

COMMONWEALTH OF KENTUCKY
BEFORE THE PUBLIC SERVICE COMMISSION

In the Matter of:

ELECTRONIC APPLICATION OF)	
KENTUCKY UTILITIES COMPANY FOR AN)	CASE NO. 2018-00294
ADJUSTMENT OF ITS ELECTRIC RATES)	

RESPONSE OF
KENTUCKY UTILITIES COMPANY
TO
COMMISSION STAFF'S SECOND REQUEST FOR INFORMATION
DATED NOVEMBER 13, 2018

FILED: NOVEMBER 29, 2018

VERIFICATION

COMMONWEALTH OF KENTUCKY)
)
COUNTY OF JEFFERSON)

The undersigned, **Daniel K. Arbough**, being duly sworn, deposes and says that he is Treasurer for Kentucky Utilities Company and Louisville Gas and Electric Company and an employee of LG&E and KU Services Company, and that he has personal knowledge of the matters set forth in the responses for which he is identified as the witness, and the answers contained therein are true and correct to the best of his information, knowledge and belief.


Daniel K. Arbough

Subscribed and sworn to before me, a Notary Public in and before said County and State, this 29th day of November 2018.



Notary Public

My Commission Expires:
Judy Schooler
Notary Public, ID No. 603967
State at Large, Kentucky
Commission Expires 7/11/2022

VERIFICATION

COMMONWEALTH OF KENTUCKY)
)
COUNTY OF JEFFERSON)

The undersigned, **Lonnie E. Bellar**, being duly sworn, deposes and says that he is Chief Operating Officer for Louisville Gas and Electric Company and Kentucky Utilities Company and an employee of LG&E and KU Services Company, and that he has personal knowledge of the matters set forth in the responses for which he is identified as the witness, and the answers contained therein are true and correct to the best of his information, knowledge and belief.



Lonnie E. Bellar

Subscribed and sworn to before me, a Notary Public in and before said County and State, this 29th day of November 2018.



Notary Public

My Commission Expires:
Judy Schooler
Notary Public, ID No. 603967
State at Large, Kentucky
Commission Expires 7/11/2022

VERIFICATION

COMMONWEALTH OF KENTUCKY)
)
COUNTY OF JEFFERSON)

The undersigned, **Robert M. Conroy**, being duly sworn, deposes and says that he is Vice President, State Regulation and Rates, for Kentucky Utilities Company and Louisville Gas and Electric Company and an employee of LG&E and KU Services Company, and that he has personal knowledge of the matters set forth in the responses for which he is identified as the witness, and the answers contained therein are true and correct to the best of his information, knowledge and belief.



Robert M. Conroy

Subscribed and sworn to before me, a Notary Public in and before said County and State, this 29th day of November 2018.



Notary Public

My Commission Expires:
Judy Schooler
Notary Public, ID No. 603967
State at Large, Kentucky
Commission Expires 7/11/2022

VERIFICATION

COMMONWEALTH OF KENTUCKY)
)
COUNTY OF JEFFERSON)

The undersigned, **Christopher M. Garrett**, being duly sworn, deposes and says that he is Controller for Kentucky Utilities Company and Louisville Gas and Electric Company and an employee of LG&E and KU Services Company, and that he has personal knowledge of the matters set forth in the responses for which he is identified as the witness, and the answers contained therein are true and correct to the best of his information, knowledge and belief.



Christopher M. Garrett

Subscribed and sworn to before me, a Notary Public in and before said County and State, this 28th day of November 2018.



Notary Public

My Commission Expires:
Judy Schooler
Notary Public, ID No. 603967
State at Large, Kentucky
Commission Expires 7/11/2022


VERIFICATION

COMMONWEALTH OF KENTUCKY)
)
COUNTY OF JEFFERSON)

The undersigned, **Elizabeth J. McFarland**, being duly sworn, deposes and says that she is Vice President, Customer Services for Louisville Gas and Electric Company and Kentucky Utilities Company and an employee of LG&E and KU Services Company, and that she has personal knowledge of the matters set forth in the responses for which she is identified as the witness, and the answers contained therein are true and correct to the best of her information, knowledge and belief.


Elizabeth J. McFarland

Subscribed and sworn to before me, a Notary Public in and before said County and State, this 29th day of November 2018.


Notary Public

My Commission Expires:
10-16-2020

VERIFICATION

STATE OF TEXAS)
) SS:
COUNTY OF TRAVIS)

The undersigned, **Adrien M. McKenzie**, being duly sworn, deposes and says he is President of FINCAP, Inc., that he has personal knowledge of the matters set forth in the responses for which he is identified as the witness, and the answers contained therein are true and correct to the best of his information, knowledge and belief.

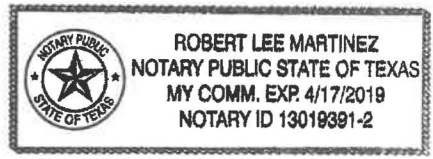

Adrien M. McKenzie

Subscribed and sworn to before me, a Notary Public in and before said County and State, this 16th day of November 2018.

 (SEAL)
Notary Public

My Commission Expires:

04/17/2019



VERIFICATION

COMMONWEALTH OF KENTUCKY)
)
COUNTY OF JEFFERSON)

The undersigned, **Gregory J. Meiman**, being duly sworn, deposes and says that he is Vice President, Human Resources for Kentucky Utilities Company and Louisville Gas and Electric Company and an employee of LG&E and KU Services Company, and that he has personal knowledge of the matters set forth in the responses for which he is identified as the witness, and the answers contained therein are true and correct to the best of his information, knowledge and belief.


Gregory J. Meiman

Subscribed and sworn to before me, a Notary Public in and before said County and State, this 29th day of November 2018.



Notary Public

My Commission Expires:
Judy Schooler
Notary Public, ID No. 603967
State at Large, Kentucky
Commission Expires 7/11/2022

VERIFICATION

COMMONWEALTH OF KENTUCKY)
)
COUNTY OF JEFFERSON)

The undersigned, **William Steven Seelye**, being duly sworn, deposes and states that he is a Principal of The Prime Group, LLC, and that he has personal knowledge of the matters set forth in the responses for which he is identified as the witness, and the answers contained therein are true and correct to the best of his information, knowledge and belief.



William Steven Seelye

Subscribed and sworn to before me, a Notary Public in and before said County and State, this 20th day of November 2018.



Notary Public (SEAL)

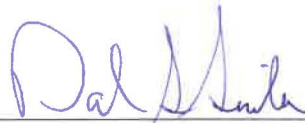
My Commission Expires:
Judy Schooler
Notary Public, ID No. 603967
State at Large, Kentucky

Commission Expires 7/11/2022

VERIFICATION

COMMONWEALTH OF KENTUCKY)
)
COUNTY OF JEFFERSON)

The undersigned, **David S. Sinclair**, being duly sworn, deposes and says that he is Vice President, Energy Supply and Analysis for Kentucky Utilities Company and Louisville Gas and Electric Company and an employee of LG&E and KU Services Company, and that he has personal knowledge of the matters set forth in the responses for which he is identified as the witness, and the answers contained therein are true and correct to the best of his information, knowledge and belief.



David S. Sinclair

Subscribed and sworn to before me, a Notary Public in and before said County and State, this 29th day of November 2018.



Notary Public

My Commission Expires:
Judy Schooler
Notary Public, ID No. 603967
State at Large, Kentucky
Commission Expires 7/11/2022

KENTUCKY UTILITIES COMPANY

**Response to Commission Staff's Second Request for Information
Dated November 13, 2018**

Case No. 2018-00294

Question No. 1

Responding Witness: Robert M. Conroy

- Q-1. Refer to Tab 5 of the application.
- a. Refer to proposed P.S.C. No. 19, Original Sheet No. 10. Under "Availability," it states that "Existing Customers with twelve (12) month-average maximum monthly loads exceeding 50 kW who are receiving service under P.S.C. 13, Fourth Revision of Original Sheet No. 10 as of February 6, 2009, will continue to be served under this rate at their option." Since P.S.C. 13, Fourth Revision of Original Sheet No. 10 has been superseded, state whether this should state, "exceeding 50 kW receiving service under"
 - b. Refer to P.S.C. No. 18, Second Revision of Original Sheet No. 35 and proposed P.S.C. No. 19, Original Sheet Nos. 35 and 35.2. With the removal of the sentence regarding units marked with an asterisk from Sheet No. 35, explain why the High Pressure Sodium Victorian options on proposed P.S.C. No. 19, Original Sheet No. 35.2 are marked with an asterisk.
 - c. Refer to P.S.C. No. 18, Second Revision of Original Sheet No. 35 and proposed P.S.C. No. 19, Original Sheet No. 35. Under "Overhead Service," explain why the following was removed from the tariff: "Company will, upon request, furnish ornamental poles of Company's choosing, together with overhead wiring and all other equipment mentioned for basic overhead service."
 - d. Refer to proposed P.S.C. No. 19, Original Sheet No. 35.2. Explain why five years is a reasonable amount of time to assess the conversion fee to a customer who requests to change from a current functioning non-LED fixture to an LED fixture.
 - e. Refer to P.S.C. No. 18, Third Revision of Original Sheet No. 35.2 and proposed P.S.C. No. 19, Original Sheet No. 35.3. Confirm that the only change to the "Due Date" and "Determination of Energy Consumption" sections is that they were moved from Sheet No. 35.2 to Sheet No. 35.3.
 - f. Refer to P.S.C. No. 18, Original Sheet No. 35.3 and proposed P.S.C. No. 19, Original Sheet No. 35.4. Explain the reasoning for the removal of the following

language from number 6 of the terms and conditions: "that were in service less than twenty years, and requests installation of replacement lighting within 5 years of removal"

- g. Refer to P.S.C. No. 18, Second Revision of Original Sheet No. 36 and proposed P.S.C. No. 19, Original Sheet No. 36. Under "Overhead Service," explain the reasoning for the removal of the following language from the tariff: "Company has, upon request, furnished poles, of Company's choosing, together with overhead wiring and all other equipment mentioned for overhead service."
- h. Refer to proposed P.S.C. No. 19, Original Sheet Nos. 40 through 40.25. The entire rate schedule is marked with the (T) margin notation; however, there are portions that are not changing. Provide revised tariff sheets that reflect margin notations for only the portions that are changing. For text that is not changing but is simply being moved to another page due to text being added above it, it is not necessary to mark those changes with a margin notation.
- i. Refer to proposed P.S.C. No. 19, Original Sheet No. 42. Explain why Rate EVC is being limited to a maximum of ten stations.
- j. Refer to P.S.C. No. 18, Original Sheet Nos. 71.1 and 71.2 and proposed P.S.C. No. 19, Original Sheet Nos. 71.2 and 71.3.
 - (1) Confirm that numbers 7 through 12 of the "General" section, with the exception of number 11, are not new to the tariff.
 - (2) Confirm that the only change to the "Term of Contract" section is that it was moved from Sheet No. 71.2 to Sheet No. 71.3.
- k. Refer to proposed P.S.C. No. 19, Original Sheet Nos. 72.1 through 72.3. The text on these pages are all marked as new; however, there are portions that are not changing from the current tariff. Provide revised tariff sheets that reflect margin notations for only the portions that are changing.
- l. Refer to P.S.C. No. 18, Original Sheet Nos. 90 and 90.1 and proposed P.S.C. No. 19, Original Sheet No. 90 and 90.1.
 - (1) Under "Term of Contract," explain what would make a franchise agreement, ordinance or other governmental enactment invalid, ineffective, or inapplicable.
 - (2) Explain the addition of the Section entitled "Sections Applicable Only to Franchise Fee Agreements Dated Before September 21, 2011."

- (3) Confirm that the only changes to the "Definitions" and "Rate" sections are that they were moved from Sheet No. 90 to Sheet No. 90.1.
- m. Refer to proposed P.S.C. No. 19, Original Sheet No. 102 and 102.1.
- (1) Under number 4 of the "General" section, indicate whether KU would be willing to remove the following language since it was removed from 807 KAR 5:006 effective January 4, 2013: "except that no refund or credit will be made if Customer's bill is delinquent on the anniversary date of the deposit."
- (2) Under number 5 of the "Residential" section, explain how a customer would become a new or greater credit risk.
- (3) Confirm that KU is not charging an additional deposit to residential customers whose payment record is satisfactory unless their classification of service changes or the customer requests that their deposit be recalculated pursuant to 807 KAR 5:006, Section 8(1)(d)3.
- n. Refer to proposed P.S.C. No. 19, Original Sheet Nos. 106.1 and 106.2. Under b. and c. of "5. Other Line Extensions" and b. of "6. Overhead Line Extensions for Subdivisions." Explain if these mean that no refunds will be given until the 10-year refund period ends. If so, explain why that is more reasonable than giving refunds each year as set forth in 807 KAR 5:041, Section 11(2)(b) and 807 KAR 5:041 , Section 11(3).
- o. Refer to P.S.C. No. 18, Original Sheet No. 106.3 and proposed P.S.C. No. 19, Original Sheet No. 106.3.
- (1) Under "Underground Line Extensions, General," explain why the following was removed from the tariff: "In consideration of Customer's underground service, Company shall credit any amounts due under the contract for each service at the rate of \$50.00 or Company's average estimated installed cost for an overhead service whichever is greater."
- (2) Explain the reasoning for the revision to "b. Individual Premises."

A-1.

- a. The Company will modify the language from "exceeding 50 kW who are receiving service under" to "exceeding 50 kW who *were* receiving service under". This makes it clear the grandfathering provision remains in place.
- b. The asterisks are to signify that Victorian is the only non-LED lights offered within the LS tariff. See the testimony of Mr. Conroy at page 23. The Company

can either remove the asterisks or add a note that the asterisks represents no-LED lights.

- c. KU ceased the limited practice of installing overhead services to ornamental poles approximately three years ago; and thus, this provision was removed as it is no longer necessary.
- d. See the response to Question No. 14, part a.
- e. Company confirms the referenced item is neither new nor a change to the tariff; rather it is only a movement of the text.
- f. Regardless of the age of fixture, the cost of removal of the fixture is not factored into the monthly Lighting rate. This provision places those costs on the cost causer requesting removal of those facilities. In the event the light is converted to an LED, the cost of removing the old fixture is incidental because a crew is already onsite to install the new LED, and will not be charged to the customer.
- g. See the response to Question No. 1, part c.
- h. Attached are revised tariff sheets 40 through 40.25 depicting the correct margin notations for all proposed modifications.
- i. The rate is limited to ten as specified in and consistent with the original filing and approval in Case No. 2015-00355.
- j.
 - (1) Company confirms the referenced item is neither new nor a change to the tariff; rather it is only a movement of the text.
 - (2) Company confirms the referenced item is neither new nor a change to the tariff; rather it is only a movement of the text.
- k. Attached are revised tariff sheets 72.1, 72.2, and 72.3 depicting the correct margin notations for all proposed modifications.
- l.
 - (1) Anything that would make the ordinance, franchise agreement, or governmental enactment void or unenforceable, e.g., a judicial determination of its unlawfulness.
 - (2) The addition of the heading entitled “Sections Applicable Only to Franchise Fee Agreements Dated Before September 21, 2011” is to clearly indicate that the “Definitions” and “Rate” sections are still applicable to certain

existing KU franchise agreements but are no longer used for new and renewing franchise agreements.

(3) Confirmed.

m.

(1) Company confirms it is willing to remove this language from the tariff.

(2) A customer could have satisfactory credit when first applying for service, and no deposit would be assessed. Thereafter, a customer could be disconnected for non-payment, have payments returned for insufficient funds, or other factors which might increase the customer's risk profile. In those cases, a deposit could be assessed.

(3) Company confirms.

n. Refunds will be provided to the customer who made the original deposit during the year when another customer connects to the requested extension. These refunds will be capped to the original deposited amount and will only be provided for the first 10 years.

o.

(1) This was a legacy practice that the Company no longer monitors or implements as the criteria for this rarely exists.

(2) The revisions to "b. Individual Premises" clarifies the definition of "all associated facilities" that the customer may be required to furnish or pay in advance.

Kentucky Utilities Company

P.S.C. Electric No. 19, Original Sheet No. 40

Standard Rate

PSA

Pole and Structure Attachment Charges

APPLICABLE

In all territory served.

AVAILABILITY

Available to the facilities of Governmental units, Educational Institutions, Cable Television System Operators and Telecommunications Carriers as provided below except: (1) facilities of local exchange carriers ("ILECs") with joint use agreements with the Company; (2) facilities subject to a fiber exchange agreement; and (3) Macro Cell Facilities. Nothing in this tariff expands the right to attach to the Company's structures beyond the rights otherwise conveyed by law.

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APPLICABILITY OF SCHEDULE TO CURRENT LICENSE AGREEMENTS

Any Telecommunications Carrier that executed a license agreement permitting attachments to Company's Structures prior to the July 1, 2017 shall be subject to the rates, terms, and conditions of this Pole and Structure Attachment Charges Schedule ("this Schedule") upon expiration or termination of its license agreement. Any Governmental Unit or Educational Institution that executed a license agreement permitting attachments to Company's Structures prior to May 1, 2019 shall be subject to the rates, terms and conditions of this Schedule upon expiration or termination of its license agreement, unless such license agreement provides otherwise.

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DEFINITIONS

"Affiliate" means, with respect to an entity, any entity controlling, controlled by, or under common control with such entity.

"Approved Contractor" means a contractor approved by Company for a particular purpose.

"Attachment" means the Cable or Wireless Facilities and all associated appliances including without limitation any overlashed cable, guying, small splice panels and vertical overhead to underground risers but shall not include power supplies, equipment cabinets, meter bases, and other equipment that impedes accessibility or otherwise conflicts with Company's electric design and construction standards.

"Attachment Customer" means a customer that attaches its facilities to one or more of the Company's Structures and has executed an Attachment Customer Agreement with the Company.

"Contract for Attachment to Company Structures" or "Contract" means the written agreement provided by Company and executed between Attachment Customer and Company incorporating the terms and conditions of this Schedule.

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DATE OF ISSUE: September 28, 2018

DATE EFFECTIVE: With Service Rendered
On and After November 1, 2018

ISSUED BY: /s/ Robert M. Conroy, Vice President
State Regulation and Rates
Lexington, Kentucky

**Issued by Authority of an Order of the
Public Service Commission in Case No.
2018-00294 dated _____**

Kentucky Utilities Company

P.S.C. Electric No. 19, Original Sheet No. 40.1

Standard Rate

PSA

Pole and Structure Attachment Charges

“Business Day” means a calendar day unless it is a Saturday, a Sunday or a legal holiday.

“Cable” means the fiber optic or coaxial cable, or any other type of cable, as well as any messenger wire or support strand.

“Cable television system operator” means a Person who operates a system that transmits television signals, for distribution to subscribers of its services for a fee, by means of wires or cables connecting its distribution facilities with its subscriber’s television receiver or other equipment connecting to the subscriber’s television receiver, and not by transmission of television signals through the air, and subscription to the system’s service is available to the public.

“Communication Space” means the area below the Communication Worker Safety Zone to the limit of allowable NESC clearance, department of transportation or other governmental requirements, and Company’s internal construction standards on poles.

“Communication Worker Safety Zone” means the space between the facilities located in the Supply Space and facilities located in the Communications Space on poles.

“Contractor” means any Person employed or engaged by Attachment Customer to perform work or render services upon or in the immediate vicinity of Company’s Structures or associated facilities other than Attachment Customer and Attachment Customer’s employees.

“Credit Rating” means, with respect to any entity, the rating then assigned to such entity’s unsecured, senior long-term debt obligations (not supported by third party credit enhancements) by Standard and Poor’s Rating Group or its successor (“S&P”), or Moody’s Investor Services, Inc. or its successor (“Moody’s”), or if such entity does not have a rating for its senior unsecured long-term debt, then the rating then assigned to such entity as its “corporate credit rating” assigned by S&P, or the “long-term issuer rating” assigned by Moody’s. N
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“Distribution Pole” means a utility pole supporting electric supply facilities, all of which operate at less than 69 kV, but does not include a non-wood street light pole or a wood street light pole that is not located in a public right-of-way.

“Duct” means a pipe, tube, conduit, manhole, or other structure made for supporting and protecting electric and/or communications wires or cables and in which wires, cables and conduits may be placed for support or protection but excluding (1) any pipe now or previously used for the transmission or distribution of natural gas, (2) any duct system supporting electric supply lines operated at 69kV or greater, and (3) any vault.

“Educational Institution” means a public or private, non-profit university, college or community college N
N

DATE OF ISSUE: September 28, 2018

DATE EFFECTIVE: With Service Rendered
On and After November 1, 2018

ISSUED BY: /s/ Robert M. Conroy, Vice President
State Regulation and Rates
Lexington, Kentucky

**Issued by Authority of an Order of the
Public Service Commission in Case No.
2018-00294 dated _____**

Kentucky Utilities Company

P.S.C. Electric No. 19, Original Sheet No. 40.2

Standard Rate

PSA

Pole and Structure Attachment Charges

“Governmental Unit” means an agency or department of the Federal Government, a department, agency, or other unit of the Commonwealth of Kentucky, a county or city, special district, or other political subdivision of the Commonwealth of Kentucky. N
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“High Volume Application” means an application or applications for Attachments to more than 300 poles or to place Cable or conduit through more than 10 manholes submitted to Company within a 30-day period.

“Letter(s) of Credit means one or more irrevocable, transferable standby letters of credit issued by a U.S. commercial bank or a foreign bank with a U.S. branch in a form acceptable to the Company. Costs of a Letter of Credit shall be borne by the applicant for such Letter of Credit. N
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“Macro Cell Facility” means a wireless communications system site that is typically high-power and high-site, and capable of covering a large physical area, as distinguished from a distributed antenna system (DAS), small cell, or WiFi attachment, by way of example. Macro Cell Facilities are typically, but not exclusively, co-located on Transmission Poles and communications monopoles and towers.

