥ 131'

QFD-1374 Rev. 6/81

0293011711

MASTER LIST

Joseph M. Farley Nuclear Plant Unit 1

(CLASS 1E ELECTRICAL EQUIPMENT REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS)

SYSTEM: SAMPLING SYSTEM P-13

COMPONENTS					
PLANT ID NUMBER	GENERIC NAME	MANUFACTURER	MODEL	LOCATION BLDG.	LOCATION ELEV.
Q1P15SV3103 (HV3103)	Solenoid Valve	ASCO	NP8320A184V	CTMT	129'-0"
Q1P15ZS3103 (HV3103)	Limit Switch	NAMCO	EA-180	CTMT	129'-0"
Q1P15SV3765 (HV3765)	Solenoid Valve	ASCO	NP8320A184V	CTMT	129'-0"
Q1P15ZS3765 (HV3765)	Limit Switch	NAMCO	EA-180	CTMT	129'-0"
Q1P15SV3766 (HV3766)	Solenoid Valve	ASCO	NP8320A184V	CTMT	129'-0"
Q1P15ZS3766 (HV3766)	Limit Switch	NAMCO	EA-180	CTMT	129'-0"
Q1P15SV3179A (HV3179A)	Solenoid Valve	ASCO	NP8320A184V	CTMT	129'-0"
Q1P15ZS3179A (HV3179A)	Limit Switch	NAMCO	EA-180	CTMT	129'-0"
Q1P15SV3179B (HV3179B)	Solenoid Valve	ASCO	NP8320A184V	CTMT	129'-0"
Q1P15ZS3179B (HV3179B)	Limit Switch	NAMCO	EA-180	CTMT	129'-0"
Q1P15SV3179C (HV3179C)	Solenoid Valve	ASCO	NP8320A184V	CTMT	129'-0"
Q1P15ZS3179C (HV3179C)	Limit Switch	NAMCO	EA-180	CTMT	129'-0"
Q1P15SV3180A (HV3180A)	Solenoid Valve	ASCO	NP8320A184V	CTMT	129'-0"
Q1P15ZS3180A (HV3180A)	Limit Switch	NAMCO	EA-180	CTMT	129'-0"
Q1P15SV3180B (HV3180B)	Solenoid Valve	ASCO	NP8320A184V	CTMT	129'-0"
Q1P15ZS3180B (HV3180B)	Limit Switch	NAMCO	EA-180	CTMT	129'-0"
Q1P15SV3180C (HV3180C)	Solenoid Valve	ASCO	NP8320A184V	CTMT	129'-0"
Q1P15ZS3180C (HV3180C)	Limit Switch	NAMCO	EA-180	CTMT	129'-0"
Q1P15SV3181A (HV3181A)	Solenoid Valve	ASCO	NP8320A184V	CTMT	129'-0"
Q1P15ZS3181A (HV3181A)	Limit Switch	NAMCO	EA-180	CTMT	129'-0"
Q1P15SV3181B (HV3181B)	Solenoid Valve	ASCO	NP8320A184V	CTMT	129'-0"
Q1P15ZS3181B (HV3181B)	Limit Switch	NAMCO	EA-180	CTMT	129'-0"
Q1P15SV3181C (HV3181C)	Solenoid Valve	ASCO	NP8320A184V	CTMT	129'-0"
Q1P15ZS3181C (HV3181C)	Limit Switch	NAMCO	EA-180	CTMT	129'-0"
Q1P15SV3104 (HV3104)	Solenoid Valve	ASCO	NP8320A184V	CTMT	129'-0"

QPD-1374 Rev. 6/81

MASTER LIST

Joseph M. Farley Nuclear Plant Unit 1

(CLASS 1E ELECTRICAL EQUIPMENT REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS)

SYSTEM: SAMPLING SYSTEM P-15

COMPONENTS					
PLANT ID NUMBER	GENERIC NAME	MANUFACTURER	MODEL	LOCATION BLDG.	LOCATION ELEV.
Q1P15ES3104 (HV3104)	Limit Switch	NAMCO	EA-180	CTMT	129'-0"
Q1T52B019	Penetration	General Electric	100 Series	CTMT	149'-0"
Q1P15SV3103-A/JB	Terminal Block	States Co.	Type ZWM	CTMT	131'-9"
Q1P15SV3765-A/JB	Terminal Block	Sates Co.	Type ZWM	CTMT	131'-9"
Q1T52B007	Penetration	General Electric	100 Series	CTMT	143'-0"
Q1P15SV3766-A/JB	Terminal Block	States Co.	Type ZWM	CTMT	131'-9"
Q1P15SV3179A-A/JB	Terminal Block	States Co.	Type ZWM	CTMT	131'-9"
Q1P15SV3179B-A/JB	Terminal Block	States Co.	Type ZWM	CTMT	131'-9"
Q1P15SV3179C-B/JB	Terminal Block	States Co.	Type ZWM	CTMT	131'-9"
Q1T52B020	Penetration	General Electric	100 Series	CTMT	143'-0"
Q1P15SV3180A-A/JB	Terminal Block	States Co.	Type ZWM	CTMT	131'-9"
Q1P15SV3180B-A/JB	Terminal Block	States Co.	Type ZWM	CTMT	131'-9"
Q1P15SV3180C-B/JB	Terminal Block	States Co.	Type ZWM	CTMT	131'-9"
Q1P15SV3181A-A/JB	Terminal Block	States Co.	Type ZWM	CTMT	131'-9"
Q1P15SV3181B-A/JB	Terminal Block	States Co.	Type ZWM	CTMT	131'-9"
Q1P15SV3181C-A/JB	Terminal Block	States Co.	Type ZWM	CTMT	131'-9"
Q1P15SV3104-A/JB	Terminal Block	States Co.	Type ZWM	CTMT	131'-9"
1VAL5063B	Control Cable			CTMT	>115'
1VAQ5049H	Control Cable			CTMT	>115'
1VXR5010B	Control Cable			CTMT	>115'
1VAL5065B	Control Cable			CTMT	>115'
1VAQ5032J	Control Cable			CTMT	>115'
1VXR5010F	Control Cable			CTMT	>115'
1VAL5066A	Control Cable			CTMT	>115'
1VAQ5033J	Control Cable			CTMT	>115'

MASTER LIST

Joseph M. Farley Nuclear Plant Unit 1

Section C.2.18
Sheet 33

(CLASS 1E ELECTRICAL EQUIPMENT REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS)

SYSTEM: SAMPLING SYSTEM P-13

COMPONENTS					
PLANT ID NUMBER	GENERIC NAME	MANUFACTURER	MODEL	LOCATION BLDG.	LOCATION ELEV.
1VXR5010H	Control Cable			CDMT	>115'
1VAL5084B	Control Cable			CDMT	>115'
1VAL5085B	Control Cable			CDMT	>115'
1VBL5074B	Control Cable			CDMT	>115'
1VAL5086B	Control Cable			CDMT	>115'
1VAL5087B	Control Cable			CDMT	>115'
1VBL50[illegible]8	Control Cable			CDMT	>115'
1VAL5088B	Control Cable			CDMT	>115'
1VAL5089B	Control Cable			CDMT	>115'
1VBL5074B	Control Cable			CDMT	>115'
1VAL5064B	Control Cable			CDMT	>115'
1VA05047H	Control Cable			CDMT	>115'
1VXR5010D	Control Cable			CDMT	>115'

MASTER LIST

Joseph M. Farley Nuclear Plant Unit 1

(CLASS 1E ELECTRICAL EQUIPMENT REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS)

SYSTEM: SERVICE WATER P-16

COMPONENTS					
PLANT ID NUMBER	GENERIC NAME	MANUFACTURER	MODEL	LOCATION BLDG.	LOCATION ELEV.
Q1P16V207A (MOV3441A)	10" Motor Operated Gate Valve	Limitorque	SMB-00	CTMT	130'-6"
Q1P16V207B (MOV3441B)	10" Motor Operated Gate Valve	Limitorque	SMB-00	CTMT	130'-6"
Q1P16V207C (MOV3441C)	10" Motor Operated Gate Valve	Limitorque	SMB-00	CTMT	122'-6"
Q1P16V207D (MOV3441D)	10" Motor Operated Gate Valve	Limitorque	SMB-00	CTMT	122'-6"
Q1P16V081 (MOV3131)	6" Motor Operated Gate Valve	Limitorque	SMB-00	CTMT	130'-6"
Q1T52B005	Penetration	General Electric	100 Series	CTMT	143'-0"
Q1T52B015	Penetration	General Electric	100 Series	CTMT	143'-0"
Q1T52B007	Penetration	General Electric	100 Series	CTMT	143'-0"
Q1T52B020	Penetration	General Electric	100 Series	CTMT	143'-0"
Q1T52B014	Penetration	General Electric	100 Series	CTMT	143'-0"
Q1T52B019	Penetration	General Electric	100 Series	CTMT	143'-0"
1VBFV-J4Q	Power Cable			CTMT	> 115'
1VBFV-J4D	Control Cable			CTMT	> 115'
1VBQ5007D	Control Cable			CTMT	> 115'
1VYR4006B,D	Control Cables			CTMT	> 115'
1VYKB164B,C	Control Cables			CTMT	> 115'
1VBFV-J5Q	Power Cable			CTMT	> 115'
1VBFV-J5D	Control Cable			CTMT	> 115'
1VBQ5009D	Control Cable			CTMT	> 115'
1VAFV-K4Q	Power Cable			CTMT	> 115'
1VAFV-K4D	Control Cable			CTMT	> 115'
1VAQ5007D	Control Cable			CTMT	> 115'
1VYR5005B,D,F	Control Cables			CTMT	> 115'
1VYKB164B,C	Control Cables			CTMT	> 115'
1VAFV-W2Q	Power Cable			CTMT	> 115'

0060658

MASTER LIST

Joseph M. Farley Nuclear Plant Unit 1

Section C.2.19
Sheet 35

(CLASS 1E ELECTRICAL EQUIPMENT REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS)

SYSTEM: SERVICE WATER P: 6

COMPONENTS					
PLANT ID NUMBER	GENERIC NAME	MANUFACTURER	MODEL	LOCATION BLDG.	LOCATION ELEV.
1VAFU-W2D	Control Cable			CTMT	> 115'
1VAFU-H4Q	Power Cable			CTMT	> 115'
1VAFU-H4A	Control Cable			CTMT	> 115'
1VAQ5002F	Control Cable			CTMT	> 115'

MASTER LIST

Joseph M. Farley Nuclear Plant Unit 1

Section C.2.20
Sheet 25

(CLASS 1E ELECTRICAL EQUIPMENT REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS)

SYSTEM: COMPONENT COOLING WATER P-17

PLANT ID NUMBER	GENERIC NAME	MANUFACTURER	MODEL	LOCATION BLDG.	LOCATION ELEV.
		QC COMPONENTS			
Q1P17V097 (MOV3046)	6" Motor Operated Gate Valve	Limitorque	SMB-00	CTMT	130'-6"
Q1P17SV3184 (HV3184)	Solenoid Valve	ASCO	NP8316A76V	CTMT	122'-6"
Q1P17ZS3184 (HV3184)	Limit Switch	NAMCO	EA-180	CTMT	122'-6"
Q1P17SV3443 (HV3443)	Solenoid Valve	ASCO	NP8316A74V	CTMT	129'-0"
Q1P17ZS3443 (HV3443)	Limit Switch	NAMCO	EA-180	CTMT	129'-0"
Q1T52B016	Penetration	General Electric	100 Series	CTMT	143'-0"
Q1T52B038	Penetration	General Electric	100 Series	CTMT	143'-0"
Q1T52B020	Penetration	General Electric	100 Series	CTMT	143'-0"
Q1P17SV3184-B/JB	Terminal Block	States Co.	Type ZWM	CTMT	> 115'-0"
Q1T52B019	Penetration	General Electric	100 Series	CTMT	143'-0"
Q1T52B041	Penetration	General Electric	100 Series	CTMT	143'-0
Q1P17SV3443-A/JB	Terminal Block	States Co.	Type ZWM	CTMT	> 115'-0"
1VBFV-C3Q	Power Cable			CTMT	> 115'
1VBFV-C3D	Control Cable			CTMT	> 115'
1VBQ5017C	Control Cable			CTMT	> 115'
1VYR5006F	Control Cable			CTMT	> 115'
1VBL5009C,D,E,F	Control Cables			CTMT	> 115'
1VBQ5017H	Control Cable			CTMT	> 115'
1VYR5035B	Control Cable			CTMT	> 115'
1VAL5055C	Control Cable			CTMT	> 115'
1VAQ5029H	Control Cable			CTMT	> 115'
1VYR5064F	Control Cable			CTMT	> 115'

QPD-1374 Rev. 6/81

U2993 1/77

APPENDIX II

MASTER LIST OF ENVIRONMENTAL QUALIFIED EQUIPMENT

UNIT 3

0060661

LIST OF EFFECTIVE PAGES

PAGE NO.	REVISION NO.											
	0	1	2	3	4	5	6	7	8	9	10	11
1	X											
2	X											
3	X											
4	X											
5	X											
6	X											
7	X											
8	X											
9	X											
10	X											
11	X											
12	X											
13	X											
14	X											
15	X											
16	X											
17	X											
18	X											
19	X											
20	X											
21	X											
22	X											
23	X											
24	X											
25	X											

PAGE NO.	REVISION NO. 0	1	2	3	4	5	6	7	8	9	10	11
26	X											
27	X											
28	X											
29	X											
30	X											
31	X											
32	X											
33	X											
34	X											
35	X											
36	X											
37	X											
38	X											
39	X											

MASTER LIST

Joseph M. Farley Nuclear Plant Unit 2

Section C.2.1
Sheet 1

0060663

(CLASS 1E ELECTRICAL EQUIPMENT REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS)

SYSTEM: REACTOR COOLANT INSTRUMENTATION

B-13

COMPONENTS					
PLANT ID NUMBER	GENERIC NAME	MANUFACTURER	MODEL	LOCATION	
				BLDG	ELEV
N2B13TE412B	RTD	Rosemount	176KF	CTMT	124'-0"
N2B13TE412D	RTD	Rosemount	176KF	CTMT	124'-0"
N2B13TE422B	RTD	Rosemount	176KF	CTMT	124'-0"
N2B13TE422D	RTD	Rosemount	176KF	CTMT	124'-0"
N2B13TE432B	RTD	Rosemount	176KF	CTMT	124'-0"
N2B13TE432D	RTD	Rosemount	176KF	CTMT	124'-0"
02T52B012	Penetration	General Electric	100 Series	CTMT	143'-0"
02T52B028	Penetration	General Electric	100 Series	CTMT	143'-0"
02T52B030	Penetration	General Electric	100 Series	CTMT	143'-0"
12TB001	Terminal Block	States Co.	Type ZWM	CTMT	124'-0"
12TB002	Terminal Block	States Co.	Type ZWM	CTMT	124'-0"
22TB003	Terminal Block	States Co.	Type ZWM	CTMT	124'-0"
22TB004	Terminal Block	States Co.	Type ZWM	CTMT	124'-0"
32TB001	Terminal Block	States Co.	Type ZWM	CTMT	124'-0"
32TB002	Terminal Block	States Co.	Type ZWM	CTMT	124'-0"
2V1V5002B, D	Instr. Cables			CTMT	124'-0"
2V2V5002B, D	Instr. Cables			CTMT	124'-0"
2V3V5002B, D	Instr. Cables			CTMT	124'-0"

GAD-1374 1/80

U2930 1/81

0060664

MASTER LIST

△ New Sheet
Section 2
Sheet 2

Joseph M. Farley Nuclear Plant Unit 2

(CLASS IE ELECTRICAL EQUIPMENT REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS)