“Make Ready Survey” means a survey, in the form prescribed by the Company from time to time, prepared by the Company or an Approved Contractor describing in reasonable detail the make-ready engineering requirements, and such other information as the Company may require, for the installation of an Attachment or group of Attachments on a Structure or group of Structures.

“NEC” means the National Electrical Code.

“NESC” means the National Electrical Safety Code.

“Performance Assurance” means collateral in the form of cash, surety bond, Letter(s) of Credit, or other security acceptable to the Company. N
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“Person” is defined by KRS 278.010(2).

“Service Drop” means a Cable, attached to a pole with a J-hook or other similar hardware that connects the trunk line to an end user’s premises.

“Structure” means any Company pole, conduit, duct, or other facility normally used by the Company to support or protect its electric conductors but shall not include (1) any Transmission Pole other than Transmission Poles to which the Company has attached its own electric supply lines operated at less than 69kV; (2) any street light pole that is not a wood pole located in a public right-of-way; or (3) any pole that the Company has leased to a third party.

DATE OF ISSUE: September 28, 2018

DATE EFFECTIVE: With Service Rendered
On and After November 1, 2018

ISSUED BY: /s/ Robert M. Conroy, Vice President
State Regulation and Rates
Lexington, Kentucky

**Issued by Authority of an Order of the
Public Service Commission in Case No.
2018-00294 dated _____**

Kentucky Utilities Company

P.S.C. Electric No. 19, Original Sheet No. 40.3

Standard Rate

**PSA
Pole and Structure Attachment Charges**

Supply Space” means the space above the Communications Worker Safety Zone used for the installation of electric supply lines.

“Telecommunications carrier” means a Person who operates a system that (1) transmits by wire or wireless means, between or among points specified by the user, information of the user’s choosing without change in the form or content of the information as sent or received, and (2) provides such transmission services for a fee directly to or for the public, or to such classes of users as to be effectively available directly to or for the public.

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“Transmission Pole” means any utility pole or tower supporting electric supply facilities designed to operate at 69 kV or greater.

“Wireless Facility” means, without limitation, antennas, risers, transmitters, receivers, and all other associated equipment used in connection with Attachment Customer’s provision of wireless communications services and the transmission and reception of radiofrequency signals, but shall not include power supplies, equipment cabinets, meter bases, and other equipment that impedes accessibility or that conflicts with the Company’s electric design and construction standards.

ATTACHMENT CHARGES

\$ 7.25 per year for each wireline pole attachment.

\$ 0.81 per year for each linear foot of duct.

\$36.25 per year for each Wireless Facility located on the top of a Company pole.

The attachment charge for any other Wireless Facility shall be agreed upon by Attachment Customer and the Company and set forth in a special contract to be filed with the Commission.

BILLING

All attachment charges for use of Structures will be billed semi-annually based upon the type and number of Attachment Customer’s Attachments reflected in Company’s records on December 1 and June 1. A bill issued under this Schedule shall be due upon its issuance. Any bill not paid in full within sixty (60) days of its issuance shall be assessed a late payment fee of three (3) percent on the bill’s current charges. If Attachment Customer fails to pay all charges and fees billed within six (6) months of the bill’s issuance, Company may remove any or all of Attachment Customer’s Attachments. In lieu of or in addition to removal of Attachments, Company may exercise any other remedies available under law to address Attachment Customer’s failure to make timely payment of any charges assessed under this Schedule.

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DATE OF ISSUE: September 28, 2018

DATE EFFECTIVE: With Service Rendered
On and After November 1, 2018

ISSUED BY: /s/ Robert M. Conroy, Vice President
State Regulation and Rates
Lexington, Kentucky

Issued by Authority of an Order of the
Public Service Commission in Case No.
2018-00294 dated _____

Kentucky Utilities Company

P.S.C. Electric No. 19, Original Sheet No. 40.4

Standard Rate

PSA

Pole and Structure Attachment Charges

TERM OF SERVICE

An executed contract shall be for a term of ten (10) years and shall thereafter automatically renew for successive one (1) year periods unless Company or Attachment Customer provides the other with written notice of termination at least sixty (60) days prior to the renewal date. T
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TERMS AND CONDITIONS OF ATTACHMENT

Attachments to Company's Structures that do not interfere with the Company's electric service requirements and the Attachments of existing Customers and joint users shall be permitted in accordance with the terms and conditions of this Schedule. The Terms and Conditions set forth in Section 5 of the Company's Electric Service Tariff shall also be applicable to the extent they are not in conflict with or inconsistent with this Schedule's provisions. T

1. CONTRACT FOR ATTACHMENT TO COMPANY STRUCTURES T

No Attachments shall be made to Company's Structures until Attachment Customer has executed a Contract for Attachment to Company Structures, in a form substantially similar to that which is included at the end of this Schedule.. The Contract shall incorporate the terms and conditions set forth in this Schedule. T
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2. NO PROPERTY RIGHTS

No use, however extended, of Company Structures shall create or vest in Attachment Customer any right, title or interest in the Structures. A Contract confers only a non-exclusive right to affix and install Attachments to and on Company's Structures. Company is not required to maintain any Structure for a period longer than demanded by its electric service requirements. T
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3. USE OF COMPANY'S FACILITIES BY OTHERS T

Nothing in this Schedule shall affect the rights or privileges previously conferred by Company to others. The rights granted under this Schedule and the Contract shall at all times be subject to such previously conferred privileges and shall not affect the rights or privileges that may be conferred by Company in the future to others. T
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4. TRANSFER OF RIGHTS T

Except as provided in this Schedule, Attachment Customer's rights under the Contract are non-delegable, non-transferable and non-assignable. Any delegation, transfer or assignment of any interest created by the Contract or this Schedule without Company's prior written consent is voidable at Company's option. Company shall not unreasonably withhold its consent to Attachment Customer's delegation, transfer or assignment of rights under the Contract upon notice of the delegation, transfer or assignment and if adequate evidence is provided of Transferee's compliance with Term 23 (Insurance) and Term 24 (Performance Assurance). T
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DATE OF ISSUE: September 28, 2018

DATE EFFECTIVE: With Service Rendered
On and After November 1, 2018

ISSUED BY: /s/ Robert M. Conroy, Vice President
State Regulation and Rates
Lexington, Kentucky

Issued by Authority of an Order of the
Public Service Commission in Case No.
2018-00294 dated _____

Kentucky Utilities Company

P.S.C. Electric No. 19, Original Sheet No. 40.5

Standard Rate

**PSA
Pole and Structure Attachment Charges**

Attachment Customer shall not permit a third party to overlash or utilize any Attachment without Company's prior written consent. Company may condition its consent upon such third party's compliance with all provisions of the Contract, this Schedule, and such other terms as Company may reasonably require. T

5. COMPANY'S ABANDONMENT OF STRUCTURE

Company shall provide an Attachment Customer with a minimum of 180 days' notice before abandoning a Structure to which Attachment Customer has made an Attachment unless state or local law, easement provisions, or contractual obligations to a third party requires the Structure to be abandoned in a shorter period, in which case Company shall provide as much notice as is reasonably practicable. T

6. FRANCHISES AND EASEMENTS

Attachment Customer shall secure at its own expense any right-of-way, easement, license, franchise or permit from any Person that may be required for the construction or maintenance of Attachments by or for Attachment Customer. If requested by Company, Attachment Customer shall submit to Company satisfactory evidence of such right-of-way, easement, license, franchise or permit. Company's approval of Attachments shall not constitute any representation or warranty regarding Attachment Customer's right to occupy or use any public or private right-of-way.

Upon an Attachment Customer's written request, Company may provide to Attachment Customer such non-private information as Company may have regarding the name of the record landowners from which Company obtained easements for Structures. Such information is provided without representation or warranty as to its accuracy or completeness. Company has no obligation to correct or supplement any information so provided. If Company provides assistance to Attachment Customer in obtaining easements or other property rights, Attachment Customer shall reimburse Company's cost of providing such assistance within thirty (30) days of its receipt of an invoice from Company. T
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Attachment Customer shall indemnify and save harmless Company from all claims, including the expenses incurred by Company to defend itself against such claims, resulting from or arising out of the failure of Attachment Customer to secure any right of way, easement, license, franchise or permit.

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Kentucky Utilities Company

P.S.C. Electric No. 19, Original Sheet No. 40.6

Standard Rate

PSA

Pole and Structure Attachment Charges

7. ATTACHMENT APPLICATIONS AND PERMITS

- a. Unless waived by Company, Attachment Customer shall make written application, in the form and manner prescribed by Company for permission to install Attachments on or in any Structure. Each application shall include: (1) in the case of poles, the owner, number and location of all Structures for which license to attach is sought and the amount of space required thereon; (2) in the case of Ducts, the number of linear feet of Duct space and the specific location of each such Duct to be utilized, the amount of requested space, the nature of any changes or inner Duct or Ducts proposed to be installed and any other construction that might be required by the proposed Attachments; (3) the physical attributes of all proposed Attachments; (4) the proposed start date for installation of the Attachments; (5) any issues then known to Attachment Customer regarding space, engineering, access or other matters that might require resolution before installation of Attachments; and (6) proposed make ready drawings. Company may request additional information be included with the application at its reasonable discretion. Company may perform a pole loading study or request Attachment Customer to submit such study based upon a visual inspection or other information held by Company. If Company conducts a visual inspection of the pole to ascertain the need for a pole loading analysis, Company may assess the cost of such inspection to the Attachment Customer. If Company determines a pole loading study is required, no application shall be considered completed until submission of such study. Attachment Customer may perform the pole loading study or request Company to perform the study with cost to be borne by Attachment Customer. Nothing contained herein shall preclude Attachment Customer from submitting a pole loading study with its application without Company performing a visual inspection or otherwise requesting such study to expedite Company's review. T
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- b. Attachment Customer shall be responsible for all costs associated with the application, a Make Ready Survey, engineering analysis, and Company's review of the application. Attachment Customer shall reimburse Company upon presentation of an invoice for such costs. If Attachment Customer does not request Attachments to a Transmission Pole or Duct, Company shall complete a Make Ready Survey within sixty (60) days of its receipt of Attachment Customer's completed application. If Attachment Customer's application requests Attachments to a Transmission Pole or Duct, Attachment Customer and Company shall mutually agree to a time period for completion of a Make-Ready Survey. T
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Pole and Structure Attachment Charges

- c. Upon completion of the Make Ready Survey, Company shall notify Attachment Customer in writing whether its application for use of Company's Structures has been granted, of any necessary changes to the proposed construction drawings, and the conditions, if any, imposed on the installation or use of Attachments. Company reserves the right to deny access to any Structure based upon lack of capacity, safety, reliability or engineering standards. Company may deny access to Transmission Poles in its discretion for any reason; provided that such denials shall be determined in a non-discriminatory manner. The following types of Transmission Poles that do not support electric supply lines operated at less than 69kV are not available for Attachments under this Schedule: (1) Transmission Poles that do not support electric supply lines operated at less than 69kV; (2) any Transmission Poles that support electric supply lines operated at 138kV or above. T
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- d. Within fifteen (15) days of notifying Attachment Customer of the approval of its application, Company shall provide Attachment Customer a written statement of the costs of any necessary Company make-ready work, including but not limited to rearrangement of electric supply facilities and pole change out. Attachment Customer shall indicate its approval of this statement by submitting payment of the statement amount within fifteen (15) days of receipt. If facilities of a third party are required to be rearranged or transferred, Attachment Customer shall coordinate with the third party for such rearrangement or transfer and shall pay the costs related thereto. If Attachment Customer's application requests attachments to a Transmission Pole or Duct, Attachment Customer and Company shall mutually agree to a time period for preparation of a written statement of the costs of any necessary Company make-ready work. T
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- e. If an existing Structure is replaced or a new Structure is erected solely to provide adequate capacity for Attachment Customer's proposed Attachments, Attachment Customer shall pay a sum equal to the actual material and labor cost of the new Structure, as well as any replaced appurtenances, plus the cost of removal of the existing Structure minus its salvage value, within thirty (30) days of receipt of an invoice. The new Structure shall be Company's property regardless of any Attachment Customer payments toward its cost. Attachment Customer shall acquire no right, title or interest in or to such Structure. T

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Kentucky Utilities Company

P.S.C. Electric No. 19, Original Sheet No. 40.8

Standard Rate

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Pole and Structure Attachment Charges

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| f. If Company is unable to perform the Make Ready Survey and engineering analysis within the time period established under Section 7b, Company shall advise Attachment Customer and promptly meet with Attachment Customer to develop a mutually agreeable plan of performance. | T |
| g. If Company fails to perform the make-ready work within sixty (60) days of receipt of Attachment Customer's payment of the make-ready costs, Attachment Customer may perform such work at its expense using an Approved Contractor, except that Attachment Customer may not perform such work with respect to Transmission Poles or Ducts.. The Approved Contractor shall provide notice to Company at least one week prior to performing any make-ready. During the performance of any make-ready by Approved Contractors, an inspector designated by Company shall accompany the Approved Contractor(s). The inspector, in his or her sole discretion, may direct that work be performed in a manner other than as approved in an application, based on the then-existing circumstances in the field. The cost of such inspector(s) shall be reimbursed by Attachment Customer within 30 days of receipt of an invoice from Company. Company shall refund any unexpended make-ready fees within 30 days of notice that Attachment Customer has performed the work | T

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| h. If Attachment Customer submits to Company within a thirty (30) day period an application or applications for Attachments to more than 300 poles or to place Cable or conduit through more than ten (10) manholes, such application or applications shall be considered a High Volume Application. The provisions set forth in Sections 7b through 7g that relate to time period and cost-reimbursement of the Company's performance of application review, engineering analysis, and a Make Ready Survey, and the performance of make-ready work, shall not apply to High Volume Applications. Company and Attachment Customer submitting a High Volume Application shall develop a mutually agreeable plan of performance and cost reimbursement for Company's performance of application review, engineering analysis, and a Make Ready Survey, and the performance of make ready work, shall set this plan to writing and shall file it with the Commission as a special contract. | T

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Kentucky Utilities Company

P.S.C. Electric No. 19, Original Sheet No. 40.9

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Pole and Structure Attachment Charges

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| <p>i. No written application to Company to affix and attach a Service Drop to Company's poles is required but Attachment Customer shall provide notice to Company within sixty (60) days of attachment of such Service Drop. This notice shall include the Service Drop location address (or a description of the location if the address is not available), the date of the attachment, the pole number of the pole to which the service drop is affixed or attached, and a statement as to whether the Service Drop constitutes a new attachment to Company's pole for billing purposes. Any Service Drop affixed to a pole more than six (6) inches above or below a through-bolt shall be considered a separate Attachment for billing purposes. On drop or lift poles only, all Service Drops affixed within one foot of usable space shall be considered a single Attachment for billing purposes. Company may conduct an inspection of any Service Drop Attachments, and Attachment Customer shall reimburse Company within 30 days of presentation of an invoice for such inspections. The provisions of this Pole Structure Attachment Schedule shall not apply to an ILEC service drop if the ILEC has a joint use agreement with the Company and the service drop is located in the area covered by the joint use agreement.</p> | <p>T
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| 8. CONSTRUCTION AND MAINTENANCE REQUIREMENTS AND SPECIFICATIONS | |
| <p>a. Attachment Customer shall not construct or install any Attachments until: (1) Company has approved in writing the design, construction, and installation practices for Attachment Customer's Attachments. (2) all Company make-ready work, if any, has been completed (and, if such make-ready work has been performed by an Approved Contractor pursuant to Section 7g above, inspected by Company); and (3) any necessary third party rearrangements or transfers have been completed. Any Attachment that fails to comply with this provision shall be deemed an Unauthorized Attachment for purposes of Section 19 of this Schedule</p> | <p>T

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| <p>b. All Attachments shall be constructed and installed in a manner reasonably satisfactory to Company and so as not to interfere with Company's present or future use of its Structures. Attachments in Ducts shall not include any splice enclosures or excess cable. Attachment Customer shall maintain, operate and construct all Attachments in such manner as to ensure Company's full and free access to all Company facilities. All Attachments shall conform to Company's electric design and construction standards and applicable requirements of the NESC, NEC, and all other applicable codes and laws. In the event of a conflict, the more stringent standard shall apply.</p> | <p>T</p> |

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P.S.C. Electric No. 19, Original Sheet No. 40.10

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Pole and Structure Attachment Charges

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| <p>c. Attachment Customer shall identify each of its Attachments with a tag, approved in advance by Company, that includes Attachment Customer's name, 24-hour contact telephone number, and such other information as Company may require. All Cable placed by Attachment Customer within a Company-owned or controlled Duct shall be enclosed within Attachment Customer furnished inner-duct and shall be clearly marked and identified as belonging to Attachment Customer at all access points. Service drops do not need to be tagged. Attachment Customer shall tag an Attachment at the time of construction. Any untagged Attachment existing as of the date of execution of the Contract or the effective date of this Schedule, whichever is earlier, shall be tagged by Attachment Customer when Attachment Customer or its agents perform work on the attachment. . If the Company is required to relocate or remove an Attachment or otherwise contact the owner of an Attachment to effect repairs and the Attachment is untagged and cannot be readily identified, any expense incurred by Company to identify the Attachment owner shall be borne by the Attachment Customer. Further, the Company shall be considered to have provided notice to the owner of an untagged Attachment required under Section 16 of this Schedule upon inspecting the Attachment and determining that it is untagged.</p> | <p>T</p>

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| <p>d. In the design, installation and maintenance of its Attachments, Attachment Customer shall comply with all Company standards and all federal, state and local government laws, rules, regulations, ordinances, or other lawful directives applicable to the work of constructing and installing the Attachments. All work shall be performed in accordance with the applicable standards of the NESC and the NEC, including amendments thereto adopted. Attachment Customer shall take all necessary precautions, by the installation of protective equipment or other means, to protect all Persons and property of all kinds against injury or damage caused by or occurring by reason of the construction, installation or existence of Attachments.</p> | |
| <p>e. Attachment Customer shall immediately report to Company (1) any damage caused to property of Company or others when installing or maintaining Attachments, (2) any Attachment Customer's failure to meet the requirements set forth in this Schedule for assuring the safety of Persons and property and compliance with laws and regulations of public authorities and standard-setting bodies, and (3) any unsafe condition relating to Company's Structures identified by Attachment Customer.</p> | |
| <p>f. Attachment Customer shall complete installation of its Attachments within sixty (60) days of the later of approval of the application for such Attachments or, if make-ready work is required under such approval, completion of make-ready work, and shall notify Company in writing upon its completion. If Attachment Customer fails to complete the installation within this time period, Company may revoke its permit for the Attachment. Prior to revoking the permit for the Attachment, Company shall provide written notice of the revocation to Attachment Customer. Company may conduct a post-construction inspection of such Attachments. Attachment Customer shall reimburse Company within thirty (30) days of presentation of an invoice for such inspections.</p> | <p>T</p>

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P.S.C. Electric No. 19, Original Sheet No. 40.11

Standard Rate

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Pole and Structure Attachment Charges

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| g. Attachment Customer may use qualified contractors of its own choice to perform work below the Communication Worker Safety Zone. For any work in or above the Communication Worker Safety Zone that Company allows Attachment Customer to perform, Attachment Customer shall use an Approved Contractor who may, at Company's discretion, be required to be accompanied by a Company-designated inspector. For any work in Company's Ducts, Attachment Customer shall use an Approved Contractor, who must be accompanied by a Company-designated inspector. Company shall schedule a Company-designated inspector to accompany an Approved Contractor within fifteen (15) days of its receipt of such request for such inspector. Attachment Customer shall reimburse Company for the actual cost associated with providing inspection services within 30 days of receipt of an invoice. | T

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| h. Company may also monitor Attachment Customer's construction and installation of Attachments below the Communication Worker Safety Zone. If the need for a monitor is caused by Attachment Customer's failure to comply with the terms of this Schedule, the Contract, or any applicable law or regulation, Attachment Customer shall reimburse Company for the actual cost of any such monitoring within thirty (30) days of receipt of an invoice for such cost. For locations where Attachment Customer's construction and installation are within Company underground facilities, Attachment Customer shall reimburse Company for the actual cost associated with providing inspection services within thirty (30) days of receipt of an invoice. | T
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| i. Attachment Customer shall comply with all applicable federal, state, and local laws, rules and regulations with respect to environmental practices undertaken pursuant to the construction, installation, operation and maintenance of its Attachments. Attachment Customer shall not bring, store or utilize any hazardous materials on any Company site without Company's prior express written consent. To the extent reasonably practicable, Attachment Customer shall restore any property altered pursuant to this Schedule or the Contract to its condition existing immediately prior to the alteration. Company has no obligation to correct or restore any property altered by Attachment Customer and bears no responsibility for Attachment Customer's compliance with applicable environmental regulations. | T
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| j. If Attachment Customer fails to install any Attachment in accordance with the standards and terms set forth in this Schedule and Company provides written notice to Attachment Customer of such failure, Attachment Customer, at its own expense, shall make necessary adjustments within thirty (30) days of receipt of such notice. Subject to Section 15 of this Schedule, if Attachment Customer fails to make such adjustments within such time period, Company may make the repairs or adjustments, and Attachment Customer shall pay Company for the actual cost thereof plus a penalty of 50% of actual costs within thirty (30) days of receipt of an invoice. | T

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P.S.C. Electric No. 19, Original Sheet No. 40.12

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Pole and Structure Attachment Charges

- k. Attachment Customer is responsible for any damage, fines or penalties resulting from any noncompliance with the construction and maintenance requirements and specifications set forth in this Section 8, except when Attachment Customer demonstrates that noncompliance is due to the actions of the Company or another Attachment Customer. Company undertakes no duty to require any specific action by Attachment Customer and assumes no responsibility by requiring such compliance or by requiring Attachment Customer to meet any specifications or to make any corrections, modifications, additions or deletions to any work or planned work by Attachment Customer.

- l. Within fifteen (15) days of completion of the installation of the Attachment, Attachment Customer shall furnish Company with complete "as-built" drawings in a computer generated electronic format (or such other format as is agreeable to Company). Hand drawings shall not be submitted. T

9. ADDITIONAL REQUIREMENTS FOR WIRELESS FACILITIES

- a. Wireless Facilities Attachments may be attached to Distribution Poles only.

- b. Company may require Attachment Customer to furnish with any written application for permission to install a Wireless Facilities Attachment a mock-up of the proposed Attachment.

- c. Attachment Customer is solely responsible for ensuring that the radiofrequency ("RF") radiation emitted by its Wireless Facilities, alone and/or in combination with any and all sources of RF radiation in the vicinity, is within the limits permitted under all applicable governmental and industry standard safety codes for general population/uncontrolled exposure. Attachment Customer shall install appropriate signage on the poles to which Wireless Facilities have been attached, to warn line workers or the general public of the presence of RF radiation and the need for precautionary measures. Attachment Customer shall periodically inspect the signage and replace the signage if necessary to ensure that the signage, including text and warning symbols, remains clearly visible.

- d. Each Wireless Facility installation shall include a switch that operates to disconnect and de-energize the antenna. In non-emergency circumstances, Company employees or contractors will make reasonable efforts to contact Attachment Customer at a telephone number that Attachment Customer has marked on the Wireless Facility installation to request a temporary power shut-down. Company personnel or those of other entities working on the pole will operate the power disconnect switch to ensure that the antenna is not energized while work on the pole is in progress. In emergency circumstances, Company personnel and those of other entities working on Company poles may accomplish the power-down by operation of the power disconnect switch without advance notice to Attachment Customer. T
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P.S.C. Electric No. 19, Original Sheet No. 40.13

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Pole and Structure Attachment Charges

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| e. Attachment Customer is solely responsible for ensuring compliance with all Federal Communication Commission antenna registration requirements, Federal Aviation Administration air hazard requirements, or similar requirements with respect to the location of Attachment Customer's Wireless Facilities on Company's poles. | |
| f. Attachment Customer shall not operate its Wireless Facility in a way that causes interference with Company-owned wireless facilities. Attachment Customer shall, after receiving notice from Company of such interference, immediately cease operating its Wireless Facility until it can be operated without causing such interference | N
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| g. All power supplies, equipment cabinets, meter bases and other equipment associated with the Wireless Facilities that are large enough to impede accessibility shall be installed off-pole, consistent with the applicable standards of the NESC, Company standards, and all applicable laws, rules, regulations, ordinances, and other applicable governmental directives. | T |
| h. Attachment Customer shall not perform any construction, including but not limited to the initial installation of its Wireless Facilities or any maintenance thereof, above the Communications Space without receiving prior approval from Company as to the design, installation, and construction practices, which approval Company shall not unreasonably withhold. | N
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10. OVERLASHING OF CABLE

An Attachment Customer may make an initial overlash of an existing attachment if the overlash is not greater than one-half inch in diameter without any advance notice or application to the Company. No application or advance notice is required for the replacement of an existing cable with a cable that is no greater than one-half inch in diameter. With all other overlashing, Attachment Customer shall provide Company with advance notice to permit Company to visually inspect its Structures to determine the need for a pole loading analysis. For projects involving more than ten (10) spans, the Attachment Customer must provide at least fifteen (15) business days' advance notice. For projects involving ten (10) spans or less, Attachment Customer shall provide at least seven (7) business days' advance notice. Notwithstanding the foregoing, no bundle of Attachment Customer's Cable shall exceed two inches in diameter without Company's express written approval.

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Pole and Structure Attachment Charges

11. STRAND-MOUNTED WIRELESS COMMUNICATION DEVICES

A strand-mounted wireless communication device shall be considered part of wireline attachment and not subject to permitting or an additional attachment charge if it is located within the one (1) foot vertical space occupied by Attachment Customer's cable and meets all applicable loading, clearance, and RF emission requirements. Before deploying any strand-mounted wireless communications devices other than strand-mounted wi-fi access points, Attachment Customer shall at least sixty (60) days prior to planned deployment notify Company of the proposed deployment and provide sufficient information regarding the nature of device to permit Company to assess the safety and loadbearing implications of the proposed deployment.

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12. MAINTENANCE OF ATTACHMENTS AND STRUCTURES

Attachment Customer shall maintain Attachments in safe condition and in good repair, in a manner reasonably suitable to Company and so as not to conflict with any use of Company facilities (including Structures) by Company or any other Person using such facilities pursuant to any license or permit by Company. Attachment Customer shall not interfere with the working use of any other Person's property on or in such facilities or any such property, which may be placed on or near the Structures and other facilities. Company reserves to itself, its successors, Affiliates and assigns, the right to maintain Structures and other Company property and to operate its business and maintain its property in such a manner as will, in its own judgment, best enable it to fulfill its own service requirements. Company shall not be liable to Attachment Customer for any interference with the operation of Attachment Customer's facilities, or loss of business arising in any manner out of the use of Company's Structures or other property.

13. NATIONAL JOINT UTILITIES NOTIFICATION SYSTEM

Within thirty (30) days of executing a Contract, and prior to making application for any Attachment, Attachment Customer will join National Joint Utilities Notification System ("NJUNS"), a web-based system developed to improve joint use communication, and will actively participate during the term of service, by entering field information into the NJUNS system within the times required by the system. Should Attachment Customer fail to actively participate in NJUNS and should such failure cause Company to incur expense or liability to others, Attachment Customer shall reimburse Company its expense and indemnify and hold Company harmless from any damages or liability arising out of such failure. If Company at a later date elects to use a different system for purposes of the communication currently facilitated by NJUNS, Company shall notify Attachment Customer at least sixty (60) days in advance of such change and Attachment Customer shall make arrangements to participate in that system.

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Pole and Structure Attachment Charges

14. INSPECTIONS/AUDITS

Company may make periodic inspections for the purpose of determining compliance with this Schedule and with the Contract. Neither Company's right to make inspections nor any inspection made by Company shall relieve an Attachment Customer of any responsibility, obligation or liability assumed under this Schedule.

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Upon thirty (30) days' prior notice to Attachment Customer, Company may conduct an audit of its Structures to verify the number, location and type of Attachment Customer's Attachments. Company shall make available to Attachment Customer the report of such audit. Such report shall indicate the location and pole number of all attachments of the Attachment Customer. If the audit reveals that the number of Attachments exceeds the number of attachments shown in Company's existing records, the excess number of Attachments shall be presumed to be Unauthorized Attachments. Attachment Customer shall have the right to rebut this presumption and demonstrate that the attachments at issue were authorized. Attachment Customer shall reimburse Company for the expense of such audit, or its pro rata share of such expense if the Attachments of other Attachment Customers are included within the scope of the audit, within thirty (30) days of an invoice for such expenses.

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15. INTERFERENCE OR HAZARD

If Company notifies Attachment Customer in writing or orally with written confirmation that the Attachment Customer's Attachments or the condition of Attachment Customer's Attachments on or in any Structure (i) interfere with the use of such Structure or the operation of Company facilities or equipment, (ii) constitute a hazard to the service rendered by Company or any other Persons permitted by Company to use such Structures, (iii) cause a danger to employees of Company or other Persons, or (iv) fail to comply with the Company's standards and applicable requirements of the NESC, NEC, and all other applicable codes, laws and regulations, Attachment Customer shall, within a reasonable period, remove, rearrange, repair or change its Attachments as needed or as directed by Company. In the case of any immediate hazard or danger, such period shall not exceed twenty-four (24) hours from Attachment Customer's receipt of such notice. In case of a hazardous condition or other emergency which requires the immediate removal or relocation of the Attachment Customer's Attachments, Company may at Attachment Customer's expense, without prior notice and with no liability therefor, remove or relocate such Attachments; provided however, that Company shall notify Attachment Customer of such action as soon as reasonably possible by any appropriate means, including by telephone.

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Pole and Structure Attachment Charges

16. REARRANGEMENT; RELOCATION OF STRUCTURES; NEW STRUCTURES

- a. If Attachment Customer's Attachments can be accommodated on or in existing Structures only by rearranging Company facilities, or if because of Attachment Customer's proposed Attachments, Company rearranges or transfers its facilities on or in any facility not owned by it, Attachment Customer shall reimburse Company for the actual expense incurred in making such rearrangement or transfer.

- b. Upon forty-five (45) days prior written notice delivered to Attachment Customer, Company may replace, relocate, or remove any Structure and cause the alteration, relocation or removal of any Attachment, consistent with normal operating, maintenance and development procedures and prudent utility practices. In cases of emergency or dangerous situations, Company shall give only as much prior notice as practical under the circumstances. Likewise, in situations where the Company is required to replace, relocate or remove any Structure in less than 45 days by state or local law, easement provisions, contractual obligations to third parties or to meet the Company's obligation to provide electric service to another customer, Company need provide only as much prior notice as reasonably practical under the circumstances, Company shall bear all costs and expenses of any relocation of the Structures not attributable to or caused by Attachment Customer or its Attachments. Attachment Customer shall bear all costs and expenses of any relocation and removal of the Attachments and all costs and expenses attributable to or caused by Attachment Customer or its Attachments. Attachment Customer shall be solely responsible for any losses occasioned by the interruption of Attachment Customer's business or operations and shall indemnify and hold Company harmless in connection with same.

- c. Company may reserve space on its poles in accordance with a bona fide development plan for electric service. Company may direct, by written notice to Attachment Customer, that Attachment Customer's attachments in such reserve space may be removed from the Structures. Company shall use reasonable efforts to make space available as close in proximity as possible to the former Structures or to offer Attachment Customer the option to perform make-ready work to create additional space on the Structure in question. Attachment Customer shall make such relocation within sixty (60) days of the Company's request.

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On and After November 1, 2018

ISSUED BY: /s/ Robert M. Conroy, Vice President
State Regulation and Rates
Lexington, Kentucky

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Kentucky Utilities Company

P.S.C. Electric No. 19, Original Sheet No. 40.17

Standard Rate

PSA

Pole and Structure Attachment Charges

- d. In the event a Person other than Attachment Customer applies to make an Attachment to a Structure on which Attachment Customer has placed an Attachment, and such application requires that Attachment Customer rearrange, transfer or relocate its Attachments, then Attachment Customer shall perform such rearrangement, transfer or relocation within sixty (60) days of notice of such need to rearrange, transfer or relocate. Attachment Customer may condition its rearrangement, transfer or relocation upon reimbursement for the cost of such rearrangement, transfer or relocation. In the event Attachment Customer fails to perform such rearrangement, transfer or relocation within the time frame described above, the affected Attachments may be subject to rearrangement, transfer or relocation by the Person whose application necessitated the rearrangement, transfer or relocation to the extent permitted by law. T

17. REMOVAL OF ATTACHMENT T

Attachment Customer may at any time voluntarily remove its Attachments from any Structure, but shall immediately give Company written notice of such removal on Company-prescribed form. Attachment Customer shall bear all cost of removal and any costs that Company incurs as a result of such removal and shall pay such costs within thirty (30) days of receipt of an invoice. No refund of any amount paid for use of such Structure will result from Attachment Customer's voluntary removal nor shall such voluntary removal affect any other obligation or liability of Attachment Customer under this Schedule or the Contract. T

18. INDEMNITIES

Attachment Customer shall protect, defend, indemnify and save harmless Company, its Affiliates, their officers, directors, employees and representatives from and against all damage, loss, claim, demand, suit, liability, penalty or forfeiture of every kind and nature, including but not limited to costs and expenses of defending against the same, payment of any settlement or judgment therefor and reasonable attorney's fees that are incurred in such defense, by reason of any claims arising from Attachment Customer's activities under this Schedule, or the Contract, or from Attachment Customer's presence on the Company's premises, or from or in connection with the construction, installation, operation, maintenance, presence, replacement, enlargement, use or removal of any facility of Attachment Customer attached or in the process or being attached to or removed from any Company Structure by Attachment Customer, its employees, agents, or other representatives, including but not limited to claims alleging (1) injuries or deaths to Persons; (2) damage to or destruction of property including loss of use thereof; (3) power or communications outage, interruption or degradation; (4) pollution, contamination of or other adverse effects on the environment; (5) violation of governmental laws, regulations or orders; or (6) rearrangement, transfer, or removal of any third party attachment on, from, or to any Company Structure whether suffered directly by Company itself or indirectly by reason of claims, demands or suits against it by third parties, resulting or alleged to have resulted from Attachment Customer's activities under this Schedule, or the Contract, or from Attachment Customer's presence on T

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P.S.C. Electric No. 19, Original Sheet No. 40.18

Standard Rate

PSA

Pole and Structure Attachment Charges

Company's premises, or from or in connection with the construction, installation, operation, maintenance, presence, replacement, enlargement, use or removal of any facility of Attachment Customer attached or in the process or being attached to or removed from any Company Structure by Attachment Customer, its employees, agents, or other representatives. The indemnity set forth in this section shall include indemnity for any claims arising out of the joint negligence of Attachment Customer and Company; provided however, the indemnity set forth in this section, but not Attachment Customer's duty to defend, shall be reduced to the extent it is established by final adjudication or mutual agreement of Attachment Customer and Company that the liability to which such indemnity applies was caused by the negligence or willful misconduct of Company. If Attachment Customer is required under this provision to indemnify Company, Attachment Customer shall have the right to select defense counsel and to direct the defense or settlement of any such claim or suit. T

19. UNAUTHORIZED ATTACHMENTS

If Attachment Customer makes any Attachment that requires Company approval or advance notice under this Schedule or the Contract and has not obtained such approval or provided such advance notice, such Attachment shall be deemed an "Unauthorized Attachment," and shall be presumed to have been affixed to Company Structures for two years or since completion of the most recent audit, whichever is occurring earlier. Attachment Customer shall be liable for attachment charges for this time period. In addition to the attachment charges for the period of unauthorized attachment, Attachment Customer shall pay a penalty for each Unauthorized Attachment in the amount of \$25.00. Attachment Customer shall also submit to Company an application for approval of the Unauthorized Attachment within thirty (30) days of the attachment's discovery. If Attachment Customer fails to submit the required applications or fails to timely remit any necessary payments to Company in connection with the application process (including but not limited to any make-ready fees necessary to accommodate the Unauthorized Attachments), Company may remove any or all such Unauthorized Attachments at Attachment Customer's expense. T
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20. DEFAULT

- a. If Attachment Customer fails to pay any undisputed fee required, perform any material obligations undertaken or satisfy any warranty or representation made under the Contract comply with any of the provisions of this rate schedule or default in any of its obligations under this Schedule, including Section 5 of the Company's Electric Tariff, and shall fail within thirty (30) days after written notice from Company to correct such default or non-compliance, Company may, at its option, terminate the license covering the Structures to which such default or non-compliance is applicable; remove, relocate or rearrange at Attachment Customer's expense the Attachments to which the default or non-compliance relates; or decline to permit additional Attachments until the failure or default is cured. Company shall give written notice to Attachment Customer of said termination. In the event of material or repeated default, Company may terminate the Contract and recover from Attachment Customer all costs and expenses incurred as a result of related to the defaults. No refund of any attachment charge will be due on account of such termination. T
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P.S.C. Electric No. 19, Original Sheet No. 40.19

Standard Rate

PSA

Pole and Structure Attachment Charges

21. TERMINATION

Attachment Customer may terminate a Contract by providing the other written notice of termination at least sixty (60) days prior to the end of the term of service. T
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Upon termination, Attachment Customer shall remove all Attachments from Structures and other Company property within 180 days. Attachment Customer shall bear all costs of such removal and shall exercise precautions to avoid damage to all Persons and to facilities of Company and other parties in so removing Attachments and assumes all responsibility for all damage it causes. If Attachment Customer's Attachments and other property are not removed within 180 days of termination of this Agreement, unless the time is extended by mutual agreement, Company may remove Attachment Customer's Attachments without liability and Attachment Customer shall pay Company the cost of such removal within thirty (30) days of receipt of an invoice. T
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Company may terminate a Contract without liability to Attachment Customer, upon giving sixty (60) days advance written notice to Attachment Customer that it has a reasonable belief that Company's performance under the Contract would be illegal under applicable law or regulation or under any order or ruling issued by the PSC, or any other federal, state or local agency having regulatory jurisdiction over Company and same cannot be cured by Company without unreasonable expense or without materially and substantially altering the terms and conditions of the Contract; or that termination is required to preserve Company's rights under any franchise, right-of-way, permit, easement or other similar right which is material and substantial to Company's business or operations. In the event of such termination, Company and Attachment Customer shall pay and perform obligations that have arisen prior to the effective date of termination, but shall not be obligated to pay and perform obligations, which arise after the effective date of termination. T
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22. WAIVER

Failure by Company to enforce or insist upon compliance with any of the terms or conditions of this Schedule or the Contract shall not constitute a general waiver or relinquishment of any such terms or conditions, but the same shall be and remain at all times in full force and effect. T

23. INSURANCE

a. Throughout the term of service and so long as Attachment Customer's Attachments are on or in Company Structures, Attachment Customer shall, at its own expense, maintain and carry in full force and effect insurance that meets at least the following requirements (these minimum limits should not be deemed to replace Attachment Customer's full obligation under this Schedule or the Contract): T
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P.S.C. Electric No. 19, Original Sheet No. 40.20

Standard Rate

PSA

Pole and Structure Attachment Charges

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| (1) Workers' Compensation and Employer's Liability Policy, which shall include: (a) Workers' Compensation (Coverage A); Employers Liability (Coverage B) with minimum limits of \$1,000,000 Bodily Injury by Accident, each Accident, \$1,000,000 Bodily Injury by Disease, each Employee; (c) Thirty (30) Day Cancellation Endorsement; and (d) Form All States Endorsement. | T
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| (2) Commercial General Liability Policy, which shall have minimum limits of \$1,000,000 each occurrence; \$1,000,000 Products/Completed Operations Aggregate each occurrence; \$1,000,000 Personal and Advertising Injury each occurrence, in all cases subject to \$2,000,000 in the General Aggregate for all such claims, and including: (a) Thirty (30) Day Cancellation Endorsement; (b) Blanket Written Contractual Liability to the extent covered by the policy against liability assumed by Company under the Attachment Customer Agreement; (c) Broad Form Property Damage; and (d) General Aggregate Limit – Per Project Endorsement (CG2503); (e) Include Additional Insured Endorsement GC 2010 or CG2037, or its equivalent; and (f) Insurance for liability arising out of blasting, collapse, and underground damage (deletion of X, C, U Exclusions). | N
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| (3) Commercial Automobile Liability Insurance covering the use of all owned, non-owned, and hired automobiles, with a bodily injury, including death, and property damage combined single minimum limit of \$1,000,000 each occurrence. | |
| (4) Umbrella/Excess Liability Insurance with minimum limits of \$5,000,000 per occurrence; \$5,000,000 aggregate, to apply to employer's liability, commercial general liability, and commercial automobile liability; including: (a) "Follow Form" provisions; and (b) Note that Total Limits can be met by any combination of primary and umbrella/excess policies. | I
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| (5) Aircraft Public Liability - Required at all times when there will be use of any type of fixed wing, rotor, or any type aircraft to perform any work required under this Schedule or the Contract. Aircraft Public Liability Insurance covering such aircraft whether owned, non-owned, leased, hired or assigned with a combined single minimum limit for bodily injury and property damage of \$5,000,000 including passenger liability coverage. | T
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| (6) Drones – Required at all times if any Unmanned Aircraft Systems (UAS) will be used by Contractor or Subcontractor in performing the work required under this Schedule or the Contract, Drone Liability Insurance covering such aircraft whether owned, non-owned, leased, hired or assigned with a \$1,000,000 per occurrence combined single limit for bodily injury, property damage and personal injury. | N
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P.S.C. Electric No. 19, Original Sheet No. 40.21

Standard Rate

PSA

Pole and Structure Attachment Charges

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| (7) Professional Liability - To the extent the work required under this Schedule or the Contract includes any professional services that falls within a professional liability exclusion from the policy provided under Section 23a.(2). Coverage required with limits of Five Million Dollars (\$5,000,000) per claim and Five Million Dollars (\$5,000,000) in the aggregate, which insurance shall be on a claims made basis. Policy to remain in force continuously for three (3) years or an extended discovery period will be exercised for a period of three (3) years beginning from the time the services under this contract are completed. | T
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| b. Attachment Customer shall require its Contractors and subcontractors to provide and maintain the same insurance coverage as required of Attachment Customer. | |
| c. Except with regard to workers' compensation and professional liability, each policy required under this schedule shall name Company and all its Affiliates as an additional insured and shall waive rights of subrogation against Company, and all its Affiliates, and Company's insurance carrier(s). All policies shall be primary and non-contributory. Condition applies to Attachment Customer and its Contractors and Subcontractors. | T
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| d. All policies shall be written by insurance companies that are either satisfactory to Company or have an A.M. Best Rating of not less than "A-, VII". These policies shall not be materially changed or canceled except with thirty (30) days written notice to Company from Attachment Customer and the insurance carrier. Attention: Manager, Project Manager – Third Party Attachments, LG&E and KU Services Company, P.O. Box 32020, Louisville, Kentucky 40232. | T
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| e. Company may request a summary of coverage of any of required policies or endorsements; but is not obligated to review any of Attachment Customer's certificates of insurance, insurance policies, or endorsements, or to advise Attachment Customer of any deficiencies in such documents. Company's receipt or review of such documents shall not relieve Attachment Customer from or be deemed a waiver of Attachment Customer's obligations to maintain insurance as provided. Attachment Customer shall provide a summary of coverage within (thirty) 30 days of its request by the Company. | N
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| f. Attachment Customer shall provide Certificates of Insurance to Company for each policy of insurance required above and evidence the items noted hereafter: (1) Each Certificate shall properly identify the certificate holder as Company; (2) Under no circumstances shall Attachment Customer begin any work (or allow any Subcontractor to begin any work) prior to submitting Certificate(s) (evidencing the required insurance of Contractor or Subcontractor, as applicable) acceptable to Company. Company retains the right to waive this requirement at its sole discretion; (3) Certificate shall evidence (thirty) 30 days prior notice of cancellation; (4) Certificate shall verify additional insured status on all | T/N
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	P.S.C. Electric No. 19, Original Sheet No. 40.22	
Standard Rate	PSA	N
	Pole and Structure Attachment Charges	N
	coverage including the endorsements required by Section 23a.(2); (5) Certificate shall verify Blanket Waiver of subrogation - All policies of insurance shall include waivers of subrogation, under subrogation or otherwise, against Company. Except where not applicable by law; (6) Certificate shall verify Primary/Non-contributory wording in favor of Company; and (7) Certificate shall identify policies which are written on a Claims Made coverage form and state the retro date.	N N N N N N
	g. Attachment Customer shall notify Company, prior to the commencement of any work pursuant to this rate Schedule or the Contract, of any threatened, pending and/or paid off claims to third parties, individually or in the aggregate, which otherwise affects the availability of the limits of such coverage(s) inuring to Company's benefit.	T/N N N N
	h. Attachment Customer shall provide notice of any accidents, occurrences, or claims involving Attachment Customer's Attachment or Attachment Customer's work under this Schedule and the Contract to the LKS Manager, Risk Management at LG&E and KU Services Company, P.O. Box 32030, Louisville, Kentucky 40232.	N N N N
	i. Each policy of insurance required to be maintained by Attachment Customer under this Section 23 (except the Workers' Compensation and Employer's Liability Policy) shall cover all losses and claims of Attachment Customer regardless of whether they arise directly to Attachment Customer or indirectly through Subcontractors (e.g., Attachment Customer's CGL policy must cover Attachment Customer and additional insureds against negligent acts of a Subcontractor, etc.). Section 23 only represents minimum insurance requirements; it does not mitigate or reduce liability required by the indemnity provisions in this Schedule or the Contract. Nor should it be deemed to be the full responsibility of the contractor or subcontractor for liability. Attachment Customer is responsible for their subcontractor's insurance meeting the requirements of Section 23 of this Schedule.	N N N N N N N N N N
	j. Attachment Customer may elect not to comply with sections (a) through (i) of this Section 23 if it provides proof of equivalent levels of self-insurance and:	T T
	1. Attachment Customer has been in business at least three (3) years and has a corporate credit rating or a senior unsecured rating of at least Baa2 (Moody's) or BBB (Standard & Poor's); or	T
	2. Attachment Customer has been in business at least three years, and provides its most recent audited financial statements to Company which demonstrates that Attachment Customer meets standards that are at least equivalent to the standards underlying the credit ratings of Baa2 (Moody's) or BBB (Standard and Poor's); or,	T

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Standard Rate	PSA	N
	Pole and Structure Attachment Charges	N

3. A corporate entity affiliated with Attachment Customer ("Guarantor") meets the criteria set out in (1) or (2) above, and Guarantor provides a written guarantee (in a form acceptable to Company, that the corporate affiliate will guarantee all financial obligations associated with Attachment Customer's use of Company's Structures.)