SYSTEM: Reactor Coolant System (Head Vent) NUREG-0737, II.B.1

COMPONENTS					
PLANT ID NUMBER	GENERIC NAME	MANUFACTURER	MODEL	LOCATION BLDG.	LOCATION ELEV.
Q2B13SV2213A	Solenoid Valve	Target	79AB001	CTMT	> 115'-0"
Q2B13SV2213B	Solenoid Valve	Target	79AB001	CTMT	> 115'-0"
Q2B13SV2214A	Solenoid Valve	Target	79AB001	CTMT	> 115'-0"
Q2B13SV2214B	Solenoid Valve	Target	79AB001	CTMT	> 115'-0"
Q2T52B014-A	Control Penetration	General Electric	100 Series	CTMT	> 115'-0"
2VAL5145B	Control Cable			CTMT	> 115'-0"
2VAL5145C	Control Cable			CTMT	> 115'-0"
A2TB007	Terminal Block	States	Type ZWM	CTMT	> 115'-0"
Q2B13SV2213A-A/JB	Terminal Block	States	Type ZWM	CTMT	> 115'-0"
2VAL5146B	Control Cable			CTMT	> 115'-0"
2VAL5146C	Control Cable			CTMT	> 115'-0"
Q2B13SV2214A/JB	Terminal Block	States	Type ZWM	CTMT	> 115'-0"
Q2T52B016-B	Control Penetration	General Electric	100 Series	CTMT	> 115'-0"
2VBL5145B	Control Cable			CTMT	> 115'-0"
2VBL5145C	Control Cable			CTMT	> 115'-0"
[illegible]	Terminal Block	States	Type ZWM	CTMT	> 115'-0"
Q2B13SV2213B-B/JB	Terminal Block	States	Type ZWM	CTMT	> 115'-0"
2VBL5146B	Control Cable			CTMT	> 115'-0"
2VBL5146C	Control Cable			CTMT	> 115'-0"
Q2B13SV2214B-B/JB	Terminal Block	States	Type ZWM	CTMT	> 115'-0"

GPD-1274 Rev. 6/81

0060665

MASTER LIST

⚠ New Sheet
Section 4
Sheet 2

Joseph M. Farley Nuclear Plant Unit 2

(CLASS 1E ELECTRICAL EQUIPMENT REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS)

SYSTEM: B13/B21 Pressurizer Safety Valve Position Indication NUREG-0737, II.D.3

CONTAINMENT

PLANT ID NUMBER	GENERIC NAME	MANUFACTURER	MODEL	LOCATION BLDG	LOCATION ELEV.
2VYKH174A	Cable			CTMT	>115'-0"
Q2B13D001-B	Terminal Box	States Company	Type ZWM	CTMT	>115'-0"
2VBL5099G	Cable			CTMT	>115'-0"
2VBL5099H	Cable			CTMT	>115'-0"
2VBL5099J	Cable			CTMT	>115'-0"
Q2T52X023-B	Cimt. Penet.	General Electric	100 Series	CTMT	>115'-0"
Q2T52B022-B	Cimt. Penet.	General Electric	100 Series	CTMT	>115'-0"
Q2B13ZS2024	Position switch	NAMCO	EA-180	CTMT	>115'-0"
Q2B13ZS2025	Position switch	NAMCO	EA-180	CTMT	>115'-0"
Q2B13ZS2026	Position switch	NAMCO	EA-180	CTMT	>115'-0"
N2B31ZS04/4B	Limit switch	NAMCO	EA-180	CTMT	>115'-0"
N2B31ZS0445A	Limit switch	NAMCO	EA-180	CTMT	>115'-0"
N2B31SV0444BA-B/JB	Junction Box	States Company	Type ZWM	CTMT	>115'-0"
N2B31SV0445AA-A/JB	Junction Box	States Company	Type ZWM	CTMT	>115'-0"
Q2T52B019-A	Control Pentrn.	General Electric	100 Series	CTMT	>115'-0"
Q2T52B038-B	Control Pentrn.	General Electric	100 Series	CTMT	>115'-0"
2VAL5023D	Control Cable			CTMT	>115'-0"
2VBL5020D	Control Cable			CTMT	>115'-0"
QAT352B007A	Control Penetra.	General Electric	100 Series	CTMT	>115'-0"
1VXKH174A	Cable			CTMT	>115'-0"

GPD-1314 Rev. 6/81

U29935 1/83

MASTER LIST

Joseph M. Farley Nuclear Plant Unit 2

Section C.2.2
Sheet 6

(CLASS 1E ELECTRICAL EQUIPMENT REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS)

SYSTEM: REACTOR COOLANT SYSTEM - STEAM GENERATOR B-21

0060666

COMPONENTS					
PLANT ID NUMBER	GENERIC NAME	MANUFACTURER	MODEL	LOCATION BLDG	LOCATION ELEV
N2B21PT402	Press. Transmitter	Barton	763	CTMT	116'-0"
N2B21PT403	Press. Transmitter	Barton	763	CTMT	116'-0"
N2B21TE410	RTD	Rosemount	176KS	CTMT	122'-9"
N2B21TE413	RTD	Rosemount	176KS	CTMT	122'-9"
N2B21TE420	RTD	Rosemount	176KS	CTMT	122'-9"
N2B21TE423	RTD	Rosemount	176KS	CTMT	122'-9"
N2B21TE430	RTD	Rosemount	176KS	CTMT	122'-9"
N2B21TE433	RTD	Rosemount	176KS	CTMT	122'-9"
Q2T52B040	Penetration	General Electric	100 Series	CTMT	143'-0"
Q2T52B012	Penetration	General Electric	100 Series	CTMT	143'-0"
Q2T52B030	Penetration	General Electric	100 Series	CTMT	143'-0"
12TB001	Terminal Block	States Co.	Type ZWM	CTMT	122'-9"
12TB003	Terminal Block	States Co.	Type ZWM	CTMT	122'-9"
12TB004	Terminal Block	States Co.	Type ZWM	CTMT	122'-9"
22TB001	Terminal Block	States Co.	Type ZWM	CTMT	122'-9"
22TB002	Terminal Block	States Co.	Type ZWM	CTMT	122'-9"
22TB003	Terminal Block	States Co.	Type ZWM	CTMT	122'-9"
2VYV5031B	Instr. Cables			CTMT	122'-9"
2VYV5033F	Instr. Cables			CTMT	122'-9"
2V1V5002E, F, G	Instr. Cables			CTMT	122'-9"
2V2V5002E, F, G	Instr. Cables			CTMT	122'-9"

GPD 12M 1.80

U2993 1/84

Joseph M. Farley Nuclear Plant Unit 2

MASTER LIST

Section C.2.3
Sheet 5

(CLASS 1E ELECTRICAL EQUIPMENT REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS)

SYSTEM REACTOR COOLANT SYSTEM - PRESSURIZER B-31

0260667

COMPONENTS					
PLANT ID NUMBER	GENERIC NAME	MANUFACTURER	MODEL	LOCATION	
				BLDG	ELEV
2B31SV8047 (HV8047)	Solenoid Valve	ASCO	NP8316542	CTMT	118'-0"
N2B31ZS8047 (HV8047)	Limit Switch	NAMCO	EA-180	CTMT	118'-0"
2T52B002	Penetration	General Electric	100 Series	CTMT	147'-0"
2T52B038	Penetration	General Electric	100 Series	CTMT	147'-0"
N2B31SV8047-B/JB	Terminal Block	States Co.	Type ZWM	CTMT	118'-0"
2B31LT459	Level Transmitter	Barton	764	CTMT	116'-0"
2B31LT460	Level Transmitter	Barton	764	CTMT	116'-0"
2B31LT461	Level Transmitter	Barton	764	CTMT	116'-0"
2B31PT455	Pressure Transmitter	Barton	763	CTMT	116'-0"
2B31PT456	Pressure Transmitter	Barton	763	CTMT	116'-0"
2B31PT457	Pressure Transmitter	Barton	763	CTMT	116'-0"
2VBL5078C	Control Cable			CTMT	116'-0" & above
2VBQ5021E	Control Cable			CTMT	116'-0" & above
2T52B012	Penetration	General Electric	100 Series	CTMT	147'-0"
2T52B028	Penetration	General Electric	100 Series	CTMT	147'-0"
2T52B030	Penetration	General Electric	100 Series	CTMT	147'-0"
2T52B040	Penetration	General Electric	100 Series	CTMT	147'-0"
2VYV5031D	Instr. Cable			CTMT	116'-0" & above
2V1V5002U	Instr. Cable			CTMT	116'-0" & above
2V2V5002T, U	Instr. Cables			CTMT	116'-0" & above
2V3V5002T, U	Instr. Cables			CTMT	116'-0" & above

B-1374 1/80

0293 1785

Joseph M. Farley Nuclear Plant Unit 2

MASTER LIST

△ New Sheet
Section 3
Sheet 6

(CLASS 1E ELECTRICAL EQUIPMENT REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS)

SYSTEM: B31- Pressurizer Relief and Safety Valves NUREG-0737, II.D.1

0060662

COMPONENTS					
PLANT ID NUMBER	GENERIC NAME	MANUFACTURER	MODEL	LOCATION BLDG	LOCATION ELEV
N2B31SV0444BA	Solenoid Valve	ASCO	HTX8320A22V	CTMI	>115'-0"
N2B31SV0444BB	Solenoid Valve	ASCO	HTX8320A22V	CTMT	>115'-0"
N2B31SV0445AA	Solenoid Valve	ASCO	HTX8320A22V	CTMT	>115'-"
N2B31SV0445AB	Solenoid Valve	ASCO	HTX8320A22V	CTMT	>115'-0"
2VAL5020D	Cable			CTMT	>115'-0"
2VAL5025D	Cable			CTMT	>115'-0"
N2B31SV0444BA-B/JB	Junction Box	States Company	Type ZWM	CTMT	>115'-0"
N2B31SV0445AA-A/JB	Junction Box	States Company	Type ZWM	CTMT	>115'-0"
02T528038-B	CTMT. Penetrn.	General Electric	100 Series	CTMT	>115'-0"
02T528019-A	CTMT. Penetrn.	General Electric	100 Series	CTMT	>115'-0"
9-J02 Field routed	Cable			CTMT	>115'-0"

GP 8-1274 1/80

02993 1786

Joseph M. Farley Nuclear Plant Unit 2

MASTER LIST

Section C.2.4
Sheet 7

(CLASS 1E ELECTRICAL EQUIPMENT REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS)

SYSTEM: FEEDWATER CONTROL SYSTEM

C-22

00600003

COMPONENTS					
PLANT ID NUMBER	GENERIC NAME	MANUFACTURER	MODEL	LOCATION	
				BLDG	ELEV
N2C22250478 (FCV478)	Limit Switch	NAMCO	EA - 180	Aux. Bldg.	121'-0"
N2C22SV0478A (FCV478)	Solenoid Valve	ASCO	HV-206-381-2RU	Aux. Bldg.	121'-0"
N2C22SV0478B (FCV478)	Solenoid Valve	ASCO	HV-206-381-2RU	Aux. Bldg.	121'-0"
N2C22250488 (FCV488)	Limit Switch	NAMCO	EA-180	Aux. Bldg.	121'-0"
N2C22SV0488A (FCV488)	Solenoid Valve	ASCO	HV-206-381-2RU	Aux. Bldg.	121'-0"
N2C22SV0488B (FCV488)	Solenoid Valve	ASCO	HV-206-381-2RU	Aux. Bldg.	121'-0"
N2C22250498 (FCV498)	Limit Switch	NAMCO	EA-180	Aux. Bldg.	121'-0"
N2C22SV0498A (FCV498)	Solenoid Valve	ASCO	HV-206-381-2RU	Aux. Bldg.	121'-0"
N2C22SV0498B (FCV498)	Solenoid Valve	ASCO	HV-206-381-2RU	Aux. Bldg.	121'-0"
N2C22250479 (FCV479)	Limit Switch	NAMCO	EA-180	Aux. Bldg.	121'-0"
N2C22SV0479A (FCV479)	Solenoid Valve	ASCO	HV-206-381-4U	Aux. Bldg.	121'-0"
N2C22SV0479B (FCV479)	Solenoid Valve	ASCO	HV-206-381-4U	Aux. Bldg.	121'-0"
N2C22250489 (FCV489)	Limit Switch	NAMCO	EA-180	Aux. Bldg.	121'-0"
N2C22SV0489A (FCV489)	Solenoid Valve	ASCO	HV-206-381-4U	Aux. Bldg.	121'-0"
N2C22SV0489B (FCV489)	Solenoid Valve	ASCO	HV-206-381-4U	Aux. Bldg.	121'-0"
N2C22250499 (FCV499)	Limit Switch	NAMCO	EA-180	Aux. Bldg.	121'-0"
N2C22SV0499A (FCV499)	Solenoid Valve	ASCO	HV-206-381-4U	Aux. Bldg.	121'-0"
N2C22SV0499B (FCV499)	Solenoid Valve	ASCO	HV-206-381-4U	Aux. Bldg.	121'-0"
N2C22SV0478A-A/JB	Terminal Block	States Co.	Type ZVN	Aux. Bldg.	121'-0"
N2C22SV0488A-A/JB	Terminal Block	States Co.	Type ZVN	Aux. Bldg.	121'-0"
N2C22SV0498A-A/JB	Terminal Block	States Co.	Type ZVN	Aux. Bldg.	121'-0"
2VAL50608	Control Cable			Aux. Bldg.	121'-0"
2VBL40258	Control Cable			Aux. Bldg.	121'-0"
2VEL5071A	Control Cable			Aux. Bldg.	121'-0"

GPD-1214 1/80

Joseph M. Farley Nuclear Plant Unit 2

MASTER LIST

Section C.2.4
Sheet 8

(CLASS 1E ELECTRICAL EQUIPMENT REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS)

SYSTEM FEEDWATER CONTROL SYSTEM

C-22

COMPONENTS

PLANT ID NUMBER	GENERIC NAME	MANUFACTURER	MODEL	LOCATION	
				BLDG	ELEV
2VAL5061C	Control Cable			Aux. Bldg.	121'-0"
2VBL5034C, D	Control Cables			Aux. Bldg.	121'-0"
2VXL5072B	Control Cable			Aux. Bldg.	121'-0"
2VAL5062B	Control Cable			Aux. Bldg.	121'-0"
2VBL5035B, D	Control Cables			Aux. Bldg.	121'-0"
2VXL5073A	Control Cable			Aux. Bldg.	121'-0"
Q2C22LT474	Level Transmitter	Barton	764	CTMT	121'-0"
Q2C22LT475	Level Transmitter	Barton	764	CTMT	121'-0"
Q2C22LT476	Level Transmitter	Barton	764	CTMT	121'-0"
Q2C22LT484	Level Transmitter	Barton	764	CTMT	121'-0"
Q2C22LT485	Level Transmitter	Barton	764	CTMT	121'-0"
Q2C22LT486	Level Transmitter	Barton	764	CTMT	121'-0"
Q2C22LT494	Level Transmitter	Barton	764	CTMT	121'-0"
Q2C22LT495	Level Transmitter	Barton	764	CTMT	121'-0"
Q2C22LT496	Level Transmitter	Barton	764	CTMT	121'-0"
Q2C22FT474	Flow Transmitter	Barton	764	CTMT	121'-0"
Q2C22FT475	Flow Transmitter	Barton	764	CTMT	121'-0"
Q2C22FT484	Flow Transmitter	Barton	764	CTMT	121'-0"
Q2C22FT485	Flow Transmitter	Barton	764	CTMT	121'-0"
Q2C22FT494	Flow Transmitter	Barton	764	CTMT	121'-0"
Q2C22FT495	Flow Transmitter	Barton	764	CTMT	121'-0"
Q2T52B010	Penetration	General Electric	100 Series	CTMT	121'-0"
Q2T52B012	Penetration	General Electric	100 Series	CTMT	121'-0"
Q2T52B028	Penetration	General Electric	100 Series	CTMT	121'-0"
Q2T52B030	Penetration	General Electric	100 Series	CTMT	121'-0"

BPD-1376 1/BC

Joseph M. Farley Nuclear Plant Unit 2 **MASTER LIST**

Section C.2.4
Sheet 9

(CLASS 1E ELECTRICAL EQUIPMENT REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS)

SYSTEM: FEEDWATER CONTROL SYSTEM

C-22

COMPONENTS					
PLANT ID NUMBER	GENERIC NAME	MANUFACTURER	MODEL	LOCATION BLDG	LOCATION ELEV
2V1V5002L, M, N	Instrument Cable			CDMT	121'-0"
2V2V5002L, M, N	Instrument Cable			CDMT	121'-0"
2V3V5002H, J, K, L, M, N	Instrument Cable			CDMT	121'-0"
2V4V5002A, B, C	Instrument Cable			CDMT	121'-0"

1260309

GPD-1376 1/80

MASTER LIST

Joseph M. Farley Nuclear Plant Unit 2

0060672

△ New Sheet
Section 5
Sheet 10

(CLASS 1E ELECTRICAL EQUIPMENT REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS)

SYSTEM: D21 - High Range Containment Radiation ; NUREG-0737, II.F.1.3

COMPONENT					
PLANT ID NUMBER	GENERIC NAME	MANUFACTURER	MODEL	LOCATION BLDG.	ELEV.
2VA15011E	Cable			CTMT	>115'-0"
2VA15011C	Cable			CTMT	>115'-0"
Q2D21RE0027A-A	Radiation Detector	Victoreen	877-1	CTMT	>115'-0"
2VB15009E	Cable			CTMT	>115'-0"
2VB15009C	Cable			CTMT	>115'-0"
Q2D21RE0027B-B	Radiation Detector	Victoreen	877-1	CTMT	>115'-0"
Q2T52B009-A	CTMT Penet.	Westinghouse		CTMT	>115'-0"
Q2T52B011-B	CTMT Penet.	Westinghouse		CTMT	>115'-0"
Note 1 - Cables have been qualified along with detector.					

QPD-1374 Rev. 6/81

MASTER LIST

Joseph M. Farley Nuclear Plant Unit 2

△ New Sheet
Section 7
Sheet 11

0060673

(CLASS IE ELECTRICAL EQUIPMENT REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS)

ITEM: G-21 Liquid Waste Disposal (Narrow Range Containment Sump Level)(NUREG-0737 II.F.1.3

COMPONENT

PLANT ID NUMBER	GENERIC NAME	MANUFACTURER	MODEL	LOCATION BLDG.	LOCATION ELEV.
Q2021LT3282A-A	Level Sensor	Gems-Delaval	XM54824	CTMT	80'-0"
Q2021LT3282B-B	Level Sensor	Gems-Delaval	XM54824	CTMT	80'-0"
2VA15023A	Control Cable			CTMT	Various
2VB15023A	Control Cable			CTMT	Various
Q2T52B007-A	Control Penetration	General Electric	100 Series	CTMT	≥ 115'-0"
Q2T52B022-B	Control Penetration	General Electric	100 Series	CTMT	≥ 115'-0"

GPD-1374 Rev. 6/81

MASTER LIST

Joseph M. Farley Nuclear Plant Unit 2

(CLASS 1E ELECTRICAL EQUIPMENT REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS)

SYSTEM SAFEGUARD SYSTEMS, RHR/LHSI

E-11

00600674

COMPONENTS					
PLANT ID NUMBER	GENERIC NAME	MANUFACTURER	MODEL	LOCATION BLDG	LOCATION ELEV
Q2E11LT3594A	Level Transmitter	Gems	XM-36495	CTMT	116'-0"
Q2E11LT3594B	Level Transmitter	Gems	XM-36495	CTMT	116'-0"
Q2T52R006	Penetration	General Electric	100 Series	CTMT	143'-0"
Q2T52R020	Penetration	General Electric	100 Series	CTMT	143'-0"
2VA15009F	Control Cable			CTMT	116'-0" & above
2VB15009C	Control Cable			CTMT	116'-0" & above

MASTER LIST

Joseph M. Farley Nuclear Plant Unit 2

Section C.2.6
Sheet 13

(CLASS 1E ELECTRICAL EQUIPMENT REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS)

ITEM CONTAINMENT COOLING AND PURGE

R-12, R-14, R-13

0060675

COMPONENTS					
PLANT ID NUMBER	GENERIC NAME	MANUFACTURER	MODEL	LOCATION BLDG	LOCATION ELEV
Q2E16VD02 (MOV3660)	1" Motor Operated Globe Valve	Limitorque	SMB-000	CTMT	134'-6"
Q2E16VD04 (MOV3818)	1" Motor Operated Globe Valve	Limitorque	SMB-000	CTMT	116'-0"
DELETED -					
Q2P13ES3196 (HV3196)	Limit Switch	NAMCO	EA-180	CTMT	129'-0"
Q2P13EV2867B (HV2867)	Solenoid Valve	ASCO	NP8316S4V	CTMT	129'-0"
Q2P13ZS2867D (HV2867)	Limit Switch	NAMCO	EA-740	CTMT	129 -0"
DELETED -					
Q2P13ES3197 (HV3197)	Limit Switch	NAMCO	EA-180	CTMT	129'-0"
Q2P13EV2866B (HV2866)	Solenoid Valve	ASCO	NP8316S4V	CTMT	129'-0"
Q2P13ZS2866D (HV2866)	Limit Switch	NAMCO	EA-740	CTMT	129'-0"
Q2E12EV3999A (HV3999A)	Solenoid Valve	ASCO	NP8316A74E	CTMT	89'-4"
Q2E12ES3999A (HV3999A)	Limit Switch	NAMCO	EA-180	CTMT	89'-4"
Q2E12EV3999B (HV3999B)	Solenoid Valve	ASCO	NP8316A74E	CTMT	91'-4"
Q2E12ES3999B (HV3999B)	Limit Switch	NAMCO	EA-180	CTMT	91'-4"
Q2E12MD01A (MD01A)	CTMT Clr. Fan Motor	Joy Mfg. Co.	Type P	CTMT	155'-0"
Q2E12MD01B (MD01B)	CTMT Clr. Fan Motor	Joy Mfg. Co.	Type P	CTMT	155'-0"
Q2E12MD01C (MD01C)	CTMT Clr. Fan Motor	Joy Mfg. Co.	Type P	CTMT	155'-0"
Q2E12MD01D (MD01D)	CTMT Clr. Fan Motor	Joy Mfg. Co.	Type P	CTMT	155'-0"
Q2T523003	Penetration	General Electric	100 Series	CTMT	143'-0"
Q2T523007	Penetration	General Electric	100 Series	CTMT	143'-0"
Q2T523019	Penetration	General Electric	100 Series	CTMT	143'-0"
Q2T523002	Penetration	General Electric	100 Series	CTMT	143'-0"
Q2T523006	Penetration	General Electric	100 Series	CTMT	143'-0"
Q2T523041	Penetration	General Electric	100 Series	CTMT	143'-0"
Q2T523020	Penetration	General Electric	100 Series	CTMT	143'-0"

MASTER LIST

Joseph M. Farley Nuclear Plant Unit 2

Section C.2.6
Sheet 14

(CLASS 1E ELECTRICAL EQUIPMENT REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS)

SYSTEM: CONTAINMENT COOLING AND PURGE

E-12, E-14, F-13

00603-75

COMPONENTS					
PLANT ID NUMBER	GENERIC NAME	MANUFACTURER	MODEL	LOCATION BLDG	LOCATION ELEV
Q2P13SV3196-B/JB	Terminal Block	States Co.	Type ZWM	CTMT	129'-0"
Q2T52B022	Penetration	General Electric	100 Series	CTMT	143'-0"
Q2P13SV2867B-B/JB	Terminal Block	States Co.	Type ZWM	CTMT	129'-0"
Q2P13SV3197-B/JB	Terminal Block	States Co.	Type ZWM	CTMT	129'-0"
Q2P13SV2866B-B/JB	Terminal Block	States Co.	Type ZWM	CTMT	129'-0"
Q2E12SV3999A-A/JB	Terminal Block	States Co.	Type ZWM	CTMT	118'
Q2T52B025	Terminal Block	States Co.	Type ZWM	CTMT	118'
Q2E12SV3999B-B/JB	Terminal Block	States Co.	Type ZWM	CTMT	118'
Q2T52B001	Penetration	General Electric	100 Series	CTMT	143'-0"
Q2T52B023	Penetration	General Electric	100 Series	CTMT	143'
2VAFU-R5Q	Power Cable			CTMT	Varies
2VAFU-R5D	Control Cable			CTMT	Varies
2VAQ5048T	Control Cable			CTMT	Varies
2VXR5005H	Control Cable			CTMT	Varies
2VAFU-J4Q	Power Cable			CTMT	Varies
2VAFU-J4D	Control Cable			CTMT	Varies
2VAQ5009C	Control Cable			CTMT	Varies
2VYR5066B	Instrument Cable			CTMT	Varies
2VRL5008C,D,K,L	Control Cables			CTMT	Varies
2VRC5010J	Control Cable			CTMT	Varies
2VYR5033D	Control Cable			CTMT	Varies
2VRL5008X, N	Control Cables			CTMT	Varies
2VRC5012F	Control Cable			CTMT	Varies
2VYR5033F	Control Cable			CTMT	Varies
2VAL5122C	Control Cable			CTMT	Varies

GPD-1234 1/80

MASTER LIST

Joseph M. Farley Nuclear Plant Unit 2

Section C.2.6
Sheet 15 of

(CLASS 1E ELECTRICAL EQUIPMENT REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS)

SYSTEM: CONTAINMENT COOLING AND PURGE — E-12, E-14, F-13

0060677

COMPONENTS					
PLANT ID NUMBER	GENERIC NAME	MANUFACTURER	MODEL	LOCATION BLDG	LOCATION ELEV
2VAQ5029E	Control Cable			CTMT	Varies
2VBL5094C	Control Cable			CTMT	Varies
2VBQ5029E	Control Cable			CTMT	Varies
2VAED15Q	Power Cable			CTMT	Varies
2VAED16Q	Power Cable			CTMT	Varies
2VBEE08Q	Power Cable			CTMT	Varies
2VBEE16Q	Power Cable			CTMT	Varies

GFD: 1314 1/80

02993 795

MASTER LIST

Joseph M. Farley Nuclear Plant Unit 2

Section 6.2.7
Sheet 16

(C CLASS IS ELECTRICAL EQUIPMENT REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS)

SYSTEM: HYDROGEN RECOMBINER SYSTEM E-17

COMPONENTS					
PLANT ID NUMBER	GENERIC NAME	MANUFACTURER	MODEL	LOCATION	
				BLDG	ELEV
Q2E17G001A (K001A)	H_2 Recombiner Heater	Westinghouse	Type A	CTMT	155'-0"
Q2E17G001B (K001B)	H_2 Recombiner Heater	Westinghouse	Type A	CTMT	155'-0"
Q2T52B001	Penetration	General Electric	100 Series	CTMT	143'-0"
Q2T52B023	Penetration	General Electric	100 Series	CTMT	143'-0"
Q2T52B024	Penetration	General Electric	100 Series	CTMT	143'-0"
Q2T52B042	Penetration	General Electric	100 Series	CTMT	143'-0"
2VAFALL3T	Power Cable			CTMT	143'-0" & above
2VBFBRH6T	Power Cable			CTMT	143'-0" & above
2VXQ50098, D, F	Instrument Cables			CTMT	143'-0" & above
2VYQ50178, D, F	Instrument Cables			CTMT	143'-0" & above

Joseph M. Farley Nuclear Plant Unit 2

MASTER LIST

Section C.2.8
Sheet 17 of

(CLASS IE ELECTRICAL EQUIPMENT REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS)

SYSTEM: CONTAINMENT POST LOCA AIR MIXING SYSTEM E-19

COMPONENTS					
PLANT ID NUMBER	GENERIC NAME	MANUFACTURER	MODEL	LOCATION BLDG	LOCATION ELEV
2E19M001A (C001A)	Mixing Fan Motor	Joy Mfg. Co.	Type P	CTMT	155'-0"
2E19M001B (C001B)	Mixing Fan Motor	Joy Mfg. Co.	Type P	CTMT	155'-0"
2E19M001C (C001C)	Mixing Fan Motor	Joy Mfg. Co.	Type P	CTMT	155'-0"
2E19M001D (C001D)	Mixing Fan Motor	Joy Mfg. Co.	Type P	CTMT	155'-0"
2T52B002	Penetration	General Electric	100 Series	CTMT	143'-0"
2T52B014	Penetration	General Electric	100 Series	CTMT	143'-0"
2T52B015	Penetration	General Electric	100 Series	CTMT	143'-0"
2T52B017	Penetration	General Electric	100 Series	CTMT	143'-0"
2VAPA-J5Q	Power Cable			CTMT	143'-0" & above
2VAPA-I5Q	Power Cable			CTMT	143'-0" & above
2VAPA-I4Q	Power Cable			CTMT	143'-0" & above
2VAPA-I3Q	Power Cable			CTMT	143'-0" & above

GPD-1374 1/80

0060279

Joseph M. Farley Nuclear Plant Unit 2

MASTER LIST

Section C.2.9
Sheet 18

(CLASS 1E ELECTRICAL EQUIPMENT REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS)

ITEM: CHEMICAL AND VOLUME CONTROL/SAFETY INJECTION E-21

COMPONENTS					
PLANT ID NUMBER	GENERIC NAME	MANUFACTURER	MODEL	LOCATION	
				BLDG	ELEV
Q2E21V038A (MOV8058A)	12" Motor Operated Gate Valve	Limitorque	SMB-4	CTMT	111'-6"
Q2E21V038B (MOV8058B)	12" Motor Operated Gate Valve	Limitorque	SMB-4	CTMT	112'-6"
Q2E21V038C (MOV8058C)	12" Motor Operated Gate Valve	Limitorque	SMB-4	CTMT	113'-6"
Q2E21SV8871 (MV8871)	Solenoid Valve	ASCO	WP8316S4V	CTMT	123'-0"
Q2E21ZS8871 (MV8871)	Limit Switch	NAMCO	EA-180	CTMT	123'-0"
Q2E21V249A (MOV8112)	3" Motor Operated Gate Valve	Limitorque	SMB-00	CTMT	122'
N2E21ZS8149A (HV8149A)	Limit Switch	NAMCO	EA-180	CTMT	111'-0"
Q2E21SV8149AB (HV8149A)	Solenoid Valve	ASCO	WP8316S4V	CTMT	111'-0"
N2E21ZS8149B (HV8149B)	Limit Switch	NAMCO	EA-180	CTMT	111'-0"
Q2E21SV8149BB (HV8149B)	Solenoid Valve	ASCO	WP8316S4V	CTMT	111'-0"
N2E21ZS8149C (HV8149C)	Limit Switch	NAMCO	EA-180	CTMT	111'-0"
Q2E21SV8149CB (HV8149C)	Solenoid Valve	ASCO	WP8316S4V	CTMT	111'-0"
Q2T52B002	Penetration	General Electric	100 Series	CTMT	143'-0"
Q2T52B016	Penetration	General Electric	100 Series	CTMT	143'-0"
Q2T52B006	Penetration	General Electric	100 Series	CTMT	143'-0"
Q2T52B038	Penetration	General Electric	100 Series	CTMT	143'-0"
Q2T52B019	Penetration	General Electric	100 Series	CTMT	143'-0"
N2E21SV8871-A/JB	Junction Box	States Co	Type ZWM	CTMT	143'-0"
Q2E21ZS8808AB	Limit Switch	NAMCO	EA-180	CTMT	111'-6"
Q2E21ZS8808BB	Limit Switch	NAMCO	EA-180	CTMT	112'-6"
Q2E21ZS8808CB	Limit Switch	NAMCO	EA-180	CTMT	113'-6"
Q2T52B014	Penetration	General Electric	100 Series	CTMT	143'-0"
N2E21SV8149AA-A/JB	Terminal Block	States Co.	Type ZWM	CTMT	116'-0"
N2E21SV8149BA-A/JB	Terminal Box	States Co.	Type ZWM	CTMT	116'-0"

GFD-1314 1-80

MASTER LIST

Joseph M. Farley Nuclear Plant Unit 2

Section C 2.9
Sheet 19 of

(CLASS IE ELECTRICAL EQUIPMENT REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS)

SYSTEM: CHEMICAL AND VOLUME CONTROL/SAFETY INJECTION E-21

8909001

PLANT ID NUMBER	COMPONENTS GENERIC NAME	MANUFACTURER	MODEL	LOCATION BLDG	ELEV.
N2E21SV8149CA-A/JB	Terminal Block	States Co.	Type ZWM	CTMT	116'-0" & above
2VAFU-Z2Q	Power Cable			CTMT	Varies
2VAFU-Z2D, G	Control Cables			CTMT	Varies
2VAQ5023E	Control Cable			CTMT	Varies
2VXKA163B	Control Cable			CTMT	Varies
2VBFV-S2Q	Power Cable			CTMT	Varies
2VBFV-S2D, G	Control Cables			CTMT	Varies
2VBQ5024C	Control Cable			CTMT	Varies
2VYKA163B	Control Cable			CTMT	Varies
2VAFU-Z3Q	Power Cable			CTMT	Varies
2VAFU-Z3D, G	Control Cables			CTMT	Varies
2VAQ5024E	Control Cable			CTMT	Varies
2VXA163D	Control Cable			CTMT	Varies
2VAL5049C	Control Cable			CTMT	Varies
2VAQ5022H	Control Cable			CTMT	Varies
2VAFU-T4Q	Power Cable			CTMT	Varies
2VAFU-T4D	Control Cable			CTMT	Varies
2VAQ5018E	Control Cable			CTMT	Varies
2VAL5042F	Control Cable			CTMT	Varies
2VAL5042G	Control Cable			CTMT	Varies
2VAQ5022F	Control Cable			CTMT	Varies
2VAL5043F	Control Cable			CTMT	Varies
2VAL5043G	Control Cable			CTMT	Varies
2VAQ5023C	Control Cable			CTMT	Varies
2VAL5044F	Control Cable			CTMT	Varies