24. PERFORMANCE ASSURANCE

a. Attachment Customer shall furnish Performance Assurance in the following amounts to guarantee the payment of any sums which may become due for attachment charges, inspections, or work performed by the Company under this Schedule or the Contract, including the removal of attachments upon termination of the Contract by any of its provisions:

<u>Number of Attachments</u>	<u>Amount per Attachment</u>	<u>Maximum Total</u>	
1-5,000	\$20/Attachment	\$100,000	N
5,001-10,000	\$10/Attachment	\$150,000	I
10,001+	\$5/Attachment	\$1,000,000	I

The above-stated amounts are incremental. By way of example, 7,500 Attachments would require Performance Assurance in the amount of \$125,000 (\$20 per Attachment for the first 5000 Attachments; \$10 per Attachment for the next 2,500 Attachments); 15,000 Attachments would require Performance Assurance in the amount of \$175,000 (\$20 per Attachment for the first 5000 Attachments; \$10 per Attachment the next 5,000 Attachments; and \$5 per Attachment for the last 5,000 Attachments).

The amount of the Performance Assurance shall be calculated by the Company annually based on the Attachment Customer's then-existing number of Attachments. Attachment Customer shall provide the Performance Assurance within 30 days of its request by the Company.

If Attachment Customer proposes to attach a Wireless Facility or Facilities to a Structure, Attachment Customer shall post a Performance Assurance in the amount of \$1,500 for each pole to which a wireless attachment is attached. The amount of the Performance Assurance shall not be reduced upon completion of installation or other event.

In the event the Customer provides Performance Assurance in the form of a surety bond or Letter of Credit, each bond or Letter of Credit shall contain the provision that it shall not be terminated prior to six (6) months after Company's receipt of written notice of the desire of the bonding or insurance company, or bank, to terminate such bond or Letter of Credit. Company may waive this requirement if an acceptable replacement is received before the six (6) months has ended. Upon termination of such surety bond or Letter of

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Standard Rate	PSA	P.S.C. No. 19, Original Sheet No. 40.24
	Pole and Structure Attachment Charges	N

Credit, , Company shall request Attachment Customer to immediately remove its Cables, Wireless Facilities, Attachments and all other facilities from Company Structures. If Attachment Customer should fail to complete the removal of all of its facilities from Company's Structures within thirty (30) days after receipt of such request, then Company may remove Attachment Customer's facilities at Attachment Customer's expense and without liability for any damage to Attachment Customer's facilities. T

Each surety bond shall be issued by an entity having a minimum A.M. Best rating of A- and/or Letter of Credit shall be issued by an entity having a minimum Credit Rating of A- by S& P or A3 by Moody's at the time of issuance and at all times the relevant bond is outstanding. T

b. Attachment Customer may elect not to provide a Performance Assurance if: T

1. Attachment Customer has been in business at least one (1) year and has a corporate credit rating or a senior unsecured rating of at least Baa2 (Moody's) or BBB (S&P's); or T

2. Attachment Customer has been in business at least one (1) year, and provides its most recent audited financial statements to Company which demonstrates that Attachment Customer meets standards that are at least equivalent to the standards underlying the credit ratings of Baa2 (Moody's) or BBB (S&P's); or, T

3. A corporate affiliate of Attachment Customer ("Guarantor") meets the criteria set out in (1) or (2) above, and Guarantor provides a written guarantee (in a form acceptable to Company, that the corporate affiliate will guarantee all financial obligations associated with Attachment Customer's use of Company's Structures). T

Annually, upon the Company's request, an Attachment Customer electing not to provide Performance Assurance under one of the options in c. above shall provide Company with such information as Company requires to determine whether Attachment Customer remains eligible to make such election. N

25. CERTIFICATION OF NOTICE REQUIREMENTS

Attachment Customer's highest ranking officer located in Kentucky shall certify under oath on or before January 31 of each year that the Attachment Customer has complied with all notification requirements of this Schedule. The certification shall be in the form prescribed by Company from time to time, and Company shall provide the current version of such form on or after January 1 of each year. If Attachment Customer does not have an officer located in Kentucky, then the certification shall be provided by the officer with responsibility for Attachment Customer's operations in Kentucky. N

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P.S.C. No. 19, Original Sheet No. 40.25

Standard Rate

PSA

Pole and Structure Attachment Charges

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26. NOTICES

Any notice, or request, required by this Schedule or the Attachment Customer Agreement shall be deemed properly given if sent overnight by nationally recognized overnight courier, sent by certified U.S. mail, return receipt requested, postage prepaid, or sent by telecopier with confirmed receipt, to Company's and Attachment Customer's designated representative. The designation of the representative to be notified, his address and/or telecopier number may be changed at any time by similar notice.

27. LIENS

To the extent permitted by law, in the event any construction lien or other encumbrance shall be placed on the Attachments as a result of the actions or omissions of Attachment Customer or its Contractor, Attachment Customer shall promptly, in accordance with applicable laws, discharge such lien or encumbrance without cost or expense to Company. Attachment Customer shall indemnify Company for any and all actual damages that may be suffered or incurred by Company in discharging or releasing said lien or encumbrance.

28. FORCE MAJEURE

In the event Attachment Customer or Company is delayed in or prevented from performing any of its respective obligations under an Attachment Customer Agreement or this Schedule due to acts of God, war, riots, civil insurrection, acts of the public enemy, strikes, lockouts, acts of civil or military authority, government shutdown, fires, floods, earthquakes, storms and other major disruptive events, fiber, cable or other material failures, shortages or unavailability, delay in delivery not resulting from its failure to timely place orders therefor, lack or delay in transportation, or due to any other causes beyond its reasonable control, then such delay or nonperformance shall be excused.

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29. LIMITATION OF LIABILITY

IN NO EVENT SHALL COMPANY OR ANY OF ITS REPRESENTATIVES BE LIABLE UNDER A CONTRACT OR THIS SCHEDULE TO ATTACHMENT CUSTOMER FOR CONSEQUENTIAL, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, PUNITIVE OR ENHANCED DAMAGES, LOST PROFITS OR REVENUES OR DIMINUTION IN VALUE, ARISING OUT OF, OR RELATING TO, OR IN CONNECTION WITH A CONTRACT OR THIS SCHEDULE, REGARDLESS OF (A) WHETHER SUCH DAMAGES WERE FORESEEABLE, (B) WHETHER OR NOT COMPANY WAS ADVISED OF THE POSSIBILITY OF SUCH DAMAGES AND (C) THE LEGAL OR EQUITABLE THEORY (CONTRACT, TORT OR OTHERWISE) UPON WHICH THE CLAIM IS BASED. THE LIMITATIONS SET FORTH IN THIS SECTION 29 SHALL NOT APPLY TO DAMAGES OR LIABILITY ARISING FROM THE GROSSLY NEGLIGENT ACTS OR OMISSIONS OR WILLFUL MISCONDUCT OF COMPANY IN PERFORMING ITS OBLIGATIONS UNDER AN ATTACHMENT CUSTOMER AGREEMENT OR THIS SCHEDULE.

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P.S.C. No. 19, Original Sheet No. 72.1

Standard Rate Rider

SSP

Solar Share Program Rider

PROGRAM DESCRIPTION

The Solar Share Program is an optional, voluntary program that allows customers to subscribe to capacity in the Solar Share Facilities. Each Solar Share Facility will have an approximate direct-current (DC) capacity of 500 kW and will be available for subscription in nominal 250 W (quarter-kW) DC increments. Each subscribing customer ("Subscriber") may subscribe capacity up to an aggregate amount of 500 kW DC, though no Subscriber may subscribe more than 250 kW DC in any single Solar Share Facility.

There are two mutually exclusive options for subscribing to each increment of capacity. N

Option 1: Capacity Subscribed by Paying Only the One-Time Solar Capacity Charge N

For capacity subscribed by paying the One-Time Solar Capacity Charge, the One-Time Solar Capacity Charge will be included on the Subscriber's bill for the first billing period in which the subscribed capacity achieves commercial operation. N
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A customer choosing to pay the One-Time Solar Capacity Charge may transfer subscribed capacity between the customer's own accounts or may assign subscribed capacity to another customer. Once assigned, the assigning customer forfeits all rights to the assigned capacity. N
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A customer who ceases taking service from Company will have 60 calendar days to assign subscribed capacity to another customer within Company's service area. Any capacity such a customer does not assign within 60 days of ceasing to take service will be forfeited and made available to other customers under Option 2: Capacity Subscribed by Paying Only the Monthly Solar Capacity Charge. N
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Option 2: Capacity Subscribed by Paying Only the Monthly Solar Capacity Charge N

For capacity subscribed by paying the Monthly Solar Capacity Charge, the Solar Capacity Charge will be included on the Subscriber's bill beginning with the bill for the first billing period in which the subscribed capacity achieves commercial operation. T
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Monthly subscriptions of less than 50 kW DC will not require a contract; however, a customer may not reduce or cancel a monthly subscription earlier than 12 months from the date of the customer's most recent change to the customer's monthly subscription level. Therefore, a customer subscribing monthly less than 50 kW has a 12-month commitment from the date of the customer's initial monthly subscription or initial solar facility commercial operation, whichever is later, and may have a longer commitment if the customer subsequently increases monthly subscribed capacity (which a customer may do at any time) or if the customer chooses to decrease but not cancel the monthly subscription after the initial 12 months. Monthly subscriptions of 50 kW DC or more require a 5-year contract with Company. T
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ISSUED BY: /s/ Robert M. Conroy, Vice President
State Regulation and Rates
Lexington, Kentucky

**Issued by Authority of an Order of the
Public Service Commission in Case No.
2018-00294 dated _____**

Kentucky Utilities Company

P.S.C. No. 19, Original Sheet No. 72.2

Standard Rate Rider

SSP

Solar Share Program Rider

TERMS AND CONDITIONS

- | | | |
|----|---|---------------------------------|
| 1. | Individual subscriptions are available in nominal 250 W DC (quarter-kW) increments. | D |
| 2. | Customer may subscribe as much solar capacity as desired up to an aggregate amount of 500 kW DC (nominal). No customer may subscribe more than 250 kW DC (nominal) in any single Solar Share Facility. | T |
| 3. | All One-Time Solar Capacity Charges are non-refundable. | N |
| 4. | Subject to the restrictions above, Company will fill subscriptions as capacity in the Solar Share Facilities becomes available, and will fill subscriptions in the chronological order in which the subscriptions were made. A Subscriber whose subscription the Company can fulfill only partially may either accept the available capacity and await additional capacity, or decline the partial fulfillment, allowing the next awaiting Subscriber(s) to accept the available capacity. Accepting or declining available capacity will not affect a Subscriber's place in the queue of Subscribers awaiting capacity. | |
| 5. | Customers may not owe any arrearage prior to participating in the Solar Share Program. | |
| 6. | Subscribers' pro-rata share of the AC electricity produced by the Solar Share Facilities will be determined on a billing-cycle basis. The corresponding Solar Energy Credit will be calculated and appear on the Subscriber's bill. | T
T |
| 7. | Unless constrained by contract (see Term of Contract below), Subscriber may decrease or terminate a monthly subscription any time after 12 months following the date of the most recent change to Subscriber's monthly subscription capacity at any time. | D
T
T |
| 8. | Unless constrained by contract (see Term of Contract below) or condition #2 above, Subscriber may also increase monthly subscribed capacity at any time. | T |
| 9. | Subscriptions made by paying the One-Time Solar Capacity Charge may be transferred between a Subscriber's accounts no more than once per billing period (Solar Energy Credit values do not transfer between accounts or customers). A subscription transfer between a Subscriber's accounts takes effect in the billing period following the billing period in which the Subscriber requests the transfer. A Subscriber may transfer a subscription at any time prior to or including 60 calendar days after the Subscriber terminated service on the account to which the subscription attached. If the Subscriber whose account has been terminated does not transfer the subscription within 60 calendar days, the Subscriber forfeits the subscription. | N
N
N
N
N
N
N |

DATE OF ISSUE: September 28, 2018

DATE EFFECTIVE: With Service Rendered
On and After November 1, 2018

ISSUED BY: /s/ Robert M. Conroy, Vice President
State Regulation and Rates
Lexington, Kentucky

**Issued by Authority of an Order of the
Public Service Commission in Case No.
2018-00294 dated _____**

Kentucky Utilities Company

P.S.C. No. 19, Original Sheet No. 72.3

Standard Rate Rider

SSP

Solar Share Program Rider

TERMS AND CONDITIONS (continued)

- | | |
|--|---|
| 10. Capacity subscribed by paying the Monthly Solar Capacity Charge is not transferrable or assignable between customers. | T
T |
| 11. Capacity subscribed by paying the One-Time Solar Capacity Charge may be assigned between customers, but only within the same Company service territory, at any time prior to or including 60 calendar days after the assigning Subscriber terminated service on the account to which the subscription attached. Once assigned, the assigning customer loses all rights regarding future credits and the ability to subsequently assign the capacity; those rights become the rights of the assignee upon assignment. Assigned capacity cannot be reassigned by the assignee to any other Customer, including the Customer who originally subscribed the assigned capacity. For all purposes other than the Solar Energy Credit, all capacity assignments become effective immediately upon assignment. For the purpose of the Solar Energy Credit, the assignor will receive Solar Energy Credits for the entire billing period in which the assignment occurs; the assignee will receive Solar Energy Credits beginning in the first billing period following the assignment. | N
N
N
N
N
N
N
N
N
N
N |
| 12. Unused Solar Energy Credit value is not transferrable between customers or customer accounts. Therefore, a Subscriber's closing a customer account terminates any unused Solar Energy Credit value associated with that account. | N
N
N |
| 13. Participants in SSP are required to have an advanced meter capable of collecting and communicating at least 15 minute interval data. | N
N |
| 14. All Renewable Energy Credits ("RECs") related to energy produced by subscribed portions of the Solar Share Facilities will be retired. | |
| 15. Use of any images of the Solar Share Facilities or use any other of Company's intellectual property requires Company licensing prior to use. | |
| 16. Service will be furnished under Company's Terms and Conditions except as provided herein. | |

TERM OF CONTRACT

Subscriptions of 50 kW DC or more will require a five (5) year non-transferrable, non-assignable contract between Subscriber and Company.

DATE OF ISSUE: September 28, 2018

DATE EFFECTIVE: With Service Rendered
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ISSUED BY: /s/ Robert M. Conroy, Vice President
State Regulation and Rates
Lexington, Kentucky

Issued by Authority of an Order of the
Public Service Commission in Case No.
2018-00294 dated _____

KENTUCKY UTILITIES COMPANY

**Response to Commission Staff's Second Request for Information
Dated November 13, 2018**

Case No. 2018-00294

Question No. 2

Responding Witness: Robert M. Conroy

- Q-2. Refer to the Direct Testimony of Robert M. Conroy (Conroy Testimony), page 7, lines 6-18.
- a. Provide the Edison Electric Institute's Typical Bills and Average Rates Report Winter 2018.
 - b. Explain how KU's proposed rates will compare to the average residential electric rates of other investor-owned electric utilities.
 - c. Provide a list of all Kentucky electric utility customer charges and energy rates for the residential class. Include KU's current rates and proposed rates.
- A-2.
- a. The relevant portions of the requested report are attached. The regional comparison includes the states of Delaware, Illinois, Indiana, Kentucky, Maryland, Michigan, New Jersey, Ohio, Pennsylvania, West Virginia, and Wisconsin.
 - b. Using Edison Electric Institute's Typical Bills and Average Rates Report Winter 2018 and the Residential Proposed Increase of 8.10% at an average 1,139kWh (from Schedule M & N), the KU residential average for the 12 month ending 12/31/17 rate of 8.64 cents/kWh will increase to an estimated 9.49 cents/kWh. This estimated residential average rate for KU is still well below the Residential Average for USA of 12.54 cents/kWh of all electric utilities.
 - c. See attached for a compilation of the requested information based on what is available thru the PSC or individual company websites.