GPO-1314 1/80

MASTER LIST

Joseph M. Farley Nuclear Plant Unit 2

(CLASS IE ELECTRICAL EQUIPMENT REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS)

SYSTEM: CHEMICAL AND VOLUME CONTROL/SAFETY INJECTION E-21

COMPONENTS					
PLANT ID NUMBER	GENERIC NAME	MANUFACTURER	MODEL	LOCATION	
				BLDG	ELEV
2VAL5044C	Control Cable			CTMT	Varies
2VAQ5024C	Control Cable			CTMT	Varies

MASTER LIST

Joseph M. Farley Nuclear Plant Unit 2

(CLASS 1E ELECTRICAL EQUIPMENT REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS)

SYSTEM: REACTOR CAVITY POST LOCA DILUTION SYSTEM E-22

COMPONENTS

PLANT ID NUMBER	GENERIC NAME	MANUFACTURER	MODEL	LOCATION BLDG	LOCATION ELEV
Q2E22M001A (C001A)	Dilution Fan Motor	Joy Mfg. Co.	Type P	CTMT	129'-0"
Q2E22M001B (C001B)	Dilution Fan Motor	Joy Mfg. Co.	Type P	CTMT	129'-0"
Q2E22V001A (MOV3872A)	2½" Motor Operated Gate Valve	Limitorque	SMB-00	CTMT	130'-0"
Q2E22V001B (MOV3872B)	2½" Motor Operated Gate Valve	Limitorque	SMB-00	CTMT	130'-0"
Q2T52B001	Penetration	General Electric	100 Series	CTMT	142'-0"
Q2T52B019	Penetration	General Electric	100 Series	CTMT	142'-0"
Q2T52B023	Penetration	General Electric	100 Series	CTMT	142'-0"
Q2T52B020	Penetration	General Electric	100 Series	CTMT	142'-0"
2VAED06Q	Power Cable			CTMT	129'-0"
2VAED06E	Control Cable			CTMT	129'-0"
2VBEE09Q	Power Cable			CTMT	129'-0"
2VBEE09E	Control Cable			CTMT	129'-0"

Joseph M. Farley Nuclear Plant Unit 2 MASTER LIST 0060684 Section C.2.
Sheet 22

1CLASS 1E ELECTRICAL EQUIPMENT REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITION

SYSTEM: POST ACCIDENT CONTAINMENT COMBUSTIBLE GAS CONTROL E-23

PLANT ID NUMBER	GENERIC NAME	COMPONENTS MANUFACTURER	MODEL	LOCATION BLDG	EL
Q2E23V021 (MOV3526)	2" Motor Operated Gate Valve	Limitorque	SMB-00	CTMT	116'-0"
Q2E23V003 (MOV3520)	6" Motor Operated Gate Valve	Limitorque	SMB-00	CTMT	120'-0"
Q2E23V022A (MOV3528A)	3/4" Motor Operated Globe Valve	Limitorque	SMB-000	CTMT	126'-6"
Q2E23V002B (MOV3528B)	3/4" Motor Operated Globe Valve	Limitorque	SMB-000	CTMT	126'-6"
Q2E23V022C (MOV3528C)	3/4" Motor Operated Globe Valve	Limitorque	SMB-000	CTMT	126'-6"
Q2E23V022D (MOV3528D)	3/4" Motor Operated Globe Valve	Limitorque	SMB-000	CTMT	126'-6"
Q2E23V025A (MOV3535A)	3/4" Motor Operated Globe Valve	Limitorque	SMB-000	CTMT	126'-6"
Q2E23V025B (MOV3535B)	3/4" Motor Operated Globe Valve	Limitorque	SMB-000	CTMT	126'-6"
Q2T52B005	Penetration	General Electric	100 Series	CTMT	143'-0"
Q2T52B017	Penetration	General Electric	100 Series	CTMT	143'-0"
Q2T52B007	Penetration	General Electric	100 Series	CTMT	143'-0"
Q2T52B019	Penetration	General Electric	100 Series	CTMT	143'-0"
Q2T52B020	Penetration	General Electric	100 Series	CTMT	143'-0"
Q2T52B038	Penetration	General Electric	100 Series	CTMT	143'-0"
Q2T52B016	Penetration	General Electric	100 Series	CTMT	143'-0"
Q2T52B015	Penetration	General Electric	100 Series	CTMT	143'-0"
2VAFV-W4Q	Power Cable			CTMT	116'-0" & above
2VBFV-N2Q	Power Cable			CTMT	116'-0" & above
2VAFV-W4C	Control Cable			CTMT	116'-0" & above
2VAEC06E	Control Cable			CTMT	116'-0" & above
2VBFV-N2C	Control Cable			CTMT	116'-0" & above
2VBEE09E	Control Cable			CTMT	116'-0" & above
2VBFV-Y5Q	Power Cable			CTMT	116'-0" & above
2VBFV-Y5C	Control Cable			CTMT	116'-0" & above
2VBFV-Y4Q	Power Cable			CTMT	116'-0" & above

JPD-1374 1/80

0 2 9 9 3 1 8 0

(CLASS 1E ELECTRICAL EQUIPMENT REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS)

SYSTEM: POST ACCIDENT CONTAINMENT COMBUSTIBLE GAS CONTROL K-23

COMPONENTS					
PLANT I.D. NUMBER	GENERIC NAME	MANUFACTURER	MODEL	LOCATION	
				BLDG	ELEV
Q2E23V021 (MOV3536)	2" Motor Operated Gate Valve	Limitorque	SMB-00	CTMT	116'-6"
Q2E23V003 (MOV3539)	6" Motor Operated Gate Valve	Limitorque	SMB-00	CTMT	130'-6"
Q2E23V022A (MOV3528A)	3/4" Motor Operated Globe Valve	Limitorque	SMB-000	CTMT	126'-6"
Q2E23V002B (MOV3523B)	3/4" Motor Operated Globe Valve	Limitorque	SMB-000	CTMT	126'-6"
Q2E23V022C (MOV3528C)	3/4" Motor Operated Globe Valve	Limitorque	SMB-000	CTMT	126'-6"
Q2E23V022D (MOV3528D)	3/4" Motor Operated Globe Valve	Limitorque	SMB-000	CTMT	126'-6"
Q2E23V025A (MOV3835A)	3/4" Motor Operated Globe Valve	Limitorque	SMB-000	CTMT	126'-6"
Q2E23V025B (MOV3835B)	3/4" Motor Operated Globe Valve	Limitorque	SMB-000	CTMT	126'-6"
Q2T52B005	Penetration	General Electric	100 Series	CTMT	143'-0"
Q2T52B017	Penetration	General Electric	100 Series	CTMT	143'-0"
Q2T52B007	Penetration	General Electric	100 Series	CTMT	143'-0"
Q2T52B019	Penetration	General Electric	100 Series	CTMT	143'-0"
Q2T52B020	Penetration	General Electric	100 Series	CTMT	143'-0"
Q2T52B038	Penetration	General Electric	100 Series	CTMT	143'-0"
Q2T52B016	Penetration	General Electric	100 Series	CTMT	143'-0"
Q2T52B015	Penetration	General Electric	100 Series	CTMT	143'-0"
2VAFV-W4Q	Power Cable			CTMT	116'-0" & above
2VBFV-N2Q	Power Cable			CTMT	116'-0" & above
2VAFV-W4C	Control Cable			CTMT	116'-0" & above
2VAED06E	Control Cable			CTMT	116'-0" & above
2VBFV-N2C	Control Cable			CTMT	116'-0" & above
2VBED09E	Control Cable			CTMT	116'-0" & above
2VBFV-Y5Q	Power Cable			CTMT	116'-0" & above
2VBFV-Y5C	Control Cable			CTMT	116'-0" & above
2VBFV-Y4Q	Power Cable			CTMT	116'-0" & above

(CLASS 1E ELECTRICAL EQUIPMENT REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS)

SYSTEM: POST ACCIDENT CONTAINMENT COMBUSTIBLE GAS CONTROL E-22

COMPONENTS					
PLANT ID NUMBER	GENERIC NAME	MANUFACTURER	MODEL	LOCATION BLDG	LOCATION ELEV
2VBFV-Y5C	Control Cable			CTMT	116'-0" & above
2VAFU-L4Q	Power Cable			CTMT	116'-0" & above
2VAFU-L5Q	Power Cable			CTMT	116'-0" & above
2VBFV-H4Q	Power Cable			CTMT	116'-0" & above
2VBFV-H5Q	Power Cable			CTMT	116'-0" & above
2VAFU-L4C	Control Cable			CTMT	116'-0" & above
2VAFU-L5C	Control Cable			CTMT	116'-0" & above
2VBFV-H4C	Control Cable			CTMT	116'-0" & above
2VBFV-H5C	Control Cable			CTMT	116'-0" & above
2VAFU-M4Q	Power Cable			CTMT	116'-0" & above
2VBFV-M3Q	Power Cable			CTMT	116'-0" & above
2VAFU-M4C	Control Cable			CTMT	116'-0" & above
2VBFV-M3C	Control Cable			CTMT	116'-0" & above

GPD-1374 1/80

02993 1805

MASTER LIST

Joseph M. Farley Nuclear Plant Unit 2 — 0060687 — Section C.2.12 Sheet 24 of

(CLASS 1E ELECTRICAL EQUIPMENT REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS)

SYSTEM: LIQUID WASTE DISPOSAL SYSTEM — G-21

COMPONENTS					
PLANT ID NUMBER	GENERIC NAME	MANUFACTURER	MODEL	LOCATION BLDG	LOCATION ELEV
Q2G21SV3376 (MV3376)	Solenoid Valve	ASCO	NP8316A74E	CTMT	109'-0"
Q2G21S3376 (MV3376)	Limit Switch	NAMCO	EA-180	CTMT	109'-0"
N2G21S1003 (LCV1003)	Limit Switch	NAMCO	EA-180	CTMT	110'-0"
N2G21SV1003B (LCV1003)	Solenoid Valve	ASCO	206-381-62F	CTMT	110'-0"
Q2G21SV7126 (MV7126)	Solenoid Valve	ASCO	NP8316A54E	CTMT	117'-0"
Q2G21S7126 (MV7126)	Limit Switch	NAMCO	EA-180	CTMT	117'-0"
Q2T528038	Penetration	General Electric	100 Series	CTMT	143'-0"
Q2T528041	Penetration	General Electric	100 Series	CTMT	143'-0"
Q2G21SV3376-B/JB	Terminal Block	States Co.	Type ZWM	CTMT	116'-0"
Q2T528019	Penetration	General Electric	100 Series	CTMT	143'-0"
N2G21SV1003A-A/JB	Terminal Block	States Co.	Type ZWM	CTMT	116'-0"
N2G21SV7126-A/JB	Terminal Block	States Co.	Type ZWM	CTMT	116'-0"
2VEL5045C	Control Cable			CTMT	116'-0" & above
2VE05020J	Control Cable			CTMT	116'-0" & above
2VXE5066C	Instrument Cable			CTMT	116'-0" & above
2VAL5023D	Control Cable			CTMT	116'-0" & above
2VA05021J	Control Cable			CTMT	116'-0" & above
2VAL5036C	Control Cable			CTMT	116'-0" & above
2VA05020J	Control Cable			CTMT	>115'

GPD-1374 1/80

02993 18006

Joseph M. Farley Nuclear Plant Unit 2 — **MASTER LIST** — Section C.2. 13 Sheet 25

CLASS 1E ELECTRICAL EQUIPMENT REQUIRED TO FUNCTION UNDER POST-LATER ACCIDENT CONDITIONS)

SYSTEM: MAIN STEAM — M-11

COMPONENTS					
PLANT ID NUMBER	GENERIC NAME	MANUFACTURER	MODEL	LOCATION BLDG	LOCATION ELEV
Q2N11ZS3369A (HV3369A)	Limit Switch	NAMCO	EA-180	Mn. Stm Room	127'-5"
DELETED					
Q2N11SV3369AC (HV3369A)	Solenoid Valve	ASCO	NP8316E36V	Mn. Stm Room	135'-0"
Q2N11ZS3369B (HV3369B)	Limit Switch	NAMCO	EA-180	Mn. Stm Room	127'-5"
DELETED					
Q2N11SV3369BC (HV3369B)	Solenoid Valve	ASCO	NP8316E36V	Mn. Stm Room	135'-0"
Q2N11ZS3369C (HV3369C)	Limit Switch	NAMCO	EA-180	Mn. Stm Room	127'-5"
DELETED					
Q2N11SV3369CC (HV3369C)	Solenoid Valve	ASCO	NP8316E36V	Mn. Stm Room	135'-0"
Q2N11ZS3370A (HV3370A)	Limit Switch	NAMCO	EA-180	Mn. Stm Room	127'-5"
DELETED					
Q2N11SV3370AC (HV3370A)	Solenoid Valve	ASCO	NP8316E36V	Mn. Stm Room	135'-0"
Q2N11ZS3370B (HV3370B)	Limit Switch	NAMCO	EA-180	Mn. Stm Room	127'-5"
DELETED					
Q2N11SV3370BC (HV3370B)	Solenoid Valve	ASCO	NP8316E36V	Mn. Stm Room	135'-0"
Q2N11ZS3370C (HV3370C)	Limit Switch	NAMCO	EA-180	Mn. Stm Room	127'-5"
DELETED					
Q2N11SV3370CC (HV3370C)	Solenoid Valve	ASCO	NP8316E36V	Mn. Stm Room	135'-0"
Q2N11ZS3368A (HV3368A)	Limit Switch	NAMCO	EA-180	Mn. Stm Room	131'-7"
Q2N11SV3368AA (HV3368A)	Solenoid Valve	ASCO	NP8321A2V	Mn. Stm Room	131'-7"
Q2N11ZS3368B (HV3368B)	Limit Switch	NAMCO	EA-180	Mn. Stm Room	131'-7"
Q2N11SV3368BA (HV3368B)	Solenoid Valve	ASCO	NP8321A2V	Mn. Stm Room	131'-7"
Q2N11ZS3368C (HV3368C)	Limit Switch	NAMCO	EA-180	Mn. Stm Room	131'-7"
Q2N11SV3368CA (HV3368C)	Solenoid Valve	ASCO	NP8321A2V	Mn. Stm Room	131'-7"
Q2N11SV3376A (HV3376A)	Solenoid Valve	ASCO	NP8321A2V	Mn. Stm Room	131'-7"

Joseph M. Farley Nuclear Plant Unit 2 — MASTER LIST — 0060689 — Section C.2.13 Sheet 26

*CLASS 1E ELECTRICAL EQUIPMENT REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS)

ITEM: MAIN STEAM — M-11

COMPONENTS					
PLANT ID NUMBER	GENERIC NAME	MANUFACTURER	MODEL	LOCATION	
				BLDG	ELEV
Q2N11ZS3976A (HV3976A)	Limit Switch	NAMCO	EA-180	Mn. Stm Room	131'-7"
Q2N11SV3976B (HV3976B)	Solenoid Valve	ASCO	NP8321A2V	Mn. Stm Room	131'-7"
Q2N11ZS3976B (HV3976B)	Limit Switch	NAMCO	EA-180	Mn. Stm Room	131'-7"
Q2N11SV3976C (HV3976C)	Solenoid Valve	ASCO	NP8321A2V	Mn. Stm Room	131'-7"
Q2N11ZS3976C (HV3976C)	Limit Switch	NAMCO	EA-180	Mn. Stm Room	131'-7"
Q2N11SV3369AA-A/JB	Terminal Block	States Co.	Type EWM	Mn. Stm Room	131'-0"
Q2N11SV3369BA-A/JB	Terminal Block	States Co.	Type EWM	Mn. Stm Room	131'-0"
Q2N11SV3369CA-A/JB	Terminal Block	States Co.	Type EWM	Mn. Stm Room	131'-0"
Q2N11SV3370AA-B/JB	Terminal Block	States Co.	Type EWM	Mn. Stm Room	137'-0"
Q2N11SV3370BA-B/JB	Terminal Block	States Co.	Type EWM	Mn. Stm Room	137'-0"
Q2N11SV3370CA-B/JB	Terminal Block	States Co.	Type EWM	Mn. Stm Room	137'-0"
Q2N11SV3368AA-A/JB	Terminal Block	States Co.	Type EWM	Mn. Stm Room	137'-0"
Q2N11SV3368BA-A/JB	Terminal Block	States Co.	Type EWM	Mn. Stm Room	137'-0"
Q2N11SV3368CA-A/JB	Terminal Block	States Co.	Type EWM	Mn. Stm Room	137'-0"
Q2N11SV3976B-B/JB	Terminal Block	States Co.	Type EWM	Mn. Stm Room	137'-0"
Q2N11SV3976C-B/JB	Terminal Block	States Co.	Type EWM	Mn. Stm Room	137'-0"
2VAL5019E, F	Control Cables			Mn. Stm Room	135' & above
2VAL5045C	Control Cable			Mn. Stm Room	135' & above
2VAQ5013A	Control Cable			Mn. Stm Room	135' & above

GE-1314 1/80

Joseph M. Farley Nuclear Plant Unit 2

MASTER LIST

Section C.2.13
Sheet 27 of

(CLASS 1E ELECTRICAL EQUIPMENT REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS)

0000690

SYSTEM: MAIN STEAM

N-11

COMPONENTS					
PLANT ID NUMBER	GENERIC NAME	MANUFACTURER	MODEL	LOCATION BLDG	LOCATION ELEV
2VAT0001C, D, E	Control Cable			Mn. Stm Room	127'-5" & above
2VAL5020E, F	Control Cable			Mn. Stm Room	127'-5" & above
2VAL5046C	Control Cable			Mn. Stm Room	127'-5" & above
2VAQ5015A	Control Cable			Mn. Stm Room	127'-5" & above
2VAL5021E, F	Control Cable			Mn. Stm Room	127'-5" & above
2VAL5047C	Control Cable			Mn. Stm Room	127'-5" & above
[illegible]	Control Cable			Mn. Stm Room	127'-5" & above
VBL5[illegible]	Control Cable			Mn. Stm Room	127'-5" & above
[illegible]	Control Cable			Mn. Stm Room	127'-5" & above
[illegible]	Control Cable			Mn. Stm Room	127'-5" & above
2VB[illegible], G, H	Control Cable			Mn. Stm Room	127'-5" & above
2VBL5011E, D	Control Cable			Mn. Stm Room	127'-5" & above
2VBL5022C	Control Cable			Mn. Stm Room	127'-5" & above
2VBQ5015D	Control Cable			Mn. Stm Room	127'-5" & above
2VBL5012E, D	Control Cable			Mn. Stm Room	127'-5" & above
2VBL5023C	Control Cable			Mn. Stm Room	127'-5" & above
2VBQ5017E	Control Cable			Mn. Stm Room	127'-5" & above
2VAL5045B	Control Cable			Mn. Stm Room	127'-5" & above
2VAQ5012B	Control Cable			Mn. Stm Room	127'-5" & above
2VXR5008A	Control Cable			Mn. Stm Room	127'-5" & above
2VAL5046B	Control Cable			Mn. Stm Room	127'-5" & above
2VAQ5015B	Control Cable			Mn. Stm Room	127'-5" & above
2VXR5008B	Control Cable			Mn. Stm Room	127'-5" & above
2VAL5047B	Control Cable			Mn. Stm Room	127'-5" & above
2VAQ5017B	Control Cable			Mn. Stm Room	127'-5" & above

MASTER LIST

Joseph M. Farley Nuclear Plant Unit 2

0060691

Section C.2.13
Sheet 25 of

(CLASS 1E ELECTRICAL EQUIPMENT REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS)

SYSTEM: MAIN STEAM

M-11

COMPONENTS					
PLANT ID NUMBER	GENERIC NAME	MANUFACTURER	MODEL	LOCATION	
				BLDG	ELEV
2VXR5008C	Control Cable			Ma. Stm Room	127'-0" & above
2VBL5021B	Control Cable			Ma. Stm Room	127'-0" & above
2VBQ5013F	Control Cable			Ma. Stm Room	127'-0" & above
2VBL5022B	Control Cable			Ma. Stm Room	127'-0" & above
2VBQ5015F	Control Cable			Ma. Stm Room	127'-0" & above
2VBL5023B	Control Cable			Ma. Stm Room	127'-0" & above
2VBQ5017F	Control Cable			Ma. Stm Room	127'-0" & above
Q2N11LT477	Level Transmitter	Barton	764	CTMT	116'-0"
Q2N11LT487	Level Transmitter	Barton	764	CTMT	116'-0"
Q2N11LT497	Level Transmitter	Barton	764	CTMT	116'-0"
Q2T52B040	Penetration	General Electric	100 Series	CTMT	143'-0"
Q2T52B041	Penetration	General Electric	100 Series	CTMT	143'-0"
2VXV5013L	Instrument Cable			CTMT	116'-0"
2VXV5014H, J	Instrument Cable			CTMT	116'-0"
Q2N11SV3076A-B/JB	Terminal Block	States Co.	Type ZWH	Ma. Stm Room	137'-0"

GPD:1374 1/80

U2993010U

MASTER LIST

Joseph M. Farley Nuclear Plant Unit 2 — 0060692 — Section C.2.14 Sheet 29

(CLASS IE ELECTRICAL EQUIPMENT REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS)

SYSTEM: AUXILIARY STEAM — W-12

COMPONENTS					
PLANT ID NUMBER	GENERIC NAME	MANUFACTURER	MODEL	LOCATION BLDG	LOCATION ELEV
Q2N12SV3234A (HV3234A)	Solenoid Valve	ASCO	NP8320A186V	Mn. Stm Room	135'-0"
Q2N12ZS3234A (HV3434A)	Limit Switch	NAMCO	EA-180	Mn. Stm Room	134'-0"
Q2N12SV3234B (HV3234B)	Solenoid Valve	ASCO	NP8320A186V	Mn. Stm Room	135'-0"
Q2N12ZS3234B (HV3234B)	Limit Switch	NAMCO	EA-180	Mn. Stm Room	134'-0"
Q2N12SV3235A (HV3235A)	Solenoid Valve	ASCO	NP8321A2V	Mn. Stm Room	135'-0"
Q2N12ZS3235A (HV3235A)	Limit Switch	NAMCO	EA-180	Mn. Stm Room	140'-0"
Q2N12SV3235B (HV3235B)	Solenoid Valve	ASCO	NP8321A2V	Mn. Stm Room	135'-0"
Q2N12ZS3235B (HV3235B)	Limit Switch	NAMCO	EA-180	Mn. Stm Room	140'-0"
Q2N12SV3234A-A/JB	Terminal Block	States Co.	Type EVM	Mn. Stm Room	135'-0" & above
Q2N12SV3234B-B/JB	Terminal Block	States Co.	Type EVM	Mn. Stm Room	135'-0" & above
Q2N12SV3235A-A/JB	Terminal Block	States Co.	Type EVM	Mn. Stm Room	135'-0" & above
Q2N12SV3235B-B/JB	Terminal Block	States Co.	Type EVM	Mn. Stm Room	135'-0" & above
2VA[illegible]003B	Control Cable			Mn. Stm Room	135'-0" & above
2VAC5011A	Control Cable			Mn. Stm Room	135'-0" & above
2VXR5007Y	Control Cable			Mn. Stm Room	135'-0" & above
2VBL5007B	Control Cable			Mn. Stm Room	135'-0" & above
2VB05013B	Control Cable			Mn. Stm Room	135'-0" & above
2VXR5033B	Control Cable			Mn. Stm Room	135'-0" & above
2VAL5004C	Control Cable			Mn. Stm Room	135'-0" & above
2VAC5010D	Control Cable			Mn. Stm Room	135'-0" & above
2VNR5003A,B	Instrument Cables			Mn. Stm Room	135'-0" & above
2VBL5003C	Control Cable			Mn. Stm Room	135'-0" & above
2VB05011B	Control Cable			Mn. Stm Room	135'-0" & above
2VXRJ183C, D, G, H	Control Cables			Mn. Stm Room	135'-0" & above

GPC-1314 1/80

MASTER LIST

Joseph M. Farley Nuclear Plant Unit 2 006069 Section F.2.15 Sheet 30 of

(CLASS 1E ELECTRICAL EQUIPMENT REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS)

YSTEM: MAIN FEEDWATER AND CONDENSATE N-21

COMPONENTS					
PLANT ID NUMBER	GENERIC NAME	MANUFACTURER	MODEL	LOCATION	
				BLDG	ELEV
Q2N21V001A-B (MOV3232A)	14" Motor Operated Stop-Check Globe Vl	Limitorque	SMB-4T	Mn. Stm Room	140'-0"
Q2N21V001B-B (MOV3232B)	14" Motor Operated Stop-Check Globe Vl	Limitorque	SMB-4T	Mn. Stm Room	140'-0"
Q2N21V001C-B (MOV3232C)	14" Motor Operated Stop-Check Globe Vl	Limitorque	SMB-4T	Mn. Stm Room	140'-0"
Q2N21LSH2828A	Level Switch	Gems	LS-36497	Mn. Stm Room	133'-5"
Q2N21LSH2828B	Level Switch	Gems	LS-36497	Mn. Stm Room	133'-5"
Q2N21LSH2828C	Level Switch	Gems	LS-36497	Mn. Stm Room	133'-5"
Q2N21LSH2829A	Level Switch	Gems	LS-36497	Mn. Stm Room	133'-5"
Q2N21LSH2829B	Level Switch	Gems	LS-36497	Mn. Stm Room	133'-5"
Q2N21LSH2829C	Level Switch	Gems	LS-36497	Mn. Stm Room	133'-5"
A2TB034	Terminal Block	States Co.	Type ZHM	Mn. Stm Room	135'-0"
2VAL5120A,B,C,D	Control Cable			Mn. Stm Room	133'-0" & above
2VBL5092A, B, C	Control Cable			Mn. Stm Room	133'-0" & above
2VBFV-K2Q	Power Cable			Mn. Stm Room	133'-0" & above
2VBFV-K3Q	Power Cable			Mn. Stm Room	133'-0" & above
2VBFV-L2Q	Power Cable			Mn. Stm Room	133'-0" & above
2VBFV-K2A	Control Cable			Mn. St. Room	133'-0" & above
2VBFV-K3A	Control Cable			Mn. Stm Room	133'-0" & above
2VBFV-L2A	Control Cable			Mn. Stm Room	133'-0" & above

GPD-1376 1/80

MASTER LIST

Joseph M. Farley Nuclear Plant Unit 2

Section C.2.16
Sheet 21

(CLASS 1E ELECTRICAL EQUIPMENT REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS)

ITEM AUXILIARY FEEDWATER

1-23

COMPONENTS					
PLANT ID NUMBER	GENERIC NAME	MANUFACTURER	MODEL	LOCATION BLDG	LOCATION ELEV
Q2N23VD01A (MOV3350A)	4" Motor Operated Stop-Check Globe Vl	Limitorque	SMB-1	Aux. Stm Room	137'-5"
Q2N23VD01B (MOV3350B)	4" Motor Operated Stop-Check Globe Vl	Limitorque	SMB-1	Aux. Stm Room	137'-5"
Q2N23VD01C (MOV3350C)	4" Motor Operated Stop-Check Globe Vl	Limitorque	SMB-1	Aux. Stm Room	137'-5"
Q2N23S3228A (HV3228A)	Limit Switch	NAMCO	EA-180	Aux. Stm Room	135'-0"
Q2N23SV3228AA (HV3228A)	Solenoid Valve	ASCO	NP8320A186V	Aux. Stm Room	135'-0"
Q2N23S3228B (HV3228B)	Limit Switch	NAMCO	EA-180	Aux. Stm Room	135'-0"
Q2N23SV3228BA (HV3228B)	Solenoid Valve	ASCO	NP8320A186V	Aux. Stm Room	135'-0"
Q2N23S3228C (HV3228C)	Limit Switch	NAMCO	EA-180	Aux. Stm Room	135'-0"
Q2N23SV3228CA (HV3228C)	Solenoid Valve	ASCO	NP8320A186V	Aux. Stm Room	135'-0"
Q2N23S3227A (HV3227A)	Limit Switch	NAMCO	EA-180	Aux. Stm Room	135'-0"
Q2N23SV3227AA (HV3227A)	Solenoid Valve	ASCO	NP8320A168V	Aux. Stm Room	135'-0"
Q2N23S3227B (HV3227B)	Limit Switch	NAMCO	EA-180	Aux. Stm Room	135'-0"
Q2N23SV3227BA (HV3227B)	Solenoid Valve	ASCO	NP8320A168V	Aux. Stm Room	135'-0"
Q2N23S3227C (HV3227C)	Limit Switch	NAMCO	EA-180	Aux. Stm Room	135'-0"
Q2N23SV3227CA (HV3227C)	Solenoid Valve	ASCO	NP8320A168V	Aux. Stm Room	135'-0"
Q2N23SV3228AA-A/JB	Terminal Block	States Co.	Type TWM	Aux. Stm Room	144'-0"
Q2N23SV3228BA-A/JB	Terminal Block	States Co.	Type TWM	Aux. Stm Room	144'-0"
Q2N23SV3228CA-A/JB	Terminal Block	States Co.	Type TWM	Aux. Stm Room	144'-0"
Q2N23SV3227AA-A/JB	Terminal Block	States Co.	Type TWM	Aux. Stm Room	144'-0"
Q2N23SV3227BA-A/JB	Terminal Block	States Co.	Type TWM	Aux. Stm Room	144'-0"
Q2N23SV3227CA-A/JB	Terminal Block	States Co.	Type TWM	Aux. Stm Room	144'-0"
2VAFU-U4C	Power Cable			Aux. Stm Room	135'-0" & above
2VAFU-U5C	Power Cable			Aux. Stm Room	135'-0" & above
2VAFU-X2C	Power Cable			Aux. Stm Room	135'-0" & above
2VAFU-U4A, B	Control Cables			Aux. Stm Room	135'-0" & above

SOD 1316 1/80

U2YYJ0103

MASTER LIST 0060695

Joseph M. Farley Nuclear Plant Unit 2

Section C.2.16
Sheet 32 of

(CLASS IE ELECTRICAL EQUIPMENT REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS)

SYSTEM: AUXILIARY FEEDWATER N-23

COMPONENTS					
PLANT ID NUMBER	GENERIC NAME	MANUFACTURER	MODEL	LOCATION BLDG	LOCATION ELEV
2VAFU-U5A, D	Control Cables			Mn. Stm Room	135'-0" & above
2VAFU-U2A, D	Control Cables			Mn. Stm Room	135'-0" & above
2VAL5007B	Control Cable			Mn. Stm Room	135'-0" & above
2VAL5008B	Control Cable			Mn. Stm Room	135'-0" & above
2VAL5009B	Control Cable			Mn. Stm Room	135'-0" & above
2VAL5007C	Instrument Cable			Mn. Stm Room	135'-0" & above
2VAL5008C	Instrument Cable			Mn. Stm Room	135'-0" & above
2VAL5009C	Instrument Cables			Mn. Stm Room	135'-0" & above
2VAQ5010E, K	Control Cables			Mn. Stm Room	135'-0" & above
2VAQ5012E, K	Control Cables			Mn. Stm Room	135'-0" & above
2VAQ5014E, K	Control Cables			Mn. Stm Room	135'-0" & above
2VXR5007K, L, M	Control Cables			Mn. Stm Room	135'-0" & above
2VAL5013C	Control Cable			Mn. Stm Room	135'-0" & above
2VAL5014C	Control Cable			Mn. Stm Room	135'-0" & above
2VAL5015C	Control Cable			Mn. Stm Room	135'-0" & above
2VAL5013D	Instrument Cable			Mn. Stm Room	135'-0" & above
2VAL5014D	Instrument Cable			Mn. Stm Room	135'-0" & above
2VAL5015D	Instrument Cable			Mn. Stm Room	135'-0" & above
2VAQ5048H, K	Control Cables			Mn. Stm Room	135'-0" & above
2VAL5006C, H	Control Cables			Mn. Stm Room	135'-0" & above
2VAQ5008C, H	Control Cables			Mn. Stm Room	135'-0" & above
2VXR5007G, H, J	Control Cables			Mn. Stm Room	135'-0" & above

QPD-1374 1/80

02993 1814

MASTER LIST

Joseph M. Farley Nuclear Plant Unit 2

0000696

Section C.2.17
Sheet 11

(CLASS 1E ELECTRICAL EQUIPMENT REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS)