Average Rates
(in cents/kilowatthour)

Residential Average Rates

12 Months Ending 12/31

2016 2017

Mid-Atlantic

New Jersey

Atlantic City Electric Company	generation	10.07	9.80
	transmission	1.41	1.43
	delivery	6.20	6.62
	total rate	17.67	17.84
Jersey Central Power & Light Company	generation	8.85	8.46
	transmission	0.46	0.46
	delivery	3.64	4.39
	ctc	0.41	0.31
	total rate	13.36	13.62
Public Service Electric & Gas Company	generation	11.50	11.17
	delivery	4.80	4.81
	ctc	0.00	-0.01
	total rate	16.30	15.96
Rockland Electric Company	total rate	16.98	16.35
Average For New Jersey	generation	10.43	10.07
	transmission	0.76	0.76
	delivery	4.61	4.93
	ctc	0.17	0.12
	total rate	15.57	15.47
total for all utilities (IOUs, munis, coops, etc.)		15.74	

Average Rates
(in cents/kilowatthour)

Residential Average Rates

		12 Months Ending 12/31	
		2016	2017
New York			
<hr/>			
Central Hudson Gas & Electric Corporation			
	total rate	16.48	17.04
Consolidated Edison Company of New York			
	total rate	24.91	25.34
LIPA			
	generation	7.23	10.14
	delivery	11.77	9.73
	total rate	18.99	19.87
National Grid (Niagara Mohawk Power Corporation)			
	total rate	13.10	13.62
New York State Electric & Gas Corporation			
	total rate	11.39	11.89
Orange & Rockland Utilities, Inc.			
	total rate	19.84	21.01
Rochester Gas & Electric Corporation			
	total rate	12.72	13.52
<hr/>			
Average For New York			
	generation	7.23	10.14
	delivery	11.77	9.73
	total rate	17.73	18.26
	total for all utilities (IOUs, munis, coops, etc.)	17.40	

Average Rates
(in cents/kilowatthour)

Residential Average Rates

		12 Months Ending 12/31	
		2016	2017
Pennsylvania			
<hr/>			
Duquesne Light Company	generation	6.05	5.97
	transmission	1.75	1.72
	delivery	7.46	8.17
	total rate	15.26	15.87
Metropolitan Edison Company	generation	7.07	6.63
	delivery	5.84	6.91
	ctc	0.10	0.01
	total rate	13.01	13.55
PECO Energy	generation	7.17	6.61
	transmission	0.62	0.63
	delivery	5.59	5.69
	total rate	13.37	12.93
Pennsylvania Electric Company	generation	7.00	6.27
	delivery	7.24	8.80
	ctc	0.28	0.25
	total rate	14.52	15.32
Pennsylvania Power Company	generation	7.98	6.67
	delivery	5.06	6.32
	total rate	13.04	12.99
PPL Utilities Corp.	generation	6.20	6.42
	transmission	1.45	1.62
	delivery	6.04	6.31
	total rate	13.69	14.35
UGI Utilities, Inc.	generation	6.98	6.41
	transmission	0.37	0.38
	delivery	3.85	4.12
	total rate	11.20	10.91

Average Rates
(in cents/kilowatthour)

Residential Average Rates

		12 Months Ending 12/31	
		2016	2017
West Penn Power Company	generation	6.66	6.40
	delivery	4.46	5.22
	total rate	11.12	11.62

Average For Pennsylvania

generation		6.80	6.45
transmission		1.06	1.12
delivery		5.85	6.48
ctc		0.18	0.11
total rate		13.28	13.61
total for all utilities (IOUs, munis, coops, etc.)		13.87	

Average For Mid-Atlantic

generation		8.20	8.32
transmission		0.94	0.99
delivery		6.13	6.34
ctc		0.17	0.12
total rate		15.59	15.89
total for all utilities (IOUs, munis, coops, etc.)		15.62	

Average Rates
(in cents/kilowatthour)

Residential Average Rates

12 Months Ending 12/31

2016 2017

East North Central

Illinois

Ameren Illinois Rate Zone I (formerly CIPS)			
	generation	5.60	5.24
	delivery	5.67	5.54
	total rate	11.27	10.77
Ameren Illinois Rate Zone II (formerly CILCO)			
	generation	5.63	5.28
	delivery	5.81	5.68
	total rate	11.44	10.95
Ameren Illinois Rate Zone III (formerly IP)			
	generation	5.66	5.27
	delivery	6.16	6.05
	total rate	11.82	11.33
Commonwealth Edison Company			
	generation	6.27	6.57
	delivery	6.02	6.49
	total rate	12.29	13.06
Commonwealth Edison Company - Unbundled			
	delivery	5.49	6.04
MidAmerican Energy			
	total rate	10.66	11.17
MidAmerican Energy Company (Delivery Service)			
	delivery	5.38	5.37
Average For Illinois			
	generation	6.12	6.29
	delivery	5.83	6.17
	total rate	12.01	12.38
	total for all utilities (IOUs, munis, coops, etc.)	12.55	

Average Rates
(in cents/kilowatthour)

Residential Average Rates

		12 Months Ending 12/31	
		2016	2017
Indiana			
<hr/>			
AEP (Indiana Michigan Power)	total rate	11.37	11.81
Duke Energy Indiana	total rate	11.02	11.64
Indianapolis Power & Light Company	total rate	10.34	11.08
Northern Indiana Public Service Company	total rate	13.01	14.44
Southern Indiana Gas & Electric Company	total rate	15.06	15.18
<hr/>			
Average For Indiana			
	total rate	11.49	12.19
	total for all utilities (IOUs, munis, coops, etc.)	11.79	

Average Rates
(in cents/kilowatthour)

Residential Average Rates

		12 Months Ending 12/31	
		2016	2017
Michigan			
<hr/>			
AEP (Indiana Michigan Power combined MI rate areas)			
	generation	7.68	8.06
	delivery	3.14	3.22
	total rate	10.82	11.28
Consumers Energy			
	total rate	15.36	15.83
DTE Electric Company			
	total rate	15.60	15.52
Northern States Power Company (WI)			
	total rate	12.27	12.61
Upper Peninsula Power Company			
	total rate		24.50
We Energies (formerly Wisconsin Electric)			
	total rate	15.98	15.71
Wisconsin Public Service Corporation			
	total rate	11.38	12.67
<hr/>			
Average For Michigan			
	generation	7.68	8.06
	delivery	3.14	3.22
	total rate	15.30	15.54
	total for all utilities (IOUs, munis, coops, etc.)	15.20	

Average Rates

(in cents/kilowatthour)

Residential Average Rates

		12 Months Ending 12/31	
		2016	2017
Ohio			
<hr/>			
AEP (Columbus Southern Power Rate Area)			
	generation	6.34	6.16
	transmission	1.34	1.50
	delivery	5.69	5.01
	total rate	13.37	12.67
AEP (Ohio Power Rate Area)			
	generation	6.93	6.76
	transmission	1.34	1.50
	delivery	5.62	5.01
	total rate	13.89	13.27
Cleveland Electric Illuminating Company			
	generation	6.46	5.75
	transmission	0.99	1.31
	delivery	4.32	5.10
	total rate	11.98	12.16
Dayton Power & Light Company			
	generation	6.49	5.31
	transmission	0.48	0.52
	delivery	4.63	3.75
	total rate	11.60	9.58
Duke Energy Ohio			
	generation	6.22	5.92
	transmission	0.54	0.67
	delivery	5.06	5.08
	total rate	11.82	11.67
Ohio Edison Company			
	generation	6.19	5.44
	transmission	0.93	1.29
	delivery	4.30	4.98
	total rate	11.40	11.71
Toledo Edison Company			
	generation	6.18	5.50
	transmission	0.93	1.28
	delivery	4.85	5.51
	total rate	12.00	12.29

Average Rates
(in cents/kilowatthour)

Residential Average Rates

		12 Months Ending 12/31	
		2016	2017
<hr/>			
Average For Ohio			
	generation	6.45	5.98
	transmission	1.02	1.26
	delivery	4.92	4.89
	total rate	12.45	12.02
	total for all utilities (IOUs, munis, coops, etc.)	12.46	
<hr/>			
Wisconsin			
<hr/>			
	Madison Gas & Electric Company		
	total rate	16.50	17.16
	Northern States Power Company (WI)		
	total rate	13.33	13.75
	Northwestern Wisconsin Electric Company		
	total rate	13.14	13.27
	Superior Water, Light & Power Company		
	total rate	11.30	12.00
	We Energies (formerly Wisconsin Electric)		
	total rate	15.27	15.41
	Wisconsin Public Service Corporation		
	total rate	13.22	13.22
	WP&L		
	total rate	13.20	13.86
<hr/>			
Average For Wisconsin			
	total rate	14.33	14.60
	total for all utilities (IOUs, munis, coops, etc.)	14.04	
<hr/>			
Average For East North Central			
	generation	6.33	6.19
	transmission	1.02	1.26
	delivery	5.34	5.49
	total rate	13.12	13.30
	total for all utilities (IOUs, munis, coops, etc.)	13.05	

Average Rates
(in cents/kilowatthour)

Residential Average Rates

12 Months Ending 12/31

2016 2017

South Atlantic

Delaware

Delmarva Power

generation	7.88	8.41
transmission	1.02	1.18
delivery	4.68	4.31
total rate	13.59	13.90

Average For Delaware

generation	7.88	8.41
transmission	1.02	1.18
delivery	4.68	4.31
total rate	13.59	13.90

total for all utilities (IOUs, munis, coops, etc.) 13.42

District of Columbia

Potomac Electric Power Company

generation	7.48	7.32
transmission	0.58	0.57
delivery	4.17	4.30
total rate	12.23	12.19

Average For District of Columbia

generation	7.48	7.32
transmission	0.58	0.57
delivery	4.17	4.30
total rate	12.23	12.19

total for all utilities (IOUs, munis, coops, etc.) 12.29

Average Rates
(in cents/kilowatthour)

Residential Average Rates

		12 Months Ending 12/31	
		2016	2017
Florida			
<hr/>			
Duke Energy Florida	total rate	11.91	12.54
Florida Power & Light Company	total rate	10.22	11.23
Florida Public Utilities Company	total rate	15.31	15.13
Gulf Power Company	total rate	13.36	13.47
Tampa Electric Company	total rate	11.27	11.14
<hr/>			
Average For Florida			
	total rate	10.88	11.64
	total for all utilities (IOUs, munis, coops, etc.)	10.98	
Georgia			
<hr/>			
Georgia Power Company	total rate	12.10	12.10
<hr/>			
Average For Georgia			
	total rate	12.10	12.10
	total for all utilities (IOUs, munis, coops, etc.)	11.50	

Average Rates
(in cents/kilowatthour)

Residential Average Rates

		12 Months Ending 12/31	
		2016	2017
Maryland			
<hr/>			
Baltimore Gas & Electric Company	generation	8.54	7.71
	transmission	0.95	1.10
	delivery	5.15	5.06
	total rate	14.63	13.86
Delmarva Power	generation	8.08	8.04
	transmission	0.90	0.88
	delivery	6.15	5.99
	total rate	15.14	14.92
Potomac Edison Company	generation	6.76	6.62
	transmission	0.40	0.40
	delivery	3.98	4.05
	total rate	11.14	11.07
Potomac Electric Power Company	generation	8.08	7.50
	transmission	0.71	0.66
	delivery	5.87	6.53
	total rate	14.66	14.69
<hr/>			
Average For Maryland	generation	8.11	7.52
	transmission	0.80	0.86
	delivery	5.26	5.36
	total rate	14.18	13.75
	total for all utilities (IOUs, munis, coops, etc.)	14.22	

Average Rates
(in cents/kilowatthour)

Residential Average Rates

		12 Months Ending 12/31	
		2016	2017
North Carolina			
<hr/>			
Dominion North Carolina Power	total rate	10.47	10.86
Duke Energy Carolinas	total rate	10.36	10.19
Duke Energy Progress, Inc.	total rate	10.78	10.37
<hr/>			
Average For North Carolina			
	total rate	10.54	10.29
	total for all utilities (IOUs, munis, coops, etc.)	11.05	
South Carolina			
<hr/>			
Duke Energy Carolinas	total rate	10.93	10.59
Duke Energy Progress, Inc.	total rate	10.01	11.20
South Carolina Electric & Gas Company	total rate	14.70	14.89
<hr/>			
Average For South Carolina			
	total rate	12.61	12.74
	total for all utilities (IOUs, munis, coops, etc.)	12.65	

Average Rates
(in cents/kilowatthour)

Residential Average Rates

		12 Months Ending 12/31	
		2016	2017
Virginia			
<hr/>			
AEP (Appalachian Power Rate Area)			
	generation	6.87	6.88
	transmission	1.82	1.86
	delivery	2.66	2.70
	total rate	11.34	11.44
Dominion Virginia Power			
	total rate	11.19	11.32
Old Dominion Power Company			
	total rate	10.05	10.43
<hr/>			
Average For Virginia			
	generation	6.87	6.88
	transmission	1.82	1.86
	delivery	2.66	2.70
	total rate	11.20	11.33
	total for all utilities (IOUs, munis, coops, etc.)	11.35	
<hr/>			
West Virginia			
<hr/>			
AEP (Appalachian Power Rate Area)			
	total rate	11.36	12.03
AEP (Wheeling Power Rate Area)			
	total rate	11.66	12.33
Monongahela Power Company			
	total rate	11.08	11.42
Potomac Edison Company			
	total rate	10.36	11.21
<hr/>			
Average For West Virginia			
	total rate	11.12	11.70
	total for all utilities (IOUs, munis, coops, etc.)	11.48	

Average Rates
(in cents/kilowatthour)

Residential Average Rates

		12 Months Ending 12/31	
		2016	2017
<hr/>			
Average For South Atlantic			
	generation	7.79	7.46
	transmission	1.02	1.08
	delivery	4.68	4.73
	total rate	11.45	11.72
	total for all utilities (IOUs, munis, coops, etc.)	11.57	
<hr/>			
East South Central			
<hr/>			
Alabama			
<hr/>			
	Alabama Power Company		
	total rate	12.66	13.37
<hr/>			
Average For Alabama			
	total rate	12.66	13.37
	total for all utilities (IOUs, munis, coops, etc.)	11.98	
<hr/>			
Kentucky			
<hr/>			
	AEP (Kentucky Power Rate Area)		
	total rate	11.92	12.02
	Duke Energy Kentucky		
	total rate	8.86	8.61
	Kentucky Utilities Company		
	total rate	9.87	10.29
	Louisville Gas & Electric Company		
	total rate	10.41	10.90
<hr/>			
Average For Kentucky			
	total rate	10.24	10.56
	total for all utilities (IOUs, munis, coops, etc.)	10.49	

Average Rates
(in cents/kilowatthour)

Residential Average Rates

		12 Months Ending 12/31	
		2016	2017
Mississippi			
<hr/>			
Entergy Mississippi, Inc.	total rate	8.16	9.46
Mississippi Power Company	total rate	12.70	13.24
<hr/>			
Average For Mississippi			
	total rate	9.38	10.48
total for all utilities (IOUs, munis, coops, etc.)		10.47	
Tennessee			
<hr/>			
AEP (Kingsport Power Rate Area)	total rate	8.49	9.18
<hr/>			
Average For Tennessee			
	total rate	8.49	9.18
total for all utilities (IOUs, munis, coops, etc.)		10.41	
<hr/>			
Average For East South Central			
	total rate	11.14	11.79
total for all utilities (IOUs, munis, coops, etc.)		10.86	

Average Rates
(in cents/kilowatthour)

Residential Average Rates

		12 Months Ending 12/31	
		2016	2017
Hawaii			
<hr/>			
Hawaii			
<hr/>			
Hawaii Electric Light Company	total rate	31.52	34.20
Hawaiian Electric Company	total rate	26.07	28.22
Maui Electric Company (Lanai)	total rate	33.52	35.87
Maui Electric Company (Maui)	total rate	28.49	30.64
Maui Electric Company (Molokai)	total rate	32.70	35.57
<hr/>			
Average For Hawaii			
	total rate	27.38	29.64
	total for all utilities (IOUs, munis, coops, etc.)	27.47	
<hr/>			
Average For Hawaii			
	total rate	27.38	29.64
	total for all utilities (IOUs, munis, coops, etc.)	27.47	
<hr/>			
Average For USA			
	generation	7.65	7.69
	transmission	1.44	1.59
	delivery	5.83	6.02
	ctc	0.25	0.12
	total rate	12.93	13.28
	total for all utilities (IOUs, munis, coops, etc.)	12.54	

Average Rates
(in cents/kilowatthour)

Commercial Average Rates

12 Months Ending 12/31

2016 2017

Mid-Atlantic

New Jersey

Atlantic City Electric Company			
	generation	12.81	11.69
	transmission	0.97	0.83
	delivery	4.54	4.60
	total rate	18.32	17.13
Jersey Central Power & Light Company			
	generation	8.16	8.02
	transmission	0.45	0.45
	delivery	2.92	3.61
	ctc	0.41	0.32
	total rate	11.94	12.40
Public Service Electric & Gas Company			
	generation	9.99	9.84
	delivery	3.08	3.05
	ctc	0.00	-0.01
	total rate	13.07	12.88
Rockland Electric Company			
	total rate	14.92	14.85

Average For New Jersey

	generation	9.88	9.65
	transmission	0.61	0.58
	delivery	3.20	3.36
	ctc	0.11	0.08
	total rate	13.37	13.24
	total for all utilities (IOUs, munis, coops, etc.)	12.27	

Average Rates
(in cents/kilowatthour)

Commercial Average Rates

		12 Months Ending 12/31	
		2016	2017
New York			
<hr/>			
Central Hudson Gas & Electric Corporation			
	total rate	12.60	12.77
Consolidated Edison Company of New York			
	total rate	19.13	19.73
LIPA			
	generation	6.55	9.34
	delivery	8.98	7.38
	total rate	15.53	16.72
National Grid (Niagara Mohawk Power Corporation)			
	total rate	9.20	9.52
New York State Electric & Gas Corporation			
	total rate	10.43	10.37
Orange & Rockland Utilities, Inc.			
	total rate	14.78	14.78
Rochester Gas & Electric Corporation			
	total rate	11.99	12.42
<hr/>			
Average For New York			
	generation	6.55	9.34
	delivery	8.98	7.38
	total rate	15.72	16.38
	total for all utilities (IOUs, munis, coops, etc.)	14.42	

Average Rates

(in cents/kilowatthour)

Commercial Average Rates

		12 Months Ending 12/31	
		2016	2017
Pennsylvania			
<hr/>			
Duquesne Light Company	generation	5.34	5.28
	transmission	0.86	1.15
	delivery	2.72	2.76
	total rate	8.91	9.19
Metropolitan Edison Company	generation	7.51	6.65
	delivery	2.62	2.96
	ctc	0.10	0.01
	total rate	10.23	9.62
PECO Energy	generation	6.94	5.92
	transmission	0.62	0.54
	delivery	3.19	3.03
	total rate	10.75	9.49
Pennsylvania Electric Company	generation	7.24	6.44
	delivery	2.80	3.24
	ctc	0.30	0.27
	total rate	10.34	9.95
Pennsylvania Power Company	generation	8.62	7.38
	delivery	1.60	1.97
	total rate	10.22	9.35
PPL Utilities Corp.	generation	5.98	5.83
	transmission	1.05	1.49
	delivery	2.13	2.17
	total rate	9.16	9.49
UGI Utilities, Inc.	generation	6.63	6.11
	transmission	0.24	0.24
	delivery	3.13	3.27
	total rate	10.00	9.62

Average Rates
(in cents/kilowatthour)

Commercial Average Rates

		12 Months Ending 12/31	
		2016	2017
West Penn Power Company	generation	7.71	7.04
	delivery	1.97	2.11
	total rate	9.68	9.15

Average For Pennsylvania

generation	6.87	6.18
transmission	0.78	0.94
delivery	2.42	2.56
ctc	0.21	0.14
total rate	9.74	9.45
total for all utilities (IOUs, munis, coops, etc.)	9.25	

Average For Mid-Atlantic

generation	7.97	8.56
transmission	0.71	0.78
delivery	3.57	3.50
ctc	0.13	0.09
total rate	13.50	13.65
total for all utilities (IOUs, munis, coops, etc.)	12.48	

Average Rates
(in cents/kilowatthour)

Commercial Average Rates

12 Months Ending 12/31

2016 2017

East North Central

Illinois

Ameren Illinois Rate Zone I (formerly CIPS)

generation	5.72	5.28
delivery	3.04	3.14
total rate	8.76	8.42

Ameren Illinois Rate Zone II (formerly CILCO)

generation	5.98	5.58
delivery	3.14	3.17
total rate	9.12	8.75

Ameren Illinois Rate Zone III (formerly IP)

generation	5.79	5.45
delivery	2.96	3.12
total rate	8.75	8.57

Commonwealth Edison Company

generation	5.58	5.85
delivery	3.48	3.68
total rate	9.06	9.53

Commonwealth Edison Company - Unbundled

delivery	2.51	2.63
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MidAmerican Energy

total rate	7.62	8.21
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MidAmerican Energy Company (Delivery Service)

delivery	2.45	2.27
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Average For Illinois

generation	5.63	5.74
delivery	2.82	2.96
total rate	8.89	9.06

total for all utilities (IOUs, munis, coops, etc.)	9.04	
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Average Rates
(in cents/kilowatthour)

Commercial Average Rates

		12 Months Ending 12/31	
		2016	2017
Indiana			
<hr/>			
AEP (Indiana Michigan Power)	total rate	8.67	8.99
Duke Energy Indiana	total rate	9.06	9.63
Indianapolis Power & Light Company	total rate	10.97	11.48
Northern Indiana Public Service Company	total rate	11.77	13.21
Southern Indiana Gas & Electric Company	total rate	12.18	12.41
<hr/>			
Average For Indiana			
	total rate	10.00	10.68
	total for all utilities (IOUs, munis, coops, etc.)	10.04	

Average Rates
(in cents/kilowatthour)

Commercial Average Rates

		12 Months Ending 12/31	
		2016	2017
Michigan			
<hr/>			
AEP (Indiana Michigan Power combined MI rate areas)			
	generation	7.56	8.07
	delivery	2.02	2.03
	total rate	9.58	10.10
Consumers Energy			
	total rate	12.14	12.68
DTE Electric Company			
	total rate	10.01	10.17
Northern States Power Company (WI)			
	total rate	11.04	10.85
Upper Peninsula Power Company			
	total rate		18.04
We Energies (formerly Wisconsin Electric)			
	total rate	14.51	14.57
Wisconsin Public Service Corporation			
	total rate	11.47	12.69
<hr/>			
Average For Michigan			
	generation	7.56	8.07
	delivery	2.02	2.03
	total rate	10.82	11.20
	total for all utilities (IOUs, munis, coops, etc.)	10.64	

Average Rates

(in cents/kilowatthour)

Commercial Average Rates

		12 Months Ending 12/31	
		2016	2017
Ohio			
<hr/>			
AEP (Columbus Southern Power Rate Area)			
	generation	5.87	6.25
	transmission	1.08	1.05
	delivery	2.82	2.24
	total rate	9.77	9.54
AEP (Ohio Power Rate Area)			
	generation	6.43	6.81
	transmission	1.18	1.16
	delivery	3.64	3.06
	total rate	11.25	11.03
Cleveland Electric Illuminating Company			
	generation	6.97	5.93
	transmission	1.07	1.15
	delivery	3.32	4.04
	total rate	14.78	11.12
Dayton Power & Light Company			
	generation	6.82	5.86
	transmission	0.58	0.52
	delivery	2.81	2.03
	total rate	10.21	8.41
Duke Energy Ohio			
	generation	6.21	5.70
	transmission	0.48	0.56
	delivery	3.55	3.39
	total rate	10.24	9.66
Ohio Edison Company			
	generation	6.88	5.92
	transmission	1.07	1.19
	delivery	2.66	3.37
	total rate	12.16	10.49
Toledo Edison Company			
	generation	6.65	5.75
	transmission	1.06	1.17
	delivery	3.83	4.12
	total rate	12.37	11.04

Average Rates
(in cents/kilowatthour)

Commercial Average Rates

		12 Months Ending 12/31	
		2016	2017
<hr/>			
Average For Ohio			
	generation	6.40	6.21
	transmission	1.06	1.10
	delivery	3.09	3.06
	total rate	11.39	10.31
	total for all utilities (IOUs, munis, coops, etc.)	9.98	
<hr/>			
Wisconsin			
<hr/>			
Madison Gas & Electric Company			
	total rate	11.42	11.85
Northern States Power Company (WI)			
	total rate	10.03	10.33
Northwestern Wisconsin Electric Company			
	total rate	13.39	13.39
Superior Water, Light & Power Company			
	total rate	8.85	9.43
We Energies (formerly Wisconsin Electric)			
	total rate	11.60	11.64
Wisconsin Public Service Corporation			
	total rate	9.32	9.32
WP&L			
	total rate	11.20	11.22
<hr/>			
Average For Wisconsin			
	total rate	10.85	10.95
	total for all utilities (IOUs, munis, coops, etc.)	10.77	
<hr/>			
Average For East North Central			
	generation	6.00	6.02
	transmission	1.06	1.10
	delivery	2.93	2.99
	total rate	10.48	10.59
	total for all utilities (IOUs, munis, coops, etc.)	9.97	

Average Rates
(in cents/kilowatthour)

Commercial Average Rates

12 Months Ending 12/31

2016 2017

South Atlantic

Delaware

Delmarva Power			
	generation	7.16	6.46
	transmission	0.75	0.73
	delivery	2.51	2.63
	total rate	10.42	9.82

Average For Delaware

	generation	7.16	6.46
	transmission	0.75	0.73
	delivery	2.51	2.63
	total rate	10.42	9.82
total for all utilities (IOUs, munis, coops, etc.)		10.09	

District of Columbia

Potomac Electric Power Company			
	generation	7.44	6.99
	transmission	0.52	0.49
	delivery	4.21	4.47
	total rate	12.17	11.95

Average For District of Columbia

	generation	7.44	6.99
	transmission	0.52	0.49
	delivery	4.21	4.47
	total rate	12.17	11.95
total for all utilities (IOUs, munis, coops, etc.)		11.72	

Average Rates
(in cents/kilowatthour)

Commercial Average Rates

		12 Months Ending 12/31	
		2016	2017
Florida			
<hr/>			
Duke Energy Florida	total rate	8.80	9.44
Florida Power & Light Company	total rate	8.19	8.90
Florida Public Utilities Company	total rate	13.38	13.35
Gulf Power Company	total rate	10.55	10.50
Tampa Electric Company	total rate	9.40	9.08
<hr/>			
Average For Florida			
	total rate	8.56	9.11
	total for all utilities (IOUs, munis, coops, etc.)	8.91	
Georgia			
<hr/>			
Georgia Power Company	total rate	9.40	9.40
<hr/>			
Average For Georgia			
	total rate	9.40	9.40
	total for all utilities (IOUs, munis, coops, etc.)	9.83	

Average Rates

(in cents/kilowatthour)

Commercial Average Rates

		12 Months Ending 12/31	
		2016	2017
Maryland			
<hr/>			
Baltimore Gas & Electric Company	generation	7.33	6.35
	transmission	0.64	0.75
	delivery	3.10	3.19
	total rate	11.07	10.29
Delmarva Power	generation	7.05	7.53
	transmission	0.71	0.71
	delivery	4.14	4.55
	total rate	11.91	12.79
Potomac Edison Company	generation	6.30	6.95
	transmission	0.32	0.33
	delivery	3.10	3.16
	total rate	9.72	10.44
Potomac Electric Power Company	generation	7.16	6.71
	transmission	0.48	0.45
	delivery	4.22	4.45
	total rate	11.86	11.61
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Average For Maryland			
	generation	7.15	6.61
	transmission	0.57	0.62
	delivery	3.47	3.62
	total rate	11.25	10.87
	total for all utilities (IOUs, munis, coops, etc.)	10.99	

Average Rates
(in cents/kilowatthour)

Commercial Average Rates

		12 Months Ending 12/31	
		2016	2017
North Carolina			
<hr/>			
Dominion North Carolina Power	total rate	8.72	8.55
Duke Energy Carolinas	total rate	7.81	7.64
Duke Energy Progress, Inc.	total rate	8.80	8.36
<hr/>			
Average For North Carolina			
	total rate	8.16	7.90
	total for all utilities (IOUs, munis, coops, etc.)	8.64	
South Carolina			
<hr/>			
Duke Energy Carolinas	total rate	8.54	8.43
Duke Energy Progress, Inc.	total rate	8.79	9.46
South Carolina Electric & Gas Company	total rate	11.39	11.50
<hr/>			
Average For South Carolina			
	total rate	10.04	10.14
	total for all utilities (IOUs, munis, coops, etc.)	10.28	

Average Rates

(in cents/kilowatthour)

Commercial Average Rates

		12 Months Ending 12/31	
		2016	2017
Virginia			
<hr/>			
AEP (Appalachian Power Rate Area)			
	generation	5.86	5.89
	transmission	1.33	1.37
	delivery	1.73	1.75
	total rate	8.92	9.01
Dominion Virginia Power			
	total rate	7.60	7.55
Old Dominion Power Company			
	total rate	9.35	9.71
<hr/>			
Average For Virginia			
	generation	5.86	5.89
	transmission	1.33	1.37
	delivery	1.73	1.75
	total rate	7.74	7.69
	total for all utilities (IOUs, munis, coops, etc.)	7.94	
<hr/>			
West Virginia			
<hr/>			
AEP (Appalachian Power Rate Area)			
	total rate	9.05	9.26
AEP (Wheeling Power Rate Area)			
	total rate	8.97	9.19
Monongahela Power Company			
	total rate	9.40	9.65
Potomac Edison Company			
	total rate	9.12	10.20
<hr/>			
Average For West Virginia			
	total rate	9.18	9.51
	total for all utilities (IOUs, munis, coops, etc.)	9.37	

Average Rates
(in cents/kilowatthour)

Commercial Average Rates

		12 Months Ending 12/31	
		2016	2017
<hr/>			
Average For South Atlantic			
	generation	6.79	6.42
	transmission	0.81	0.85
	delivery	3.41	3.57
	total rate	8.85	8.97
	total for all utilities (IOUs, munis, coops, etc.)	9.25	
East South Central			
<hr/>			
Alabama			
<hr/>			
	Alabama Power Company		
	total rate	11.55	12.12
<hr/>			
Average For Alabama			
	total rate	11.55	12.12
	total for all utilities (IOUs, munis, coops, etc.)	11.11	
Kentucky			
<hr/>			
	AEP (Kentucky Power Rate Area)		
	total rate	11.89	12.10
	Duke Energy Kentucky		
	total rate	7.70	7.36
	Kentucky Utilities Company		
	total rate	9.71	10.13
	Louisville Gas & Electric Company		
	total rate	9.46	9.77
<hr/>			
Average For Kentucky			
	total rate	9.60	9.84
	total for all utilities (IOUs, munis, coops, etc.)	9.58	

Average Rates
(in cents/kilowatthour)

Commercial Average Rates

		12 Months Ending 12/31	
		2016	2017
Mississippi			
<hr/>			
Entergy Mississippi, Inc.	total rate	7.65	8.84
Mississippi Power Company	total rate	9.82	10.32
<hr/>			
Average For Mississippi			
	total rate	8.45	9.38
	total for all utilities (IOUs, munis, coops, etc.)	9.58	
Tennessee			
<hr/>			
AEP (Kingsport Power Rate Area)	total rate	8.57	9.68
<hr/>			
Average For Tennessee			
	total rate	8.57	9.68
	total for all utilities (IOUs, munis, coops, etc.)	10.19	
<hr/>			
Average For East South Central			
	total rate	10.15	10.70
	total for all utilities (IOUs, munis, coops, etc.)	10.20	

Average Rates
(in cents/kilowatthour)

Commercial Average Rates

		12 Months Ending 12/31	
		2016	2017
Hawaii			
<hr/>			
Hawaii			
<hr/>			
Hawaii Electric Light Company	total rate	29.57	32.29
Hawaiian Electric Company	total rate	22.70	25.00
Maui Electric Company (Lanai)	total rate	36.32	39.02
Maui Electric Company (Maui)	total rate	28.39	30.42
Maui Electric Company (Molokai)	total rate	33.91	37.04
<hr/>			
Average For Hawaii			
	total rate	24.44	26.74
	total for all utilities (IOUs, munis, coops, etc.)	24.64	
<hr/>			
Average For Hawaii			
	total rate	24.44	26.74
	total for all utilities (IOUs, munis, coops, etc.)	24.64	
<hr/>			
Average For USA			
	generation	7.00	7.36
	transmission	1.44	1.44
	delivery	3.70	3.76
	ctc	0.30	0.21
	total rate	10.60	10.82
	total for all utilities (IOUs, munis, coops, etc.)	10.44	

Average Rates
(in cents/kilowatthour)

Industrial Average Rates

12 Months Ending 12/31

2016 2017

Mid-Atlantic

New Jersey

Atlantic City Electric Company	generation	20.63	16.42
	transmission	1.13	0.94
	delivery	3.13	2.98
	total rate	24.90	20.34
Jersey Central Power & Light Company	generation	6.61	6.13
	transmission	0.40	0.35
	delivery	2.12	2.56
	ctc	0.36	0.29
	total rate	9.48	9.33
Public Service Electric & Gas Company	generation	8.42	7.93
	delivery	2.31	2.23
	ctc	0.00	-0.01
	total rate	10.73	10.15
Rockland Electric Company	total rate	14.82	14.08

Average For New Jersey

	generation	8.91	8.10
	transmission	0.59	0.49
	delivery	2.33	2.42
	ctc	0.13	0.10
	total rate	11.27	10.60
	total for all utilities (IOUs, munis, coops, etc.)	10.17	

Average Rates
(in cents/kilowatthour)

Industrial Average Rates

		12 Months Ending 12/31	
		2016	2017
New York			
<hr/>			
Central Hudson Gas & Electric Corporation			
	total rate	9.86	10.52
Consolidated Edison Company of New York			
	total rate	16.68	17.18
National Grid (Niagara Mohawk Power Corporation)			
	total rate	5.05	5.57
New York State Electric & Gas Corporation			
	total rate	6.39	6.57
Orange & Rockland Utilities, Inc.			
	total rate	8.36	7.24
Rochester Gas & Electric Corporation			
	total rate	9.82	10.90
<hr/>			
Average For New York			
	total rate	6.39	6.76
	total for all utilities (IOUs, munis, coops, etc.)	5.99	

Average Rates
(in cents/kilowatthour)

Industrial Average Rates

		12 Months Ending 12/31	
		2016	2017
Pennsylvania			
<hr/>			
Duquesne Light Company	generation	4.99	5.21
	transmission	0.77	1.16
	delivery	1.43	1.33
	total rate	7.18	7.70
Metropolitan Edison Company	generation	5.84	6.77
	delivery	0.90	1.00
	ctc	0.10	0.01
	total rate	6.84	7.78
PECO Energy	generation	4.87	4.73
	transmission	0.48	0.26
	delivery	1.61	1.75
	total rate	6.96	6.74
Pennsylvania Electric Company	generation	6.39	7.13
	delivery	1.04	1.16
	ctc	0.26	0.25
	total rate	7.69	8.54
Pennsylvania Power Company	generation	4.21	7.43
	delivery	0.37	0.41
	total rate	4.58	7.84
PPL Utilities Corp.	generation	4.10	3.82
	transmission	0.83	1.05
	delivery	0.32	0.37
	total rate	5.25	5.24
UGI Utilities, Inc.	generation	5.99	5.62
	transmission	0.22	0.22
	delivery	2.08	2.24
	total rate	8.29	8.08

Average Rates
(in cents/kilowatthour)

Industrial Average Rates

		12 Months Ending 12/31	
		2016	2017
West Penn Power Company	generation	4.69	2.69
	delivery	0.56	0.61
	total rate	5.25	3.30

Average For Pennsylvania

generation		4.95	4.37
transmission		0.59	0.55
delivery		0.70	0.76
ctc		0.18	0.12
total rate		6.38	5.94
total for all utilities (IOUs, munis, coops, etc.)		6.94	

Average For Mid-Atlantic

generation		6.54	6.00
transmission		0.59	0.53
delivery		0.97	1.03
ctc		0.16	0.11
total rate		7.64	7.28
total for all utilities (IOUs, munis, coops, etc.)		7.03	

Average Rates
(in cents/kilowatthour)

Industrial Average Rates

12 Months Ending 12/31

2016 2017

East North Central

Illinois

Ameren Illinois Rate Zone I (formerly CIPS)			
	delivery	0.63	0.77
Ameren Illinois Rate Zone II (formerly CILCO)			
	delivery	0.56	0.69
Ameren Illinois Rate Zone III (formerly IP)			
	delivery	0.60	0.77
Commonwealth Edison Company			
	generation	3.93	4.31
	delivery	1.35	1.42
	total rate	5.28	5.73
Commonwealth Edison Company - Unbundled			
	delivery	1.49	1.52
MidAmerican Energy			
	total rate	5.52	5.82
MidAmerican Energy Company (Delivery Service)			
	delivery	1.93	1.86

Average For Illinois

	generation	3.93	4.31
	delivery	1.22	1.29
	total rate	5.36	5.76
total for all utilities (IOUs, munis, coops, etc.)		6.53	

Average Rates
(in cents/kilowatthour)

Industrial Average Rates

		12 Months Ending 12/31	
		2016	2017
Indiana			
<hr/>			
AEP (Indiana Michigan Power)	total rate	6.36	6.49
Duke Energy Indiana	total rate	6.89	7.27
Indianapolis Power & Light Company	total rate	8.28	8.73
Northern Indiana Public Service Company	total rate	6.80	7.37
Southern Indiana Gas & Electric Company	total rate	7.33	7.85
<hr/>			
Average For Indiana			
	total rate	7.05	7.45
	total for all utilities (IOUs, munis, coops, etc.)	6.99	

Average Rates
(in cents/kilowatthour)

Industrial Average Rates

		12 Months Ending 12/31	
		2016	2017
Michigan			
<hr/>			
AEP (Indiana Michigan Power combined MI rate areas)			
	generation	7.16	7.38
	delivery	0.99	1.08
	total rate	8.15	8.46
Consumers Energy			
	total rate	8.13	8.17
DTE Electric Company			
	total rate	6.54	6.74
Northern States Power Company (WI)			
	total rate	6.92	8.48
Upper Peninsula Power Company			
	total rate		6.78
We Energies (formerly Wisconsin Electric)			
	total rate	5.76	5.94
Wisconsin Public Service Corporation			
	total rate	6.55	6.16
<hr/>			
Average For Michigan			
	generation	7.16	7.38
	delivery	0.99	1.08
	total rate	7.21	7.34
	total for all utilities (IOUs, munis, coops, etc.)	6.93	

Average Rates

(in cents/kilowatthour)

Industrial Average Rates

		12 Months Ending 12/31	
		2016	2017
Ohio			
<hr/>			
AEP (Columbus Southern Power Rate Area)			
	generation	5.86	6.17
	transmission	1.48	0.89
	delivery	1.40	1.07
	total rate	8.74	8.13
AEP (Ohio Power Rate Area)			
	generation	5.76	6.30
	transmission	1.03	0.79
	delivery	1.09	0.74
	total rate	7.88	7.83
Cleveland Electric Illuminating Company			
	generation	5.13	3.77
	transmission	0.65	0.63
	delivery	0.45	0.84
	total rate	6.66	5.24
Dayton Power & Light Company			
	generation	6.37	5.51
	transmission	0.51	0.45
	delivery	1.52	0.90
	total rate	8.40	6.86
Duke Energy Ohio			
	generation	4.77	4.87
	transmission	0.05	0.64
	delivery	2.80	3.86
	total rate	8.07	9.37
Ohio Edison Company			
	generation	5.25	5.43
	transmission	0.69	0.71
	delivery	0.50	0.92
	total rate	6.30	7.07
Toledo Edison Company			
	generation	4.40	5.77
	transmission	0.71	0.72
	delivery	0.23	0.59
	total rate	3.78	7.09

Average Rates

(in cents/kilowatthour)

Industrial Average Rates

		12 Months Ending 12/31	
		2016	2017
<hr/>			
Average For Ohio			
	generation	5.35	5.86
	transmission	0.78	0.74
	delivery	0.81	0.82
	total rate	6.74	7.10
	total for all utilities (IOUs, munis, coops, etc.)	7.00	
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Wisconsin			
<hr/>			
Madison Gas & Electric Company			
	total rate	7.55	8.23
Northern States Power Company (WI)			
	total rate	7.59	7.74
Northwestern Wisconsin Electric Company			
	total rate	9.24	9.39
Superior Water, Light & Power Company			
	total rate	6.66	7.06
We Energies (formerly Wisconsin Electric)			
	total rate	8.26	8.25
Wisconsin Public Service Corporation			
	total rate	6.00	6.00
WP&L			
	total rate	7.96	7.81
<hr/>			
Average For Wisconsin			
	total rate	7.58	7.57
	total for all utilities (IOUs, munis, coops, etc.)	7.52	
<hr/>			
Average For East North Central			
	generation	5.31	5.77
	transmission	0.78	0.74
	delivery	1.02	1.06
	total rate	7.13	7.38
	total for all utilities (IOUs, munis, coops, etc.)	6.95	

Average Rates
(in cents/kilowatthour)

Industrial Average Rates

12 Months Ending 12/31

2016 2017

South Atlantic

Delaware

Delmarva Power				
	generation	6.46	6.96	
	transmission	0.62	0.57	
	delivery	0.86	0.91	
	total rate	7.94	8.44	

Average For Delaware

	generation	6.46	6.96	
	transmission	0.62	0.57	
	delivery	0.86	0.91	
	total rate	7.94	8.44	
total for all utilities (IOUs, munis, coops, etc.)		8.10		

District of Columbia

Potomac Electric Power Company				
	delivery	1.28	1.28	

Average For District of Columbia

	delivery	1.28	1.28	
total for all utilities (IOUs, munis, coops, etc.)		8.80		

Average Rates
(in cents/kilowatthour)

Industrial Average Rates

		12 Months Ending 12/31	
		2016	2017
Florida			
<hr/>			
Duke Energy Florida	total rate	6.73	7.25
Florida Power & Light Company	total rate	6.11	6.77
Florida Public Utilities Company	total rate	11.78	13.01
Gulf Power Company	total rate	8.22	7.97
Tampa Electric Company	total rate	8.35	7.81
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Average For Florida			
	total rate	7.14	7.36
	total for all utilities (IOUs, munis, coops, etc.)	7.69	
Georgia			
<hr/>			
Georgia Power Company	total rate	5.46	5.46
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Average For Georgia			
	total rate	5.46	5.46
	total for all utilities (IOUs, munis, coops, etc.)	5.85	

Average Rates
(in cents/kilowatthour)

Industrial Average Rates

		12 Months Ending 12/31	
		2016	2017
Maryland			
<hr/>			
Baltimore Gas & Electric Company	generation	7.33	6.35
	transmission	0.64	0.75
	delivery	3.10	3.19
	total rate	11.07	10.29
Delmarva Power	generation	4.99	5.63
	transmission	0.66	0.67
	delivery	2.44	2.49
	total rate	8.10	8.80
Potomac Edison Company	generation	5.76	6.17
	transmission	0.31	0.31
	delivery	1.76	1.83
	total rate	7.83	8.31
Potomac Electric Power Company	delivery	2.29	2.29
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Average For Maryland			
	generation	7.26	6.34
	transmission	0.62	0.73
	delivery	2.96	3.05
	total rate	10.82	10.15
	total for all utilities (IOUs, munis, coops, etc.)	7.90	

Average Rates
(in cents/kilowatthour)

Industrial Average Rates

		12 Months Ending 12/31	
		2016	2017
North Carolina			
<hr/>			
Dominion North Carolina Power	total rate	5.60	5.34
Duke Energy Carolinas	total rate	6.12	5.94
Duke Energy Progress, Inc.	total rate	6.44	6.05
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Average For North Carolina			
	total rate	6.19	5.93
	total for all utilities (IOUs, munis, coops, etc.)	6.32	
South Carolina			
<hr/>			
Duke Energy Carolinas	total rate	5.50	5.10
Duke Energy Progress, Inc.	total rate	5.47	5.80
South Carolina Electric & Gas Company	total rate	7.07	7.20
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Average For South Carolina			
	total rate	6.05	5.93
	total for all utilities (IOUs, munis, coops, etc.)	6.09	

Average Rates
(in cents/kilowatthour)

Industrial Average Rates

		12 Months Ending 12/31	
		2016	2017
Virginia			
<hr/>			
AEP (Appalachian Power Rate Area)			
	generation	5.23	5.17
	transmission	1.02	1.01
	delivery	0.53	0.53
	total rate	6.78	6.71
Dominion Virginia Power			
	total rate	6.00	5.99
Old Dominion Power Company			
	total rate	9.33	8.95
<hr/>			
Average For Virginia			
	generation	5.23	5.17
	transmission	1.02	1.01
	delivery	0.53	0.53
	total rate	6.36	6.33
	total for all utilities (IOUs, munis, coops, etc.)	6.56	
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West Virginia			
<hr/>			
AEP (Appalachian Power Rate Area)			
	total rate	6.66	6.75
AEP (Wheeling Power Rate Area)			
	total rate	5.89	5.88
Monongahela Power Company			
	total rate	6.69	6.86
Potomac Edison Company			
	total rate	6.75	7.68
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Average For West Virginia			
	total rate	6.50	6.65
	total for all utilities (IOUs, munis, coops, etc.)	6.57	

Average Rates
(in cents/kilowatthour)

Industrial Average Rates

		12 Months Ending 12/31	
		2016	2017
<hr/>			
Average For South Atlantic			
	generation	5.98	5.58
	transmission	0.87	0.91
	delivery	2.36	2.41
	total rate	6.48	6.40
	total for all utilities (IOUs, munis, coops, etc.)	6.46	
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East South Central			
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Alabama			
<hr/>			
	Alabama Power Company		
	total rate	6.35	6.51
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Average For Alabama			
	total rate	6.35	6.51
	total for all utilities (IOUs, munis, coops, etc.)	6.07	
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Kentucky			
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	AEP (Kentucky Power Rate Area)		
	total rate	6.65	6.56
	Duke Energy Kentucky		
	total rate	6.61	6.28
	Kentucky Utilities Company		
	total rate	6.13	6.27
	Louisville Gas & Electric Company		
	total rate	6.69	6.83
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Average For Kentucky			
	total rate	6.38	6.44
	total for all utilities (IOUs, munis, coops, etc.)	5.67	