SYSTEM: CHEMICAL INJECTION SYSTEM M-25

COMPONENTS					
PLANT ID NUMBER	GENERIC NAME	MANUFACTURER	MODEL	LOCATION	
				BLDG	ELEV
Q2N25SV3772A (HV3772A)	Solenoid Valve	ASCO	NP8316A74V	Nn. Stm Room	141'-6"
Q2N25ZS3772A (HV3772A)	Limit Switch	NAMCO	EA-180	Nn. Stm Room	141'-6"
Q2N25SV3772B (HV3772B)	Solenoid Valve	ASCO	NP8316A74V	Nn. Stm Room	141'-6"
Q2N25ZS3772B (HV3772B)	Limit Switch	NAMCO	EA-180	Nn. Stm Room	141'-6"
Q2N25SV3772C (HV3772C)	Solenoid Valve	ASCO	NP8316A74V	Nn. Stm Room	141'-6"
Q2N25ZS3772C (HV3772C)	Limit Switch	NAMCO	EA-180	Nn. Stm Room	141'-6"
Q2N25SV3772A-A/JB	Terminal Block	States Co.	Type ZWM	Nn. Stm Room	139'-0"
Q2N25SV3772B-A/JB	Terminal Block	States Co.	Type ZWM	Nn. Stm Room	139'-0"
Q2N25SV3772C-A/JB	Terminal Block	States Co.	Type ZWM	Nn. Stm Room	139'-0"
2VAL5076A	Control Cable			Nn. Stm Room	139'-0" & above
2VAL5077A	Control Cable			Nn. Stm Room	139'-0" & above
2VAL5078A	Control Cable			Nn. Stm Room	139'-0" & above
2VAQ5030E	Control Cable			Nn. Stm Room	139'-0" & above
2VAQ5031E	Control Cable			Nn. Stm Room	139'-0" & above
2VAQ5032E	Control Cable			Nn. Stm Room	139'-0" & above
2VXR5008G, H, J	Control Cable			Nn. Stm Room	139'-0" & above

(CLASS 1E ELECTRICAL EQUIPMENT REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS)

SYSTEM: SAMPLING SYSTEM

P-15

COMPONENTS					
PLANT ID NUMBER	GENERIC NAME	MANUFACTURER	MODEL	LOCATION BLDG	LOCATION ELEV
Q2P15SV3103 (MV3103)	Solenoid Valve	ASCO	NP8320A184V	CTMT	129'-0"
Q2P15ZS3103 (MV3103)	Limit Switch	NAMCO	EA-180	CTMT	129'-0"
Q2P15SV3765 (MV3765)	Solenoid Valve	ASCO	NP8320A184V	CTMT	129'-0"
Q2P15ZS3765 (MV3765)	Limit Switch	NAMCO	EA-180	CTMT	129'-0"
Q2P15SV3766 (MV3766)	Solenoid Valve	ASCO	NP8320A184V	CTMT	129'-0"
Q2P15ZS3766 (MV3766)	Limit Switch	NAMCO	EA-180	CTMT	129'-0"
Q2P15SV3179A (MV3179A)	Solenoid Valve	ASCO	NP8320A184V	CTMT	129'-0"
Q2P15ZS3179A (MV3179A)	Limit Switch	NAMCO	EA-180	CTMT	129'-0"
Q2P15SV3179B (MV3179B)	Solenoid Valve	ASCO	NP8320A184V	CTMT	129'-0"
Q2P15ZS3179B (MV3179B)	Limit Switch	NAMCO	EA-180	CTMT	129'-0"
Q2P15SV3179C (MV3179C)	Solenoid Valve	ASCO	NP8320A184V	CTMT	129'-0"
Q2P15ZS3179C (MV3179C)	Limit Switch	NAMCO	EA-180	CTMT	129'-0"
Q2P15SV3180A (MV3180A)	Solenoid Valve	ASCO	NP8320A184V	CTMT	129'-0"
Q2P15ZS3180A (MV3180A)	Limit Switch	NAMCO	EA-180	CTMT	129'-0"
Q2P15SV3180B (MV3180B)	Solenoid Valve	ASCO	NP8320A184V	CTMT	129'-0"
Q2P15ZS3180B (MV3180B)	Limit Switch	NAMCO	EA-180	CTMT	129'-0"
Q2P15SV3180C (MV3180C)	Solenoid Valve	ASCO	NP8320A184V	CTMT	129'-0"
Q2P15ZS3180C (MV3180C)	Limit Switch	NAMCO	EA-180	CTMT	129'-0"
Q2P15SV3181A (MV3181A)	Solenoid Valve	ASCO	NP8320A184V	CTMT	129'-0"
Q2P15ZS3181A (MV3181A)	Limit Switch	NAMCO	EA-180	CTMT	129'-0"
Q2P15SV3181B (MV3181B)	Solenoid Valve	ASCO	NP8320A184V	CTMT	129'-0"
Q2P15ZS3181B (MV3181B)	Limit Switch	NAMCO	EA-180	CTMT	129'-0"
Q2P15SV3181C (MV3181C)	Solenoid Valve	ASCO	NP8320A184V	CTMT	129'-0"
Q2P15ZS3181C (MV3181C)	Limit Switch	NAMCO	EA-180	CTMT	129'-0"
Q2P15SV3104 (MV3104)	Solenoid Valve	ASCO	NP8320A184V	CTMT	129'-0"

MASTER LIST

Joseph M. Farley Nuclear Plant Unit 2

(CLASS IE ELECTRICAL EQUIPMENT REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS)

SYSTEM: SAMPLING SYSTEM P-15

COMPONENTS					
PLANT ID NUMBER	GENERIC NAME	MANUFACTURER	MODEL	LOCATION	
				BLDG	ELEV
Q2P15ZB3104 (HV3104)	Limit Switch	NAMCo	EA-180	CTMT	129'-0"
Q2T52B019	Penetration	General Electric	100 Series	CTMT	143'-0"
Q2P15SV3103-A/JB	Terminal Block	States Co.	Type ZWM	CTMT	135'-9"
Q2P15SV3765-A/JB	Junction Box	States Co.	Type ZWM	CTMT	135'-0"
Q2T52B007	Penetration	General Electric	100 Series	CTMT	143'-0"
Q2P15SV3766-A/JB	Terminal Block	States Co.	Type ZWM	CTMT	135'-9"
Q2P15SV3179A-A/JB	Terminal Block	States Co.	Type ZWM	CTMT	135'-9"
Q2P15SV3179B-A/JB	Terminal Block	States Co.	Type ZWM	CTMT	135'-9"
Q2P15SV3179C-B/JB	Terminal Block	States Co.	Type ZWM	CTMT	135'-9"
Q2T52B020	Penetration	General Electric	100 Series	CTMT	143'-0"
Q2P15SV3180A-A/JB	Terminal Block	States Co.	Type ZWM	CTMT	135'-9"
Q2P15SV3180B-A/JB	Terminal Block	States Co.	Type ZWM	CTMT	135'-9"
Q2P15SV3180C-B/JB	Terminal Block	States Co.	Type ZWM	CTMT	135'-9"
Q2P15SV3181A-A/JB	Terminal Block	States Co.	Type ZWM	CTMT	135'-9"
Q2P15SV3181B-A/JB	Terminal Block	States Co.	Type ZWM	CTMT	135'-9"
Q2P15SV3181C-A/JB	Terminal Block	States Co.	Type ZWM	CTMT	135'-9"
Q2P15SV3104-A/JB	Terminal Block	States Co.	Type ZWM	CTMT	135'-9"
2VAL5063B	Control Cable			CTMT	129'-0" & above
2VAQ5049H	Control Cable			CTMT	129'-0" & above
2VXR5010B	Control Cable			CTMT	129'-0" & above
2VAL5065B	Control Cable			CTMT	129'-0" & above
2VAQ5032J	Control Cable			CTMT	129'-0" & above
2VXR5010F	Control Cable			CTMT	129'-0" & above
2VAL5066A	Control Cable			CTMT	129'-0" & above
2VAQ5033J	Control Cable			CTMT	129'-0" & above

GWD-1774 1/80

U2993 18817

MASTER LIST

Joseph M. Farley Nuclear Plant Unit 2 — 0060099 — Section C.2.18 Sheet 36 of

(CLASS 1E ELECTRICAL EQUIPMENT REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS)

SYSTEM: SAMPLING SYSTEM — P-15

COMPONENTS					
PLANT ID NUMBER	GENERIC NAME	MANUFACTURER	MODEL	LOCATION BLDG	LOCATION ELEV
2VXCR5010H	Control Cable			CTMT	129'-0" & above
2VAL5084B	Control Cable			CTMT	129'-0" & above
2VAL5085B	Control Cable			CTMT	129'-0" & above
2VBL5074B	Control Cable			CTMT	129'-0" & above
2VAL5086B	Control Cable			CTMT	129'-0" & above
2VAL5087B	Control Cable			CTMT	129'-0" & above
2VBL5075B	Control Cable			CTMT	129'-0" & above
2VAL5088B	Control Cable			CTMT	129'-0" & above
2VAL5089B	Control Cable			CTMT	129'-0" & above
2VBL5076B	Control Cable			CTMT	129'-0" & above
2VAL5064B	Control Cable			CTMT	129'-0" & above
2VAQ5047H	Control Cable			CTMT	129'-0" & above
2VXCR5010D	Control Cable			CTMT	129'-0" & above

GPD-1314 1/80

Joseph M. Farley Nuclear Plant Unit 2 — MASTER LIST 0060700 — Section C.2.19 Sheet 37 of

CLASS 1E ELECTRICAL EQUIPMENT REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM: SERVICE WATER — P-16

COMPONENTS					
PLANT ID NUMBER	GENERIC NAME	MANUFACTURER	MODEL	LOCATION BLDG	LOCATION ELEV
Q2P16V207A (MOV3441A)	10" Motor Operated Gate Valve	Limitorque	SMB-00	CTMT	130'-0"
Q2P16V207B (MOV3441B)	10" Motor Operated Gate Valve	Limitorque	SMB-00	CTMT	130'-0"
Q2P16V207C (MOV3441C)	10" Motor Operated Gate Valve	Limitorque	SMB-00	CTMT	130'-0"
Q2P16V207D (MOV3441D)	10" Motor Operated Gate Valve	Limitorque	SMB-00	CTMT	130'-0"
Q2P16V081 (MOV3131)	6" Motor Operated Gate Valve	Limitorque	SMB-00	CTMT	130'-0"
Q2T52B005	Penetration	General Electric	100 Series	CTMT	143'-0"
Q2T52B015	Penetration	General Electric	100 Series	CTMT	143'-0"
Q2T52B007	Penetration	General Electric	100 Series	CTMT	143'-0"
Q2T52B020	Penetration	General Electric	100 Series	CTMT	143'-0"
Q2T52B014	Penetration	General Electric	100 Series	CTMT	143'-0"
Q2T52B019	Penetration	General Electric	100 Series	CTMT	143'-0"
2VBFV-J4Q	Power Cable			CTMT	130'-0" & above
2VBFV-J4D	Control Cable			CTMT	130'-0" & above
2VBQ5007D	Control Cable			CTMT	130'-0" & above
2VTR4006B, D	Control Cables			CTMT	130'-0" & above
2VTX8164B, C	Control Cables			CTMT	130'-0" & above
2VBFV-J5Q	Power Cable			CTMT	130'-0" & above
2VBFV-J5D	Control Cable			CTMT	130'-0" & above
2VBQ5009D	Control Cable			CTMT	130'-0" & above
2VAFU-K6Q	Power Cable			CTMT	130'-0" & above
2VAFU-K6D	Control Cable			CTMT	130'-0" & above
2VAC5007D	Control Cable			CTMT	130'-0" & above
2VTR5005B, D, F	Control Cables			CTMT	130'-0" & above
2VTX8164B, C	Control Cables			CTMT	130'-0" & above
2VAFU-W2Q	Power Cable			CTMT	130'-0" & above

GPD-1274 1/80

U2993 1819

Joseph M. Farley Nuclear Plant Unit 2

MASTER LIST

0060701

Section C.2.19
Sheet 38 of

(CLASS IE ELECTRICAL EQUIPMENT REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS)

SYSTEM: SERVICE WATER P-16

COMPONENTS					
PLANT ID NUMBER	GENERIC NAME	MANUFACTURER	MODEL	LOCATION BLDG	LOCATION ELEV
2VAPU-W2D	Control Cable			CTMT	130'-0" & above
2VAPU-H4Q	Power Cable			CTMT	130'-0" & above
2VAPU-H4A	Control Cable			CTMT	130'-0" & above
2VAQ5002F	Control Cable			CTMT	130'-0" & above

GPD-1374 1/80

02993 18 20

Joseph M. Farley Nuclear Plant U 2 — MASTER LIST — 0060702 — Section C.2.2U Sheet 19

(CLASS 1E ELECTRICAL EQUIPMENT REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS)

SYSTEM: COMPONENT COOLING WATER — F-17

COMPONENTS					
PLANT ID NUMBER	GENERIC NAME	MANUFACTURER	MODEL	LOCATION BLDG	LOCATION ELEV
Q2P17V097 (MOV3046)	6" Motor Operated Gate Valve	Limitorque	SMB-00	CTMT	130'-6"
Q2P17SV3184 (MV3184)	Solenoid Valve	ASCO	NP8316A77V	CTMT	118'-0"
Q2P17ZS3184 (MV3184)	Limit Switch	NAMCO	EA-180	CTMT	118'-0"
Q2P17SV3443 (MV3443)	Solenoid Valve	ASCO	NP8316A74V	CTMT	129'-0"
Q2P17ZS3443 (MV3443)	Limit Switch	NAMCO	EA-180	CTMT	129'-0"
Q2T52B016	Penetration	General Electric	100 Serie	CTMT	143'-0"
Q2T52B038	Penetration	General Electric	100 Series	CTMT	143'-0"
Q2T52B020	Penetration	General Electric	100 Series	CTMT	143'-0"
Q2P17SV3184-B/JB	Terminal Block	States Co.	Type ZWM	CTMT	118'-0"
Q2T52B019	Penetration	General Electric	100 Series	CTMT	143'-0"
Q2T52B041	Penetration	General Electric	100 Series	CTMT	143'-0"
Q2P17SV3443-A/JB	Terminal Block	States Co.	Type ZWM	CTMT	129'-0"
2VBFV-C3Q	Power Cable			CTMT	118'-0" & above
2VBFV-C3D	Control Cable			CTMT	118'-0" & above
2VBQ5017C	Control Cable			CTMT	118'-0" & above
2VYR3006F	Control Cable			CTMT	118'-0" & above
2VBL5009C,D,E,F	Control Cables			CTMT	118'-0" & above
2VBQ5017H	Control Cable			CTMT	118'-0" & above
2VYR5023B	Control Cable			CTMT	118'-0" & above
2VAL5055C	Control Cable			CTMT	118'-0" & above
2VAQ5029H	Control Cable			CTMT	118'-0" & above
2VYR5064F	Control Cable			CTMT	118'-0" & above

GPD 1374 1/80

0299318021

APPENDIX III

ENVIRONMENTAL QUALIFICATION TEST REPORT LIST

LIST OF EFFECTIVE PAGES

0060704

PAGE NO.	REVISION NO. 0	1	2	3	4	5	6	7	8	9	10	11
1	X											
2	X											
3	X											
4	X											
5	X											
6	X											

ATTACHMENT
ACCEPTABLE TEST REPORT LIST

MANUFACTURER	MODEL	INSTRUMENT	TEST REPORTS
Automatic Switch Company (ASCO)	NP Series	Solenoid Valves	Automatic Switch Company Test Report AQS21678/TR, Rev. A, dated July, 1979
	206 Series	Solenoid Valves	Automatic Switch Company Test Report AQS21678/TR Rev. A, dated July, 1979
Barton	763 Lot 1	Pressure Transmitter	WS-TMA-1950 WS-TMA-2120
	764 Lot 1	Level Transmiter	WS-TMA-1950 WS-TMA-2120
	763 Lot 2	Pressure Transmitter	WCAP-9885-Environmental Qualification of ITT/Barton Transmitters
	764 Lot 2	Level Transmitter	WCAP-9885-Environmental Qualification of ITT/Bartoe Transmitters
Boston Insulated Wire and Cable Company	LSS-1802	Instrument Cable	Boston Insulated Wire and Cable Company Test Report 73E062, dated 09-07-73

ATTACHMENT 4
ACCEPTABLE TEST REPORT LIST

MANUFACTURER	MODEL	INSTRUMENT	TEST REPORTS
Foxboro	E11GM(MCA)	Pressure Transmitter	WCAP 8541-Topical Report Seismic and Environmental Testing of Foxboro Transmitters
	E13DM	Flow Transmitters	WCAP-9157-Environmental Qualification of Safety Related Class IE Process Instrumentation
GEMS Delavel	XM-36495	Level Transmitters	FIRL Test Report F-C3834 dated 03-74 Isomedix Test Report for GEMS Liquid Level Sensor dated 11-75
	LS-36497	Level Switch	FIRL Test Report F-C3834 dated 03-74 Isomedix Test Report for GEMS Liquid Sensor date 11/75