Average Rates
(in cents/kilowatthour)

Industrial Average Rates

		12 Months Ending 12/31	
		2016	2017
Mississippi			
<hr/>			
Entergy Mississippi, Inc.	total rate	5.37	6.25
Mississippi Power Company	total rate	6.36	6.63
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Average For Mississippi			
	total rate	6.03	6.50
	total for all utilities (IOUs, munis, coops, etc.)	5.80	
Tennessee			
<hr/>			
AEP (Kingsport Power Rate Area)	total rate	5.73	6.17
<hr/>			
Average For Tennessee			
	total rate	5.73	6.17
	total for all utilities (IOUs, munis, coops, etc.)	5.68	
Average For East South Central			
	total rate	6.29	6.48
	total for all utilities (IOUs, munis, coops, etc.)	5.82	

ELECTRIC UTILITIES IN KENTUCKY

Residential Rates in Effect **September 2018**

	Name	Investor-Owned / Rural Electric Cooperative	Last Rate Impacting Case Numbers	REC (if applicable)	Customer Charge	Residential Rate per kWh
1	American Electric Power (Kentucky Power)	IO	2017-00179		\$ 14.00	\$ 0.098197 (3)
2	Big Sandy RECC	REC	2017-00374	East Ky.	\$ 21.25	\$ 0.087560
3	Blue Grass Energy Cooperative	REC	2017-00008	East Ky.	\$ 16.50	\$ 0.082810
4	Clark Energy Cooperative, Inc.	REC	2017-00009	East Ky.	\$ 12.43	\$ 0.089920
5	Cumberland Valley Electric, Inc.	REC	2017-00010	East Ky.	\$ 12.00	\$ 0.085000
6	Duke Energy Kentucky, Inc.	IO	2017-00321		\$ 11.00	\$ 0.095357 (4)
7	Farmers RECC	REC	2017-00011	East Ky.	\$ 14.00	\$ 0.086289
8	Fleming-Mason RECC	REC	2017-00012	East Ky.	\$ 15.00	\$ 0.081830
9	Gibson EMC (formerly Hickman-Fulton Counties)	REC		TVA	\$ 23.50	\$ 0.079640
10	Grayson RECC	REC	2017-00013	East Ky.	\$ 15.00	\$ 0.106580
11	Inter-County RECC	REC	2017-00014	East Ky.	\$ 8.97	\$ 0.091710
12	Jackson Energy Coop. Corp.	REC	2017-00015	East Ky.	\$ 16.44	\$ 0.095910
13	Jackson Purchase Energy Corporation	REC	2013-00384	Big Rivers	\$ 12.45	\$ 0.100780
14	Kenergy Corp.	REC	2015-00312	Big Rivers	\$ 18.20	\$ 0.102038
15	Kentucky Utilities Company (Current)	IO	2018-00034		\$ 12.25	\$ 0.090470
16	Kentucky Utilities Company (Proposed)	IO	2018-00294		\$ 16.13	\$ 0.095520
17	Licking Valley RECC	REC	2017-00016	East Ky.	\$ 14.00	\$ 0.092002
18	Louisville Gas and Electric Company (Current)	IO	2018-00034		\$ 12.25	\$ 0.093820
19	Louisville Gas and Electric Company (Proposed)	IO	2018-00295		\$ 16.13	\$ 0.094200
20	Meade County RECC	REC	2013-00231	Big Rivers	\$ 17.40 (2)	\$ 0.097665
21	Nolin RECC	REC	2017-00017	East Ky.	\$ 13.50	\$ 0.090220
22	Owen Electric Cooperative, Inc.	REC	2017-00018	East Ky.	\$ 20.00	\$ 0.082450
23	Pennyrile Electric	REC		TVA	\$ 23.40	\$ 0.073480
24	Salt River Electric Coop. Corp.	REC	2017-00019	East Ky.	\$ 8.84	\$ 0.077040
25	Shelby Energy Cooperative, Inc.	REC	2017-00020	East Ky.	\$ 15.00	\$ 0.088410
26	South Kentucky RECC	REC	2017-00021	East Ky.	\$ 12.82	\$ 0.082940
27	Taylor County RECC	REC	2017-00022	East Ky.	\$ 9.82	\$ 0.079680
28	Tri-County Electric	REC		TVA	\$ 18.00	\$ 0.099000
29	Warren RECC	REC		TVA	\$ 18.80	\$ 0.074900
30	West Kentucky RECC	REC		TVA	\$ 23.40	\$ 0.101100

(1) Typical Bills are based on Customer Charge, Base Rates, FAC, DSM and ECR factors only. No other applicable charges have been included.

(2) Based on Meade County RECC Residential Customer Charge of \$0.572 per Day multiplied by 365 days / 12 months (Per Order dated April 25, 2014 in Case No. 2014-00001)

(3) AEP Rate with combined Energy and Capacity Charge

(4) Fuel Charge imbedded in Base Res Rate is Combined with Res Tariff Rate

KENTUCKY UTILITIES COMPANY

**Response to Commission Staff's Second Request for Information
Dated November 13, 2018**

Case No. 2018-00294

Question No. 3

Responding Witness: Robert M. Conroy / Elizabeth J. McFarland

- Q-3. Refer to the Conroy Testimony, page 15, lines 1-5.
- a. Explain how KU is training customer service representatives to handle customer inquiries about the infrastructure and variable components of the energy charge on the tariff sheets as compared to how the customer is actually billed. Provide all materials and support documents.
 - b. Confirm that on the customer's monthly bill, the energy charge will be the total kWh charge and not the two components.
- A-3.
- a. For Customer Representatives, training material will be developed and delivered via the most appropriate channels for this material including but not limited to eLearning, classroom training and the use of references in our online knowledgebase. The training development will begin closer to the implementation of the new rates to incorporate any revisions that may occur. Delivery of the training will be "just in time" and will fully align with the KPSC Order issued in this case.
 - b. Yes, as discussed in the testimony of Mr. Conroy at page 16, lines 15-18, the energy charge on the monthly bill will reflect the total kWh charge and not the two components.

KENTUCKY UTILITIES COMPANY

**Response to Commission Staff's Second Request for Information
Dated November 13, 2018**

Case No. 2018-00294

Question No. 4

Responding Witness: Robert M. Conroy

- Q-4. Refer to the Conroy Testimony, page 22, lines 1- 12.
- a. Explain why a customer must have a load of 10 MVA or more.
 - b. Explain why KU is limiting this offering to 50 MW for each company.
- A-4.
- a. Green Tariff Option #3 is targeted at customers who desire utility scale renewable options (hence 10 MW or more) that will support adding new renewable resources to the grid.
 - b. As Mr. Conroy states in his testimony on page 22, lines 10-12, "The Companies propose to limit this offering to 50 MW for each of the Companies, i.e., no more than 100 MW total, which should be absorbable in the Companies' system without material integration issues."

KENTUCKY UTILITIES COMPANY

**Response to Commission Staff's Second Request for Information
Dated November 13, 2018**

Case No. 2018-00294

Question No. 5

Responding Witness: John K. Wolfe

- Q-5. Refer to the Conroy Testimony, page 23, lines 20-21.
- a. Provide an itemized list of each type of existing fixtures and pole in KU's inventory.
 - b. Provide an estimated date of when KU is projecting the inventory to be exhausted.
- A-5.
- a. See attached.
 - b. KU inventory of street lights are continually restocked to minimum allowable levels based on historical annual usage. LG&E plans to stop ordering non-LED fixtures that have moved to RLS upon approval of this proceeding. Remaining non-LED lighting inventory will be used to perform repair and maintenance on in-service lights until the inventory is depleted. KU estimates it will deplete this inventory in approximately one year. Once the inventory is depleted, LED lighting materials will be used to replace existing in-service lights that fail or need repair.

KU Lighting Inventory				
Outdoor Lighting Fixtures	Type	Wattage	Lumens	Outdoor Lighting Poles
ACORN	HPS	70w	5,800	POLE,ALUMINUM,30F MH,CONTEMPORARY,EMBEDDED
ACORN	HPS	100w	9,500	POLE,ALUMINUM,30F MH,ORNAMENTAL,EMBEDDED
ACORN	HPS	150w	16,000	POLE,ALUMINUM,30F MH,CONTEMPORARY, DIRECT BURIED
COBRA	HPS	70w	5,800	POLE,ALUMINUM,30F MH,ORNAMENTAL, DIRECT BURIED
COBRA	HPS	100w	9,500	POLE,ALUMINUM,25F MH,CONTEMPORARY,EMBEDDED
COBRA	HPS	200w	22,000	POLE,ALUMINUM,25F MH,ORNAMENTAL,EMBEDDED
COBRA	HPS	400w	50,000	POLE,ALUMINUM,25F MH,CONTEMPORARY, DIRECT BURIED
COBRA	LED	100w Eq	6,850	POLE,ALUMINUM,25F MH,ORNAMENTAL, DIRECT BURIED
COBRA	LED	200w Eq	14,750	POLE,ALUMINUM,35F MH,CONTEMPORARY,EMBEDDED
COBRA	LED	400w Eq	25,500	POLE,ALUMINUM,35F MH,ORNAMENTAL,EMBEDDED
COLONIAL	HPS	70w	5,800	POLE,ALUMINUM,14F MH, DECO SMOOTH, DIRECT BURIED
COLONIAL	HPS	100w	9,500	POLE,ALUMINUM,14F MH, DECO SMOOTH,EMBEDDED
COLONIAL	LED	100w Eq	5,500	POLE,FIBERGLASS,14F, HISTORIC, DIRECT BURIED
CONTEMPORARY	HPS	70w	5,800	POLE,FIBERGLASS,14F, HISTORIC, EMBEDDED
CONTEMPORARY	HPS	100w	9,500	
CONTEMPORARY	HPS	200w	22,000	
CONTEMPORARY	HPS	400w	50,000	
CONTEMPORARY	MH	350w	32,000	
CONTEMPORARY	MH	1000W	108,000	
DIRECTIONAL	HPS	100w	9,500	
DIRECTIONAL	HPS	200w	22,000	
DIRECTIONAL	HPS	400w	50,000	
DIRECTIONAL	MH	350w	32,000	
DIRECTIONAL	MH	1000w	108,000	
OPEN BOTTOM	HPS	100w	9,500	
OPEN BOTTOM	LED	100w Eq	5,250	

KENTUCKY UTILITIES COMPANY

**Response to Commission Staff's Second Request for Information
Dated November 13, 2018**

Case No. 2018-00294

Question No. 6

Responding Witness: Robert M. Conroy / Counsel

- Q-6. Refer to the Conroy Testimony, page 25, lines 20-21. Explain if Rate PSA applies to public and private K-12 schools.
- A-6. The current Rate PSA applies only to cable television system operators and certain telecommunication carriers, as defined therein. The Company proposes to expand the applicability of Rate PSA to "Governmental Units" and "Educational Institutions."

As the proposed Rate PSA defines "educational institution" as "a public or private, non-profit university, college or community college," public and private K-12 schools would not qualify as an educational institution and would not be eligible under the proposed Rate PSA for attachment services as an **educational institution**.

County and independent school districts own, operate, and manage Kentucky's public elementary and secondary schools. These districts are political subdivisions or agencies of the state. *See, e.g., Rose v. Council for Better Education*, 790 S.W.2d 186 (Ky. 1989); *Board of Education v. Board of Education*, 458 S.W.2d 6 (Ky. 1970). As such, they would be eligible for attachment service under the proposed Rate PSA as a **governmental unit**, which the Rate PSA defines as "any agency or department of the Federal Government, a department, agency or other unit of the Commonwealth of Kentucky, a county or city, special district or other political subdivision of the Commonwealth of Kentucky."

As a private elementary or secondary school would not meet the definition of educational institution or government unit, it would not be eligible for attachment service under the proposed Rate PSA. It could, however, request such service through a special contract.

If the Commission determines that attachment service should also be made available to private elementary and secondary schools under Rate PSA, the proposed definition of "educational institution" would require revision.

KENTUCKY UTILITIES COMPANY

**Response to Commission Staff's Second Request for Information
Dated November 13, 2018**

Case No. 2018-00294

Question No. 7

Responding Witness: John K. Wolfe

- Q-7. Refer to the Conroy Testimony, page 26, lines 7-9.
- a. Provide a comparison of the average license agreement pole attachment fee with the current pole attachment fee.
 - b. Provide the number of license agreements.
- A-7.
- a. KU's Governmental Unit and Educational Institution licensees pay attachment fees according to various fee structures. Most pay an annual per-attachment fee of either \$12 or \$7.25. Others paid a one-time fee based on the aerial footage of their attachments. Among licensees who pay an annual attachment fee, the average fee is \$10.22 per attachment, compared with an attachment fee under Rate PSA of \$7.25.
 - b. KU has 19 license agreements with Governmental Units and Educational Institutions.

KENTUCKY UTILITIES COMPANY

**Response to Commission Staff's Second Request for Information
Dated November 13, 2018**

Case No. 2018-00294

Question No. 8

Responding Witness: Robert M. Conroy / John K. Wolfe

- Q-8. Refer to the Conroy Testimony, page 28, lines 17-23 and page 29, lines 1-4. State whether there is a limit on how many times a specific pole attachment can be audited over a specific amount of time.
- A-8. Rate PSA does not limit the number of times a pole attachment may be audited over a specific period of time. KU intends to perform such audits not more frequently than every five years for the purposes set forth in Term and Condition No. 14, such that each pole is audited no more than once in a five-year period.

KENTUCKY UTILITIES COMPANY

**Response to Commission Staff's Second Request for Information
Dated November 13, 2018**

Case No. 2018-00294

Question No. 9

Responding Witness: Robert M. Conroy / John K. Wolfe

- Q-9. Refer to the Conroy Testimony, page 29, lines 5-14.
- a. Explain how KU arrived at the \$25 per attachment penalty amount.
 - b. Explain why it is reasonable for KU to presume that the unauthorized attachment period would be two years.
 - c. State how many times in the last two years KU has had to remove an unauthorized attachment.

A-9.

- a. KU currently has no means to discourage unauthorized attachments. While Rate PSA currently permits KU to remove such attachments, that remedy is not practical as it deprives the unauthorized attacher's customers, who are likely to also be KU customers, of the service provided by the unauthorized attachment. KU sought a penalty amount substantial enough to deter unauthorized attachments without being excessive.

In light of the penalties that other regulatory bodies permit for unauthorized attachments, the proposed penalty, which is approximately 3.5 times the annual attachment fee of \$7.25, is not excessive. The Oregon Public Utilities Commission permits pole owners to assess a fee no greater than five times the current annual rental fee per pole if the unauthorized attachment is reported by the attachment owner to the pole owner and is accompanied by a permit application or is discovered through a joint inspection between the pole owner and attachment owner and accompanied by a permit application. If the pole owner discovers an unauthorized attachment during an inspection in which the attachment owner declined to participate, a penalty of \$100 per pole plus five times the current annual rental fee per pole is permissible. Or. Admin. R. 860-028-0140 (2018). The Federal Communications Commission has found the Oregon approach to be reasonable. *See Implementation of Section 224 of the Act: A National Broadband Plan for Our Future*, Docket No. 07-245, GN Docket No. 09-51, Report and Order and Order on Reconsideration, 26 FCC Rcd 5240 (2011).

- b. In *The Adoption of a Standard Methodology for Establishing Rates for CATV Pole Attachments*, Administrative Case No. 251 (Ky. PSC Sep. 17, 1982), the Commission found that it was appropriate for purposes of determining the amount of a penalty for unauthorized attachments to assume that an unauthorized attachment was made the day after the utility conducted its last inspection. The same assumption can be used to determine how long an unauthorized attachment has been attached to a Company structure for purposes of determining any unpaid attachment charges. Since the Company will not conduct pole audits more frequently than every five years, this assumption would support the use of a five-year period. KRS 278.225, however, limits the assessment of any unbilled charges to two years from the date of discovery of the attachment and would permit KU to bill the owner of the unauthorized attachment only for two years of attachment fees or for the period from the date of the last audit to the date of discovery, whichever is less. The presumption is a rebuttable presumption. The attachment owner will be provided the opportunity to produce evidence that the period of unauthorized attachment was less.

- c. KU has not removed any unauthorized attachments subject to Rate PSA in the last two years.

KENTUCKY UTILITIES COMPANY

Response to Commission Staff's Second Request for Information Dated November 13, 2018

Case No. 2018-00294

Question No. 10

Responding Witness: Robert M. Conroy / John K. Wolfe

- Q-10. Refer to the Conroy Testimony, page 29, lines 22 and 23 and page 30, lines 1-3. Explain why an attachment customer should have to pay more than the cost of repairs.
- A-10. The 50 percent surcharge contained in Term and Condition No. 8(j) applies to work that KU performs to correct an improperly installed attachment. An improperly installed attachment is an attachment that fails to comply with the standards of the National Electrical Safety Code, the Company's published standards, or those established by local or state law. The Company will perform the work only after the Attachment Customer has been provided with written notice of the violation and 30 days from receipt of that notice to correct the noted violations.

The proposed surcharge is intended to provide an incentive for Attachment Customers to install their facilities in accordance with all applicable codes and standards and to timely correct any improper and non-conforming installations. By allowing an Attachment Customer 30 days in which to correct the violation, the Company has sought to strike a reasonable balance between protecting system safety and reliability and providing an Attachment Customer a reasonable opportunity to make the required corrections. It is also intended to deter an Attachment Customer from using KU as a *de facto* contractor for correction of safety violations that would strain limited resources best devoted to KU's electric business.

The 50-percent surcharge is consistent with Commission precedent which allows for charges in excess of cost where an Attachment Customer fails to comply with tariff provisions. In *The Adoption of a Standard Methodology for Establishing Rates for CATV Pole Attachments*, Administrative Case No. 251 (Ky. PSC Sep. 17, 1982), for example, the Commission found that tariffs for pole attachments could "provide for 'make-ready' charges for unauthorized attachments not to exceed **twice** the charges which would have been imposed if the attachment had been properly authorized." *Id. at 5.*

KENTUCKY UTILITIES COMPANY

**Response to Commission Staff's Second Request for Information
Dated November 13, 2018**

Case No. 2018-00294

Question No. 11

Responding Witness: Robert M. Conroy

Q-11. Refer to the Conroy Testimony, page 35, line 19.

- a. Provide the cost of the advanced meter.
- b. Explain if the cost of this meter has been included in the cost for the Solar Share subscription.

A-11.

- a. The cost of the meter depends on the type of meter needed by the customer which currently ranges from \$122.10 to \$318.57. For the Kentucky Utilities customers currently expected to enroll in Solar Share the average cost of the AMI meter would be \$158.16.
- b. No. The cost has not been included for Solar Share as the meter can provide benefits beyond just net billing for Solar Share.

KENTUCKY UTILITIES COMPANY

**Response to Commission Staff's Second Request for Information
Dated November 13, 2018**

Case No. 2018-00294

Question No. 12

Responding Witness: Robert M. Conroy

Q-12. Refer to the Conroy Testimony, page 48, lines 9-16.

- a. Provide the terms and conditions of the FLEX Program.
- b. Explain why these terms and conditions are not in KU's tariff.

A-12.

- a. The Fixed and Limited Income Extension ("FLEX") program was included in the Stipulation and Recommendation filed in Case No. 2009-00548. This program was established to effectively allow eligible customers to pay their bills after they receive their monthly Social Security or pension checks. Exhibit 7 of the Stipulation and Recommendation as noted included the objective, proposal, and eligibility and requirements for the FLEX Program.
- b. The Commission issued an Order on July 30, 2010 in the case noted in part a above. On page 33 of the Order under the section title Findings on Stipulation, the following was stated:

As noted above, KU's FLEX OPTION, described in detail in Exhibit 7 to the stipulation, will be continued. Upon questioning from the Commission at the hearing on June 8, 2010, KU indicated that it preferred that the FLEX OPTION not be made a part of the tariff, so as to enable KU the flexibility to make improvements to the program. The Commission will honor this request; however, before any change can be made to the FLEX OPTION, an informal conference with the Commission staff must be held whereby the rationale for the proposed change must be explained and justified to the satisfaction of the staff. The Commission appreciates the willingness of KU to develop and implement this plan which benefits its customers and does not want to limit the ability of KU to make necessary changes.

Each month the Companies provide an update to the Commission on the number of customers enrolled in the program.

KENTUCKY UTILITIES COMPANY

**Response to Commission Staff's Second Request for Information
Dated November 13, 2018**

Case No. 2018-00294

Question No. 13

Responding Witness: William Steven Seelye

- Q-13. Refer to the Direct Testimony of William Steven Seelye, page 2, lines 7-12. Provide any differences between the current LOLP COSS and the LOLP COSS filed with the 2016 rate case.
- A-13. There are no differences between the LOLP methodology that was used to prepare the LOLP COSS filed in 2016 as compared to the LOLP COSS methodology filed in this proceeding.

Any differences in the LOLP allocation factors between the two COSS are a result of differences in the input data for the LOLP calculations such as class loads, system loads, and generating unit characteristics including forced outage rates.

KENTUCKY UTILITIES COMPANY

**Response to Commission Staff's Second Request for Information
Dated November 13, 2018**

Case No. 2018-00294

Question No. 14

Responding Witness: William Steven Seelye / John K. Wolfe

Q-14. Refer to Seelye Testimony, page 38, line 19.

- a. Explain why five years was chosen as the time period to pay the LED Conversion Fee.
- b. Explain if the light is replaced, with the old light go back into inventory to be installed later for another customer.

A-14.

- a. The Company considered an amortization period from three to five years, which is consistent with the amortization periods that have been used for amortization of regulatory assets of similar magnitude. An amortization period of five years, rather than three years, was chosen to minimize the impact on customers choosing to replace currently functioning non-LED fixtures with LED fixtures. An amortization period of three years would have resulted in a higher Conversion Fee.
- b. Because non-LED lights will no longer be offered for new or replacement lighting installations, it is anticipated that non-LED fixtures will be scrapped whenever they are replaced with LED fixtures at the customers' request. The Company does not believe that there is a resale market for non-LED fixtures that have been replaced with LED fixtures.