0060706

ATTACHMENT 4
ACCEPTABLE TEST REPORT LIST

MANUFACTURER	MODEL	INSTRUMENT	TEST REPORTS
General Electric	100 Series	Penetrations	General Electric Company Report - Low Voltage Electrical Containment Qualification Test Report
Joy Manufacturing	Type P	Containment Fan Motor	Joy Manufacturing Company Qualification Test Report X-604
Limitorque		Motor Operations	Limitorque Corporation Test Report 600456, dated 12-06-75 Limitorque Corporation Technical Report No. F-C3441, dated 09-72 Limitorque Corporation Technical Report No. F-C2232-01, dated 11-68

ATTACHMENT 4
ACCEPTABLE TEST REPORT LIST

MANUFACTURER	MODEL	INSTRUMENT	TEST REPORTS
NAMCO	EA-180	Limit Switch	ACME-Cleveland Development Company Qualification Report No. [illegible]/105, Revision 3, dated 08-28-80
	EA-740	Limit Switch	ACME-Cleveland Development Company Report, "Qualification of NAMCO Controls Limit Switch Model EA-740 to IEEE Standards 344 (1975), 323 (1974) and 382 (1972)," Revision 1, dated 02-22-79
Okonite	R/A	Control and Power Cable	Okonite Company Engineering Report No. 141, dated 02-29-7 Okonite Company Engineering Report No. R-1, dated 07-03-78 Okonite Report No. APFNP0183 dated 01-12-83 ⚠

8070900

ATTACHMENT 4
ACCEPTABLE TEST REPORT LIST

MANUFACTURER	MODEL	INSTRUMENT	TEST REPORTS
Rosemount	176 KF	RTD	WCAP 9157 - Environmental of Safety Related Class IE Process Instrumentation
	176 KS	RTD	WCAP 9157- Environmental Qualification of Safety Related Class IE Process Instrumentation
States	Type ZWM	Terminal Block	Wyle Laboratories NEQ Test Report 44354-1, dated 03-08-79
Victoreen	877-1	Radiation Monitor	Victoreen Test Report 950.301, dated 06-19-81

ATTACH 4
ACCEPTABLE TEST REPORT LIST

⚠ NEW SHEET

MANUFACTURER	MODEL	INSTRUMENT	TEST REPORTS
Westinghouse	N/A	Penetration	PEM-TR-79-07 dated 01-25-79 Technical Report and Qualification Data for Low Voltage Control and Instrument Electrical Penetrations.

APPENDIX IV

COMPONENT, MAINTENANCE AND REPLACEMENT SCHEDULE

LIST OF EFFECTIVE PAGES

0060712

PAGE NO.	REVISION NO. 0	1	2	3	4	5	6	7	8	9	10	11
1	X											
2	X											
3	X											
4	X											
5	X											
6	X											
7	X											
8	X											
9	X											
10	X											
11	X											
12	X											
13	X											
14	X											
15	X											
16	X											
17	X											
18	X											
19	X											
20	X											
21	X											
22	X											
23	X											

UNDETERMINABLE LIFE EQUIPMENT
UNIT 1

MANUFACTURER	PLANT I.D. NUMBER	GENERIC NAME	MODEL	LOCATION	LIFE	DATE INSTAL MONTH/YEAR	MAINT. MONTH/YR
GEMS Delaval	Q1E11LT3594A	Level Trans.	XM-36495	CTMT	*	12/77	
	3594B						
	Q1G21LT3282A-A	Level Sensor	XM-54854	CTMT		11/79	
	3282B-B						
	Q1N21LSH2828A	Level Switch	LS-36497	M S RM		12/77	
	2828B						
	2828C						
	2829A						
	2829B						
	2829C						
Target Rock	Q1B13SV2213A	Solenoid Valve	79AB001	CTMT	*	11/79	
	2213B						
	2214A						
	2214B						

*To be determined following the completion of ongoing qualification tests of analogous or similar equipment and subsequent evaluation of test results.

MANUFACTURER	PLANT I.D. NUMBER	GENERIC NAME	MODEL	LOCATION	LIFE	DATE INSTAL MONTH/YEAR	MAINT. MONTH/YR
NAMCO	QIN23ZS3227A	Limit Switch	EA-180	M S RM	18 Yrs	03/82	03/00
	3227B						
	3227C						
	3228A						
	3228B						
	3228C						
	QIN2SZS3772A		EA-180	MS RM	18 Yrs	03/82	3/00
	3772B						
	3772C		EA-740	CTMT	6.1 Yrs	12/77	01/84
	QIP13ZS2866B		EA-180		6.1 Yrs	11/79	12/85
	2867B						
	3196		EA-180	CTMT	6.1 Yrs	11/79	12/85
	3197						
	QIP1SZS3103						
	3104						
	3179A						
	3179B						
	3179C						
	3180A						
	3180B						
	3180C						
	3181A						
	3181B						
	3181C						
	3765						
	3766						
	QIP17ZS3184		EA-180	CTMT	6.1 Yrs	11/79	12/85
	3443						
Rosemount	NIB13IE4'2B	RTD	176KF	CTMT	10 Yrs	12/77	12/87
	4120						
	4228						
	4220						
	4328						
	4320		176KS	CTMT	Under Eval.	12/77	
	NIB2IIE410						
	413						
	420						
	423						
	430						
	433						

0 INDETERMINATE LIFE EQUIPMENT
UNIT 1

MANUFACTURER	PLANT I.D. NUMBER	GENERIC NAME	MODEL	LOCATION	LIFE	DATE INSTAL MONTH/YEAR	MAINT. MONTH/YR
Barton Lot 1	NIB21PI402	Press. Trans.	763	CIMI	*	11/79	
	403						
	QIB31EI45?	Level Trans	764	CIMI		11/79	
	460						
	461						
	QIC22EI474	Level Trans.	764	CIMI		11/79	
	475						
	476						
	484						
	485						
	486						
	494						
	495						
	496						
	QIM11LI47?	Level Trans.	764	CIMI		11/79	
	46						
	4						
Foxboro	QIB31PI4..	Press Trans.	E11GM (MCA)	CIMI	*	12/77	
	456						
	457						
	QIC22FI474	Flow Trans.	E13DM	CIMI		12/77	
	475						
	484						
	485						
	494						
	495						

0060715

*To be determined following the completion of ongoing qualification tests of analogous or similar equipment and subsequent evaluation of test results.

MANUFACTURER	PLANT I.D. NUMBER	GENERIC NAME	MODEL	LOCATION	LIFE	DATE INSTAL MONTH/YEAR	MAINT. MONTH/YR
ASCO	NIB31SV0444BA	Solenoid Valve	NP831654V	CTMT	8 Yrs	03/81	03/89
	0444B9						
	0445AA						
	0445AB						
	QIB31SV8047		NP831654V	CTMT	8 Yrs	11/79	11/87
	NIC22SV0478A		HV-2063812RVU	M S RM	18 Yrs	03/82	3/00
	0478B						
	0479A		HV-2063814RVU				
	0479B						
	0488A		HV-2063812RVU				
	0488B						
	0489A		HV-2063814RVU				
	0489B						
	0498A		HV-2063812RVU				
	0498B						
	0499A		HV-2063814RVU				
	0499B						
	QIE12SV3999A			CTMT		To be replaced at 4th R.O.	
	3999B						
	QIE21SV8149AB		206-381-6RF	CTMT	8 Yrs	12/77	12/85
	8149BB						
	8149CB						
	8871		NP831654V			04/80	04/80
	QIG21SV3376		NP831654V	CTMT	8 Yrs	04/80	04/88
	7126		NP831654V				
	NIG21SV1003B		206-381-6RF	CTMT	8 Yrs	11/79	11/87
	QIM11SV3368AA		NP8321A2V	M S RM	18 Yrs	03/82	3/00
	3368BA						
	3368CA						
	3369AC		NP8316E36V				
	3369BC						
	3369CC						
	3370AC						
	3370BC						
	3370CC						
	3976A		NP8321A2V				
	3976B						
	3976C						
	QIB12SV3234A		NP8320A1367	M S RM	18 Yrs	03/82	3/00
	3234B						
	3235A		NP8321A2V				

9710090716

O 2 LIMITED LIFE EQUIPMENT
UNIT 1

MANUFACTURER	PLANT I.D. NUMBER	GENERIC NAME	MODEL	LOCATION	LIFE	DATE INSTAL MONTH/YEAR	MAINT MONTH/YR
ASCO	Q2N235V3227AA 3227BA 3227CA 3228AA 3228BA 3228CA	Solenoid Valve		M S RM		To be replaced per PCN 81-217 with Model NP8320A196E having a qualified life of 18 yrs during the 4th R.O.	
	Q1N255V3772A		NP8316A74V	M S RM	18 Yrs	03/82	3/00
	3772B 3772C		NP831654V	CIMT	8 Yrs	04/80	04/88
	Q1P135V2866B 2867B		NP8320A184V	CIMT	8 Yrs	04/80	04/88
	Q1P155V3103 3104 3179A 3179B 3179C 3180A 3180B 3180C 3181A 3181B 3181C 3765						
	3766 Q1P175V3184 3443		NP8316A76V NP8316A74V	CIMT	8 Yrs	04/80	04/89

4170000

MANUFACTURER	PLANT I.D. NUMBER	GENERIC NAME	MODEL	LOCATION	LIFE	DATE INSTAL MONTH/YEAR	MAINT. MONTH/YR
NAMCO*	Q1B13ZS2034	Limit Switch	EA-180	CIMT	6.1 Yrs	11/79	12/85
	2035						
	2036						
	Q1B31ZS0444		EA-180	CIMT	6.1 Yrs	11/79	12/85
	0445						
	N1B31ZS8047		EA-180	CIMT	6.1 Yrs	11/79	12/85
	N1C22ZS0478		EA-180	MS RM	18 Yrs	03/82	3/00
	0479						
	0488						
	0489						
	0498						
	0499						
	Q1E12ZS3999A		EA-180	CIMT	6.1 Yrs	11/79	12/85
	3999B						
	N1E21ZS8149A		EA-180	CIMT	6.1 Yrs	11/79	12/85
	8149B						
	8149C						
	Q1E21ZS8808AB		EA-180	CIMT	8 Yrs	03/82	03/90
	8808BB						
	8808CB						
	8871				6.1 Yrs	11/79	12/85
	Q1G21ZS3376		EA-180	CIMT	6.1 Yrs	11/79	12/85
	7126						
	N1G21ZS1003B		EA-180	CIMT	8 Yrs	03/82	03/90
	Q1N11ZS3368A		EA-180	M S RM	18 Yrs	03/82	3/00
	3368B						
	3368C						
	3369A						
	3369B						
	3369C						
	3370A						
	3370B						
	3370C						
	3976A						
	3976B						
	3976C						
	Q1N12ZS3234A			M S RM	18 Yrs	03/82	03/00
	3234B						
	3235A						
	3235B						

MANUFACTURER	PLANT I.D. NUMBER	GENERIC NAME	MODEL	LOCATION	LIFE	DATE INSTAL MONTH/YEAR	MAINT. MONTH/YR
RANCO	QIM23ZS3227A	Limit Switch	EA-180	M S RM	18 Yrs	03/82	03/00
	3227B						
	3227C						
	3228A						
	3228B						
	3228C						
	QIM25ZS3772A		EA-180	MS RM	18 Yrs	03/82	3/00
	3772B						
	3772C						
	QIP13ZS2866B		EA-740	CTMT	6.1 Yrs	12/77	01/84
	2867B						
	3196		EA-180		6.1 Yrs	06/79	12/85
	3197						
	QIP15ZS3103		EA-180	CTMT	6.1 Yrs	11/79	12/85
	3104						
	3179A						
	3179B						
	3179C						
	3180A						
	3180B						
	3180C						
	3181A						
	3181B						
	3181C						
	3765						
	3766						
	QIP17ZS3184		EA-180	CTMT	6.1 Yrs	11/79	12/85
	3443						
Rosemount	NIB13IE412B	RTD	176KF	CTMT	10 Yrs	12/77	12/87
	412D						
	422B						
	422D						
	432B						
	432D						
	NIB21IE410		176KS	CTMT	Under Eval.	12/77	
	413						
	420						
	423						
	430						
	433						

8710080019

MANUFACTURER	PLANT I.D. NUMBER	GENERIC NAME	MODEL	LOCATION	LIFE	DATE INSTAL MONTH/YEAR	MAINT. MONTH/YR
Cable	Cable manufacturers are subject to change without notice. Cable is adequately identified by IPNS No. in the Equipment Master List. No maintenance activities are required.	----	---	CIMT and MS RM	40 Yrs	12/77	N/A
G.E.	Q11S2B001 B002 B005 B006 B007 B009 B010 B011 B012 B014 B015 B016 B017 B019 B020 B022 B023 B024 B025 B028 B030 B038 B040 B041 B042	Penetration	1000 Series	CIMT	40 Yrs	12/77	N/A

0000720

MANUFACTURER	PLANT I.D. NUMBER	GENERIC NAME	MODEL	LOCATION	LIFE	DATE INSTAL MONTH/YEAR	MAINT. MONTH/YR
Joy Mfg. Co.	Q1E12M001A	CTMT Clr Fan	Type P	CTMT	40 Yrs	12/77	N/A
	M001B						
	M001C						
	M001D						
	Q1E19M001A	Mixing Fan Mtr					
	M001B						
	M001C						
	M001D						
	Q1E22M001A	Dilut Fan Mtr					
	M001B						
Limitorque	Q1E14M0V3660	Motor Operator	SMB-000	CTMT	40 Yrs	12/77	N/A
	3318B						
	Q1E21M0V8808A		SMB-4	CTMT			
	8808B						
	8808C						
	8112		SMB-00				
	Q1E22M0V3872A		SMB-000	CTMT			
	3872B						
	Q1E23M0V3528A		SMB-000	CTMT			
	3528B						
	3528C						
	3528D						
	3530		SMB-00				
	3536						
	3835A		SMB-000				
	3835B						
	Q1N21M0V3232A		SMB-4T	M S RM			
	3232B						
	3232C						
	Q1N23M0V3350A		SMB-1	M S RM			
	3350B						
	3350C						
	Q1P16M0V3131		SMB-0P	CTMT			
	3441A						
	3441B						
	3441C						
	3441D						
	Q1P17M0V3046		SMB-00	CTMT			

T220000

0 30 YEAR DIFE EQUIPMENT
UNIT 1

MANUFACTURER	PLANT I.D. NUMBER	GENERIC NAME	MODEL	LOCATION	LIFE	DATE INSTAL MONTH/YEAR	MAINT. MONTH/YR
States Co	111B001	Terminal Block	Type ZWM	CTMT	40 Yrs	12/77	N/A
	B002						
	B003						
	B004						
	211B001						
	B002						
	B003						
	B004						
	B005						
	311B001						
	B002						
	A11B007			M S RM			
	5034			CTMT			
	B11B025			CTMT			
	Q1B136001-B						
	SV2213A-A/JB						
	2213B-B/JB						
	2214A/JB						
	2214B-B/JB			CTMT			
	N1B31SV0444BA-B/JB						
	0445AA-A/JB						
	8047-B/JB			M S RM			
	N1CZ2SV0478A-A/JB						
	0488A-A/JB						
	0498A-A/JB			CTMT			
	Q1E12SV3999A-A/JB						
	3999B-B/JB			CTMT			
	N1E21SV8149AA-A/JB						
	8149BA-A/JB						
	8149CA-A/JB						
	8871-A/JB			CTMT			
	Q1G21SV3376-B/JB			CTMT			
	N1G21SV1003A-A/JB						
	1126-A/JB			M S RM			
	Q1N11SV3368AA-A/JB						
	3368BA-A/JB						
	3368CA-A/JB						
	3369AA-A/JB						
	3369BA-A/JB						
	3369CA-A/JB						

00E0722

UNIT 1

MANUFACTURER	PLANT I.D. NUMBER	GENERIC NAME	MODEL	LOCATION	LIFE	DATE INSTAL MONTH/YEAR	MAINT. MONTH/YR
States Co	QIN11SV3370AA-B/JB	Terminal Block	Type ZWM	M S RM	40 Yrs.	12/77	N/A
	3370BA-B/JB						
	3370CA-B/JB						
	3976A-B/JB						
	3976B-B/JB						
	3976C-B/JB			M S RM			
	QIN12SV3234A-A/JB						
	3234B-B/JB						
	3235A-A/JB						
	3235B-B/JB			MS RM			
	QIN23SV3227AA-A/JB						
	3227BA-A/JB						
	3227CA-A/JB						
	3228AA-A/JB						
	3228BA-A/JB						
	3228CA-A/JB			MS RM			
	QIN25SV3772A-A/JB						
	3772B-A/JB						
	3772C-A/JB			CTMT			
	QIP13SV2867B-B/JB						
	2866B-B/JB						
	3196-B/JB						
	3197-B/JB			CTMT			
	QIP15SV3103-A/JB						
	3104-A/JB						
	3179A-A/JB						
	3179B-A/JB						
	3179C-B/JB						
	3180A-A/JB						
	3180B-A/JB						
	3180C-B/JB						
	3181A-A/JB						
	3181B-A/JB						
	3181C-A/JB						
	3765-A/JB						
	3766-A/JB						
	QIP17SV3184-B/JB			CTMT			
	3443-A/JB						

MANUFACTURER	PLANT I.D. NUMBER	GENERIC NAME	MODEL	LOCATION	LIFE	DATE INSTAL MONTH/YEAR	MAINT. MONTH/YR
Victoreen	QIDZIRE0027A-A 0027B-B	Rad. Dect.	877-1	CTMT	40 Yrs	12/77	N/A
Westinghouse	QIE17G001A G001B	H_2 Recomb Htrs	Type A	CTMT	40 Yrs	12/77	N/A

MANUFACTURER	PLANT I.D. NUMBER	GENERIC NAME	MODEL	LOCATION	LIFE	DATE INSTAL MONTH/YEAR	MAINT. MONTH/YR
Barton Lot 2	MZB21PI402	Press. Trans.	763	CIMI	*	07/81	
	403						
	QZB31PI455	Press. Trans.	763				
	456						
	457						
	QZB31LI459	Level Trans.	764				
	460						
	461						
	QZC22FI474	Flow Trans.	764				
	475						
	484						
	485						
	494						
	495						
	QZC22LI474	Level Trans.	764				
	475						
	476						
	484						
	485						
	486						
	494						
	495						
	496						
	QZM11LI477	Level Trans.	764				
	487						
	497						

*To be determined following the completion of ongoing qualification tests of analogous or similar equipmen and subsequent evaluation of test results.

8210060725

MANUFACTURER	PLANT I.D. NUMBER	GENERIC NAME	MODEL	LOCATION	LIFE	DATE INSTAL MONTH/YEAR	MAINT. MONTH/YR
ASCO	NZ831SV0444BA	Solenoid Valve	----	CTMT	----	*	----
	0444BB						
	0445AA						
	0445AB						
	QZ831SV8047		NP831654E	CTMT	8 Yrs	07/81	07/89
	NZC22SV0478A		HV2063812RU	M S RM	18 Yrs	07/81	07/99
	0478B						
	0479A		HV-206-381-4U				
	0479B						
	0488A		HV-206-3812RU				
	0488B						
	0489A		HV-206-381-4U				
	0489B						
	0498A		HV-206-3812RU				
	0498B						
	0499A		HV-206-381-4U				
	0499B						
	QZE12SV3999A		----	CTMT	----	*	----
	3999B						
	QZE21SV8149AB		NP831654V	CTMT	8 Yrs	07/81	07/89
	8149BB						
	8149CB						
	8871						
	QZG21SV1003B		206-381-6RF	CTMT	8 Yrs	07/81	07/89
	3376		NP8316A74E				
	7126		NP8316A54E				

*To be replaced with a qualified model during the first refueling outage.

9211000

MANUFACTURER	PLANT I.D. NUMBER	GENERIC NAME	MODEL	LOCATION	LIFE	DATE INSTAL MONTH/YEAR	MAINT. MONTH/YR
ASCO	QZN115V3368AA	Solenoid Val	NP8321A2V	M S RM	18 Yrs	07/81	07/99
	3368BA						
	3368CA						
	3369AC		NP8316E36V				
	3369BC						
	3369CC						
	3370AC						
	3370BC						
	3370CC						
	3976A		NP8321A2V				
	3976B						
	3976C						
	QZN125V3234A		NP8320A186V	M S RM	18 Yrs	07/81	07/99
	3234B						
	3235A		NP8321A2V				
	3235B						
	QZN235V3227AA		NP8320A186V	M S RM	18 Yrs	07/81	07/99
	3227BA						
	3227CA						
	3228AA						
	3228BA						
	3228CA						
	QZN255V3772A		NP8316A74V	M S RM	18 Yrs	07/81	07/99
	3772B						
	3772C						
	QZP135V2866B		NP8316S4V	CTMT	8 Yrs	07/81	07/89
	2967B						
	QZP155V3103		NP8320A184V	CTMT	8 Yrs	07/81	07/89
	3104						
	3179A						
	3179B						
	3179C						
	3180A						
	3180B						
	3180C						
	3181A						
	3181B						
	3181C						
	3765						
	3766						
	QZP175V3184		NP8316A77V	CTMT	8 Yrs	07/81	07/89
	3443		NP8316A74V				

0060727

MANUFACTURER	PLANT I.D. NUMBER	GENERIC NAME	MODEL	LOCATION	LIFE	DATE INSTAL MONTH/YEAR	MAINT. MONTH/YR
NAMCO	QZ813ZS0444B	Limit Switch	EA-180	CIMT	6.1 Yrs	07/81	08/87
	0445A						
	2034						
	2035						
	2036						
	NZB31ZS8047		EA-180	CIMT	6.1 Yrs	07/81	08/87
	NZC22ZS0478		EA-180	M S RM	18 Yrs	07/81	07/99
	0479						
	0488						
	0489						
	0498						
	0499						
	QZE12ZS3999A		EA-180	CIMT	6.1 Yrs	07/81	08/87
	3999B						
	QZE21ZS8149A		EA-180	CIMT	6.1 Yrs	07/81	08/87
	8149B						
	8149C						
	8808AB						
	8808BB						
	8808CB						
	8871						
	NZG21ZS10038		EA-180	CIMT	6.1 Yrs	07/81	08/87
	QZG21ZS3376		EA-180	CIMT	6.1 Yrs	07/81	08/87
	7126						
	QZN11ZS3368A		EA-180	M S RM	19 Yrs	07/81	07/99
	3368B						
	3368C						
	3369A						
	3369B						
	3369C						
	3370A						
	3370B						
	3[illegible]						
	3[illegible]						
	3976B						
	3976C						
	QZN12ZS3234A		EA-180	M S RM	18 Yrs	07/81	07/99
	3234B						
	3235A						
	3235B						

000728

LIMITED LIFE EQUIPMENT
UNIT 2

MANUFACTURER	PLANT I.D. NUMBER	GENERIC NAME	MODEL	LOCATION	LIFE	DATE INSTAL MONTH/YEAR	MAINT. MONTH/YR
NAMCO	QZN23ZS3227A	Limit Switch	EA-180	M S RM	18 Yrs	07/81	07/99
	3227B						
	3227C						
	3228A						
	3228B						
	3228C						
	QZN25ZS3772A		EA-180	M S RM	18 Yrs	07/81	07/99
	3772B						
	3772C						
	QZP13ZS28668		EA-180	CTMT	6.1 Yrs	07/81	08/87
	2867B						
	3196						
	3197						
	QZP15ZS3103		EA-180	CTMT	6.1 Yrs	07/81	08/87
	3765						
	3766						
	3179A						
	3179B						
	3179C						
	3180A						
	3180B						
	3180C						
	3104						
	3181A						
	3181B						
	3181C						
	QZP17ZS3184		EA-180	CTMT	6.1 Yrs	07/81	08/87
	3443						

8702030276

MANUFACTURER	PLANT I.D. NUMBER	GENERIC NAME	MODEL	LOCATION	LIFE	DATE INSTAL MONTH/YEAR	MAINT. MONTH/YR
Rosemount	N2B131E412B 412D 422B 422D 432B 432D	RTD	176KF	CTMT	10 Yrs	07/81	07/91
	N2B21TE410 413 420 423 430 433		176KS	CTMT	Under Eval.	07/81	----

MANUFACTURER	PLANT I.D. NUMBER	GENERIC NAME	MODEL	LOCATION	LIFE	DATE INSTAL MONTH/YEAR	MAINT. MONTH/YR
Cable	Cable manufacturers are subject to change without notice. Cable is adequately identified by TPNS No. in the Equipment Master List. No maintenance activities are required.						
G.E.	Q21528001	Penetration	100 Series	CTMT	40 Yrs	07/81	N/A
	B002						
	B005						
	B006						
	B007						
	B009						
	C010						
	B011						
	B012						
	B014						
	B015						
	B016						
	B017						
	B019						
	B020						
	B022						
	B023						
	B024						
	B025						
	B028						
	B030						
	B038						
	B040						
	B041						
	B042						

MANUFACTURER	PLANT I.D. NUMBER	GENERIC NAME	MODEL	LOCATION	LIFE	DATE INSTAL MONTH/YEAR	MAINT. MONTH/YR
Joy Manuf	QZE12M001A	CTMT C Fan Mtr	Type P	CTMT	40 Yrs	07/81	N/A
	M001B						
	M001C						
	M001D						
	QZE19M001A	Mixing Fan Mtr					
	M001B						
	M001C						
	M001D						
	QZE22M001A	Dilu Fan Mtr					
	M001B						
Limitorque	QZE14MOV3318B	Mot. Valve Op.	SMB-000	CTMT	40 Yrs	07/81	N/A
	3660						
	QZE21MOV8083A		SMB-4	CTMT			
	8088B						
	8088C						
	8112		SMB-00				
	QZE22MOV3872A		SMB-00				
	3872B						
	QZE23MOV3528A		SMB-000	CTMT			
	3528B						
	3528C						
	3528D						
	3530		SMB-00				
	3536						
	3835A		SMB-000				
	3835B						
	QZM21MOV3232A		SMB-4T	M S RM			
	3232B						
	3232C						
	QZM23MOV3350A		SMB-1	M S RM			
	3350B						
	3350C						
	QZP16MOV3131		SMB-00	CTMT			
	3441A						
	3441B						
	3441C						
	3441D						
	QZP17MOV3046		SMB-00	CTMT			

0000732

MANUFACTURER	PLANT I.D. NUMBER	GENERIC NAME	MODEL	LOCATION	LIFE	DATE INSTAL. MONTH/YEAR	MAINT. MONTH/YR
States Co	1ZIB001	Terminal Block and Junction Box	Type ZWM	CIMT	40 Yrs	07/81	N/A
	B002						
	B003						
	B004						
	2ZIB001						
	B002						
	B003						
	B004						
	B004						
	B005						
	3ZIB001						
	B002						
	AZIB007						
	B034			M S RM			
	BZIB025			CIMT			
	QZIS2B025						
	QZB13G001-B						
	QZB13SV2213A-A/JB			CIMT			
	2213B-B/JB						
	2214A/JB						
	2214B-B/JB						
	NZB32SV0444BA-B/JB			CIMT			
	0445AA-A/JB						
	8047-B/JB						
	NZC22SV0478A-A/JB			M S RM			
	488A-A/JB						
	498A-A/JB						
	QZE12SV3999A-A/JB			CIMT			
	3999B-B/JB						
	NZE21SV3149AA-A/JB			CIMT			
	81498A-A/JB						
	8149CA-A/JB						
	8871-A/JB						
	NZG21SV1003A-A/JB			CIMT			
	33768-B/JB						
	7126-A/JB						

0060733

MANUFACTUREN	PLANT I.D. NUMBER	GENERIC NAME	MODEL	LOCATION	LIFE	DATE INSTAL MONTH/YEAR	MAINT. MONTH/YR
States Co.	QZN1[illegible]V3368AA-A/JB	Terminal Block and Junction Box	Type ZWM	M S RM	40 Yrs	07/81	N/A
	BA-A/JB						
	CA-A/JB						
	3369AA-A/JB						
	BA-A/JB						
	CA-A/JB						
	3370AA-B/JB						
	BA-B/JB						
	CA-B/JB						
	3976A-B/JB						
	B-B/JB						
	C-B/JB						
	QZM12SV3234A-A/JB			M S RM			
	B-B/JB						
	3235A-A/JB						
	B-B/JB						
	QZM23SV3227AA-A/JB			M S RM			
	BA-A/JB						
	CA-A/JB						
	3228AA-A/JB						
	BA-A/JB						
	CA-A/JB						
	QZM25SV3772A-A/JB			M S RM			
	B-A/JB						
	C-A/JB						
	QZP13SV2866B-B/JB			CTMT			
	2867B-B/JB						
	3196-B/JB						
	3197-B/JB						
	QZP15SV3103-A/JB			CTMT			
	3104-A/JB						
	3179A-A/JB						
	B-A/JB						
	C-B/JB						
	3180A-A/JB						
	B-A/JB						
	C-B/JB						
	3181A-A/JB						
	B-A/JB						

0000734

MANUFACTURER	PLANT I.D. NUMBER	GENERIC NAME	MODEL	LOCATION	LIFE	DATE INSTAL MONTH/YEAR	MAINT. MONTH/YR
States	Q2P15SV3181C-A/JB 3765-A/JB 3766-A/JB Q2P17SV3184-B/JB 3443-A/JB	Terminal Block and Junction Box	Type ZWM	M S RM CTMT	40 Yrs	07/81	N/A
Victoreen	Q2D21RE0027A-A 0027B-B	Rad. Det.	877-1	CTMT	40 Yrs	07/81	N/A
Westinghouse	Q2E17G001A G001B	H_2 Recomb. Htr	Type A	CTMT	40 Yrs	07/81	N/A

APPENDIX V

PREVENTIVE MAINTENANCE SPECIFICATIONS

LIST OF EFFECTIVE PAGES

0000717

PAGE NO.	REVISION NO.											
	0	1	2	3	4	5	6	7	8	9	10	11
1	X											
2	X											

Attachment 2
Preventive Maintenance Requirement

0000738

40-Year Life Equipment

Equipment: States terminal blocks; Type ZMW
Limitorque motor operators; SMB-00, -000, -1, -4, -4T
General Electric penetrations; 100 series
Westinghouse hydrogen recombiners; Type A
Joy Manufacturing containment cooler fan motors; Type P
Victoreen radiation detectors; model 877-1.

Requirement: No environmental qualification preventive maintenance activities are required.

Limited Life Equipment

Rosemount RTD's; 176KS and 176KF

Requirement: No environmental qualification preventive maintenance activities are required.

NAMCO Limit Switches; EA-180

Requirement: Clean contacts, lubricate moving parts (lubrication procedure EA-181-10160) and replace the following:

- Top cover gasket; EA-181-10102
- Botton cover gasket; EA-181-10120
- Contact lever kit; EA-181-10130
- Contact block kit; EA-181-10140
- Boot kit; EA-181-10151
- Lever shaft and o-ring assembly kits; EA-181-10170 (for standard switches) or EA-181-10171 (for short travel switches: EA-180-X4302, -X5302, -X6302)

See the attached NAMCO maintenance instructions Tables 1 and 2 of "Environmental Qualification Surveillance" provide the frequency for these maintenance activities.

NAMCO Limit Switches: EA-740

Requirement: Clean contacts, lubricate moving parts (lubrication procedure EA-749-20019) and replace the following:

- Top cover gasket kit; EA-749-20021
- Bottc er gasket kit; EA-749-20026
- Contact ... ier kit; EA-749-20032
- Contact block kit; EA-749-20036
- Boot and retaining ring kit; EA-749-20042

See the attached NAMCO maintenance instructions. Tables 1 and 2 of "Environmental Qualification Surveillance" provides the frequency for these maintenance activities.

ASCO Solenoid Valves: NP8316, NP8320, NP8321, 206-381

Requirement: Replace the coil, all resilient parts and manual operator assembly (optional feature). To order spare part kits, coils and manual operator assemblies, specify the valve catalog number, serial number and voltage. See attached ASCO maintenance instructions. Tables 1 and 2 of "Environmental Qualification Surveillance" provides the frequency for the maintenance activities.

<u>Indeterminate Life Equipment</u>

Equipment: Barton transmitters; models 763 and 764
Foxboro transmitters; models E11GM (MCA) and E13DM
GEMS Delaval transmitters; XM-36495
GEMS Delaval level sensor; XM-54854
GEMS Delaval level switch; LS-36497
Target Rock solenoids; 79A8001.

Requirement: The qualified life and environmental qualification preventive maintenance activities will be determined following the completion of ongoing qualification tests of analogous or similar equipment and subsequent evaluation of test results.