KENTUCKY UTILITIES COMPANY

**Response to Commission Staff's Second Request for Information
Dated November 13, 2018**

Case No. 2018-00294

Question No. 15

Responding Witness: William Steven Seelye

- Q-15. Refer to the Seelye Testimony, page 41, lines 20-22. Provide support for the proposed increase of 7.09 percent for KU.
- A-15. The 7.09 percent factor was the increase, as applied to the non-LED rate component charges, necessary to produce the targeted 6.61 percent overall increase in revenue for the Lighting Service (LS) and Restricted Lighting Service (RLS) schedules, as shown in Table 1 of Mr. Seelye's testimony at page 8.

KENTUCKY UTILITIES COMPANY

**Response to Commission Staff's Second Request for Information
Dated November 13, 2018**

Case No. 2018-00294

Question No. 16

Responding Witness: Robert M. Conroy / Elizabeth J. McFarland

Q-16. Refer to the Seelye Testimony, page 45, lines 1-16.

- a. Provide support for changing to the net billing compensation mechanism to 15-minute intervals.
- b. Explain if a solar share customer must convert to an AMI meter.

A-16.

- a. Net billing provides several benefits to the customer beyond the current Buy-All Sell-All (BASA) model used in Solar Share. First, net billing incentivizes customer self-consumption coincident with solar generation. Under net billing when a kWh is self-consumed within the 15-minute interval, it is compensated at the full retail rate versus the current BASA which includes a net export sell rate at less than retail rate. Second net billing economically encourages customers to size their solar subscription to minimize solar generation in excess of their self-consumption. Thus, net billing helps to place solar share on a level playing field with customer-owned solar panels for generation up to the customer's energy usage.
- b. Yes, as a condition of service under the SSP a customer must agree to have an advanced meter.

KENTUCKY UTILITIES COMPANY

**Response to Commission Staff's Second Request for Information
Dated November 13, 2018**

Case No. 2018-00294

Question No. 17

Responding Witness: Robert M. Conroy / William Steven Seelye

- Q-17. Refer to the Seelye Testimony, page 46, lines 1-9. Provide the average time it takes to fully charge a car.
- A-17. Different vehicles charge at different speeds and have battery sizes that vary widely between 9 and 335 miles of electric range. As such, a vehicle on empty would require roughly 1-15 hours for a full charge. At a Level 2 charging station, like the ones being deployed for the Company's Electric Vehicle Charging program, the average vehicle adds about 11.5 miles of range per hour of charging and spends 1 hour and 46 minutes at a charging station per session.

KENTUCKY UTILITIES COMPANY

**Response to Commission Staff's Second Request for Information
Dated November 13, 2018**

Case No. 2018-00294

Question No. 18

Responding Witness: Robert M. Conroy / Elizabeth J. McFarland

- Q-18. Refer to the Seelye Testimony, page 46, lines 11-15 and page 47, lines 1-7. Confirm that under Rider EVSE-R, the customer will pay for the electric energy in a separate bill.
- A-18. The Customer will pay the kWh energy charges on the same bill. Their energy consumption will be an accumulation of their normal kWh and that of the charging station. The EVSE-R monthly fees will be listed as a separate line item on the same bill.

KENTUCKY UTILITIES COMPANY

**Response to Commission Staff's Second Request for Information
Dated November 13, 2018**

Case No. 2018-00294

Question No. 19

Responding Witness: Elizabeth J. McFarland / William Steven Seelye

- Q-19. Refer to the Seelye Testimony, page 66, lines 8-22 and page 67 lines 1-7.
- a. Provide an itemized list of any expenses KU incur when processing a late payment.
 - b. Explain if these expenses will still occur if the late charge is waived.
- A-19.
- a. There are no incremental expenses incurred when processing a late payment. Late payment charges are automatically processed and applied to customer accounts by the customer billing system.
 - b. Not applicable. See the response to part a.

KENTUCKY UTILITIES COMPANY

**Response to Commission Staff's Second Request for Information
Dated November 13, 2018**

Case No. 2018-00294

Question No. 20

Responding Witness: William Steven Seelye

Q-20. Refer to the Seelye Testimony, pages 102-103. Here, Mr. Seelye explains that the cash working capital methodology proposed by KU, in this case, is the same Lead/Lag methodology approved by the Virginia State Corporation Commission.

- a. Provide a comparative analysis between the Lead/Lag methodology proposed by KU in this proceeding to the methodology proposed by Atmos in Case No. 2015-00343.¹ Include in this analysis detailed explanations for any differences between the two methodologies.
- b. Provide a comparative analysis between the Lead/Lag methodology proposed by KU in this proceeding to the methodology proposed by Kentucky-American Water and accepted by the Commission in Case No. 2012-00520.² Include in this analysis detailed explanations for any differences between the two methodologies.

A-20.

- a. Based on a review of the testimony and workpapers filed by Atmos in Case No. 2015-00343, it does not appear that a lead-lag study was submitted in that proceeding. Attachment 1 of Atmos's Filing Requirement (FR_16(8)(b), Attachment 1) indicates that the 1/8th O&M Method for Cash Working Capital was utilized. The Companies reviewed workpapers and responses to data requests submitted by Atmos in Case No. 2015-00343 and could not find where Atmos had submitted a lead-lag study.

In his testimony filed in Case No. 2015-00343, Atmos's witness Gregory K. Waller states: "The components of rate base are: net plant in service, construction work in progress, cash working capital calculated using the 1/8 O&M expense method, plus an allowance for other working capital items consisting of materials and supplies, gas stored underground, and prepayments,

¹ Case No. 2015-00343, *Application of Atmos Energy Corporation for an Adjustment of Rates and Tariff Modifications* (Ky. PSC Aug. 4, 2016).

² Case No. 2012-00520, *Application of Kentucky-American Water Company for an Adjustment of Rates Supported by a Fully Forecasted Test Year* (Ky. PSC Oct. 25, 2013).

less customer advances for construction and deferred income taxes.”
(Testimony of Gregory K. Waller, at p. 7.)

- b. The Companies reviewed the testimony, exhibits and responses to data requests filed by Kentucky-American Water Company (“KY-Amer”) in Case No. 2012-00520 supporting its lead-lag study. Based on the information that was filed by KY-Amer, the Companies could only perform a high-level review of KY-Amer’s lead-lag study. However, the methodology for calculating expense lead days, as supported by Exhibit 37, Schedule B-5.2 of KY-Amer’s Filing Requirement, and as described in the Direct Testimony submitted by Linda C. Bridwell, generally appears to be the same as used by the Company. Specifically, Schedule B-5.2 breaks out the expense categories similarly to KU and LG&E. Also, similar to LG&E and KU, KY-Amer assumed zero lead days for accrual items such as depreciation expenses, amortization expenses, and deferred income taxes. The methodology for calculating revenue lag days also appears to be similar. Differences the Companies observed are potential lead-lag day differences for pension and OPEB, uncollectibles, and net income. The Companies included working capital for pension and OPEB as a balance sheet item in rate base (see Schedule B-5.2 filed with the Companies’ Application). The Companies included uncollectibles expense in the determination of lead-lag results but did not include net income in the determination of lead-lag results. Also, the Companies included pass-through items, (i.e., school tax, sales tax, and franchise fees) in their lead-lag studies; however, KY-Amer did not appear to include these pass-through items in its lead-lag study.

KENTUCKY UTILITIES COMPANY

**Response to Commission Staff's Second Request for Information
Dated November 13, 2018**

Case No. 2018-00294

Question No. 21

Responding Witness: William Steven Seelye

Q-21. Refer to the Seelye Testimony, Exhibit WSS-4. Provide cost support for the following:

- a. Total Installed Cost.
- b. Fixed Carrying Charge.
- c. Annual Carrying Cost.

A-21.

- a. See attachment being provided in Excel format. The breakdown of costs for Overhead LED lights can be found in the tab labeled "LS - Overhead Lights", and the costs for Underground LED Lights can be found in the tab labeled "LS - Underground Lights".
- b. See attachment being provided in Excel format. The determination of the fixed carrying charges can be found in the tab labeled "Fixed Carrying Cost".
- c. Annual Carrying Cost is the product of Total Installed Cost and Fixed Carrying Charge.

The attachment is being provided in a separate file in Excel format.

KENTUCKY UTILITIES COMPANY

**Response to Commission Staff's Second Request for Information
Dated November 13, 2018**

Case No. 2018-00294

Question No. 22

Responding Witness: William Steven Seelye

- Q-22. Refer to the Seelye Testimony, Exhibit WSS-5. Provide cost support for the following:
- a. Pole allocation factor.
 - b. Depreciation Rate.
- A-22.
- a. See the Excel attachment to the response to Question No. 21, parts a and b. The pole allocation factor is calculated in the tab labeled "Maintenance & NBV".
 - b. The depreciation rate is based on recovering the remaining book value of the original light over a 5-year period. Therefore, the depreciation rate would be determined by $100\%/5 \text{ years} = 20\%$.

KENTUCKY UTILITIES COMPANY

**Response to Commission Staff's Second Request for Information
Dated November 13, 2018**

Case No. 2018-00294

Question No. 23

Responding Witness: Robert M. Conroy / William Steven Seelye

- Q-23. Refer to the Seelye Testimony, Exhibit WSS-6. Also, refer to the Tariff Filing 2018-0037³ regarding the Revised Solar Share Program Tariff submitted by KU/LG&E pursuant to Case No. Case No. 2016-00274.⁴ The total cost for LG&E and KU is estimated to be \$136,392 in the instant case and \$150,988 in Tariff Filing 2018-00372. Reconcile this difference.
- A-23. See the testimony of Mr. Seelye at page 44, lines 9-13. WSS-6 reflects the latest estimated cost of the solar facilities. Tariff Filing 2018-00372 maintained the original estimated capital costs and was made specifically to remove the administration fee and update rates to reflect the Tax Cuts and Jobs Act.

³ TFS 2018-00372 effective 9/1/2018.

⁴ Case No. 2016-00274 *Electronic Joint Application of Kentucky Utilities Company and Louisville Gas and Electric Company for Approval of an Optional Solar Share Program Rider* (Ky. PSC Nov. 4, 2016).

KENTUCKY UTILITIES COMPANY

**Response to Commission Staff's Second Request for Information
Dated November 13, 2018**

Case No. 2018-00294

Question No. 24

Responding Witness: William Steven Seelye

- Q-24. Refer to the Seelye Testimony, Exhibit WSS-7.
- a. Provide support for the estimated investment per unit.
 - b. Explain why fixed charges are estimated to be 20.88 percent of the investment.
 - c. Provide support for the O&M costs.
 - d. Provide support for the charge point cost.
- A-24. See attachment being provided in Excel format. Please note that a correction has been made to the spreadsheet to determine the rates for EVSE. In the rates shown in Exhibit WSS-7 for EVSE, the FAC, OSS, and ECR mechanisms were inadvertently included. The rates for EVSE determined in the attached spreadsheet have been revised to exclude these adjustment factors. These rate updates do not impact the revenue deficiency because there are no customers projected to take service under Rate EVSE.
- a. The support for the estimated investment per unit is included in the tab labeled "Costs Reference".
 - b. The fixed charges are calculated in the tab labeled "WACC – Carrying Charges".
 - c. O&M costs are calculated in the tab labeled "Costs Reference".
 - d. The support for the Charge Point cost is included in the tab labeled "Costs Reference".

The attachment is being provided in a separate file in Excel format.

KENTUCKY UTILITIES COMPANY

**Response to Commission Staff's Second Request for Information
Dated November 13, 2018**

Case No. 2018-00294

Question No. 25

**Responding Witness: Daniel K. Arbough / Elizabeth J. McFarland /
William Steven Seelye**

Q-25. Refer to WSS-17.

a. Refer to page 1 of 2.

(1) Explain how US Bank/MUFG charges KU for returned checks/ACH.

(2) Explain how returned checks/ACH are processed by KU.

(3) Also refer to Case No. 2008-00251,⁵ application, SLC Exhibit 5. Explain why the labor portion of the returned check/ACH charge has gone from \$8.37 in Case No. 2008-00251 to \$0.12 in this case.

b. Refer to page 2 of 2. Explain how the "Monthly carrying charge per pulse per meter per month" of \$24.52 was calculated.

A-25.

a.

(1) US Bank invoices KU monthly for the various bank service fees which include fixed fees for the Monthly Maintenance service of Returned Items-Checks (\$2.50 per month) and the electronic ACH Return Report (\$7.00 per month), and per-item fees for Returned Checks (\$2.00), Unauthorized ACH Returns (\$6.00), ACH Returned Items (\$1.00), and Electronic Notification of ACH Returns (\$0.25). Note that not all of these per-item fees apply to every returned check/ACH.

MUFG automatically deducts returned check fees from KU's bank account each month and charges KU a per-item fee for the following services for returned checks: Special Data Entry (\$0.30), Transmission Base Charge (\$5.00), Deposited Items Returned-Chargeback (\$2.50), and Web Returned

⁵ Case No. 2008-00251, *Application of Kentucky Utilities Company for an Adjustment of Electric Base Rates*.

Images (\$0.50). MUFG does not process ACHs for KU. Note that not all of these per-item fees apply to every returned check/ACH.

(2) Returned checks/ACH are processed in either one of two ways – manually or automated. The majority of returned items are processed automatically.

(3) Labor costs have declined as more returns are processed via automated methods.

- b. See attached. The monthly carrying charges used to determine the meter pulse charge are based on the levelized carrying charge rate for property with an Average Service Life (ASL) of 5 years applied to the current and replacement cost of the electronic pulse data collection equipment. The estimated replacement cost is determined using a 5-Year R3 Iowa type survivor curve.

Kentucky Utilities

Present Value of Replacement Plant as a Percentage of Original Cost

Year (1)	5-Year R3 Iowa Curve Percent Surviving (2)	Annual Replacement Percentage (3)	Cumulative Replacement Percentage (4)	Cost Escalation Factor at a 2.00% Inflation Factor (5)	Nominal Replacement Cost (6) (3) x (5)	Present Value Factor at a 7.00% Discount Rate (7)	Present Value of Annual Replacement Cost (8) (6) x (7)	Cumulative Present Value of Annual Replaced Cost (9)
0	100.0000							
1	99.2989	0.7011	0.7011	1.0200	0.7152	0.9346	0.6684	0.6684
2	96.8953	2.4035	3.1047	1.0404	2.5006	0.8734	2.1841	2.8525
3	90.7990	6.0963	9.2010	1.0612	6.4695	0.8163	5.2810	8.1335
4	78.0273	12.7718	21.9727	1.0824	13.8246	0.7629	10.5467	18.6802
5	54.7415	23.2857	45.2585	1.1041	25.7093	0.7130	18.3304	37.0106

Present Value of Replacement Plant as a Percentage of Original Cost

37.0106

Kentucky Utilities

Meter Pulse Charge

1	Present Value of Replacement Plant as a Percentage of Original Cost	37.01
2	Original Cost Basis (100)	100
3	Total Present Value of Original and Replacement Cost Value as a Percentage of Original Cost	137.01
4	Monthly Carrying Charge Percentage (Levelized Carrying Charge Rate / 12 months)	0.02017
5	Applicable Carrying Charge Percentage (Lines 3 x 5)	2.76%
6	O&M Percentage	0.27%
7	Distribution O&M 12 Months Ended April 30, 2018	\$ 56,400,109
8	Distribution Plant in Service as April 30, 2018	\$ 1,768,610,491
9	Total Monthly Revenue Requirement as Percentage of Original Cost	3.03%
10	Installed Cost of Meter Pulse Equipment	\$809.18
11	Monthly Charge	\$ 24.52

KENTUCKY UTILITIES COMPANY

**Response to Commission Staff's Second Request for Information
Dated November 13, 2018**

Case No. 2018-00294

Question No. 26

Responding Witness: David S. Sinclair

- Q-26. Refer to the Direct Testimony of David S. Sinclair (Sinclair Testimony), page 8, lines 5-8. Confirm that there is no material difference in what was provided as a result of the final Order in Case No. 2017-00441.⁶
- A-26. There is no material difference between the DSM assumptions used to prepare the 2019 load forecast and the final order. While the PSC eliminated the KSBA DSM program from the final ruling, this program was projected to only reduce total load by approximately 7 GWh annually in 2019 and 2020.

⁶ Case No. 2017-00441 , *Electronic Joint Application of Louisville Gas and Electric Company and Kentucky Utilities Company for Review, Modification, and Continuation of Certain Existing Demand-Side Management and Energy Efficiency Programs* (Ky. PSC Oct. 5, 2018).

KENTUCKY UTILITIES COMPANY

**Response to Commission Staff's Second Request for Information
Dated November 13, 2018**

Case No. 2018-00294

Question No. 27

Responding Witness: Gregory J. Meiman

- Q-27. Refer to the Direct Testimony of Gregory J. Meiman (Meiman Testimony) page 5, lines 17-19. Mr. Meiman states that two independent studies have illustrated that KU's compensation and benefits package is competitive in the utility market. Provide any studies comparing compensation to the general Lexington area.
- A-27. As indicated in testimony, KU believes it is competitive in compensation when compared to the utility market. As a general matter, the Company does not attempt to benchmark against specific municipal markets. However, the benefits and compensation studies utilized comparator groups that included a number of Kentucky entities.

KENTUCKY UTILITIES COMPANY

**Response to Commission Staff's Second Request for Information
Dated November 13, 2018**

Case No. 2018-00294

Question No. 28

Responding Witness: Gregory J. Meiman

- Q-28. Refer to the Meiman Testimony, page 12, line 14. Confirm that the TIA plan includes executives.
- A-28. Any expense related to executive compensation is excluded from the revenue requirement.

KENTUCKY UTILITIES COMPANY

**Response to Commission Staff's Second Request for Information
Dated November 13, 2018**

Case No. 2018-00294

Question No. 29

Responding Witness: Gregory J. Meiman

- Q-29. Refer to the Meiman Testimony, page 27, lines 19-21. Confirm that LG&E does not contribute to dental insurance.
- A-29. Employees and the Company contribute to the cost of dental insurance. See the response to PSC 1-66, Attachment 5.

KENTUCKY UTILITIES COMPANY

**Response to Commission Staff's Second Request for Information
Dated November 13, 2018**

Case No. 2018-00294

Question No. 30

Responding Witness: Lonnie E. Bellar

Q-30. Refer to the Direct Testimony of Daniel K. Arbough, page 5, lines 3-18.

- a. Provide the increase in the number of employees KU/LG&E forecast to hire during the forecast year.
 - (1) Provide support for each forecasted hire.
 - (2) Provide the estimated cost for each hire.

A-30.

- a. There is not an increase in headcount for KU or LKS during the forecasted period. There is a net increase of 7 employees for LG&E in the forecasted period. Generation will be increasing the number of employees at the Trimble County Generating Station by eight (8) during the forecast year; this is offset by a decrease in a different line of business. We do not allocate headcount between companies; we only allocate dollars. The amounts show in part (2) reflect total estimated costs of hiring which will then be allocated between the companies.
 - (1) The Trimble County Generating Station (Station) anticipates hiring four (4) Operations Station Helpers in the summer of 2019. There are twelve (12) Operators on each shift (4 shifts), and the Station plans to increase that number to thirteen (13) per shift. The main function of an Operators is to place equipment in and out of service as needed and to monitor all equipment and systems to ensure proper operation. The Operators accomplish this by monitoring the equipment remotely through the use of computers and by periodically checking each piece of equipment locally during their shift for any abnormalities in operation. The addition of new equipment and systems to meet government mandated environmental regulations is making it necessary to increase the number of Operators to ensure that this equipment if being operated correctly and monitored sufficiently. During the past few years, equipment such as the Unit 1 Pulse Jet Fabric Filter, Dry Sorbent Injection system and Mercury Control systems have been added. During 2019, new systems such as Unit's 1&2

Flyash Transfer Stations to support the Coal Combustion Residual Transport (CCRT) System and Process Water Ponds with associated pumping stations to support the Process Water System (PWS) will be placed in service. Additionally, during the past few years, the run time for the six Combustion Turbines at the Station has increased. The additional Operators will be used to perform the necessary functions to safely operate and monitor the additional equipment.

The Station also plans to add four (4) Mechanical Repair Technicians, two in 2019 and two in 2020 to maintain the above mentioned additional equipment. With the CCRT system and PWS being commissioned, a substantial amount of new structures and equipment will need to be maintained by the Station's Maintenance staff. The CCRT system will consist of a gypsum dewatering facility, a gypsum storage building, four storage tanks, two flyash storages silos, four transfer towers and a variety of electrical and mechanical equipment. This system alone will include 25 pumps, 4 blowers, 4 exhausters, 3 air compressors, 10 conveyors, 5 agitators, 2 vacuum belts, 106 motors and a significant amount of other associated equipment. The transport portion of the CCRT system that will convey the CCR materials up to the new landfill includes a 1,200 ton per hour, 1.2 mile long pipe conveyor. This conveyor goes to a new transport building and truck load out system at the new landfill. The PWS includes an additional 48 pumps, 20 agitators, 74 motors, 2 air compressors, 4 filter presses and numerous other tanks, receivers, piping, valves and other associated equipment.

(2)

Position Description	Anticipated Hire Date	Forecast Year Estimated Cost
Operations Station Helper	6/1/2019	\$ 68,993
Operations Station Helper	6/1/2019	\$ 68,993
Operations Station Helper	7/1/2019	\$ 63,200
Operations Station Helper	7/1/2019	\$ 63,200
Mechanical Repair Technician	6/1/2019	\$ 82,920
Mechanical Repair Technician	6/1/2019	\$ 82,920
Mechanical Repair Technician	4/1/2020	\$ 7,716
Mechanical Repair Technician	4/1/2020	\$ 7,716

KENTUCKY UTILITIES COMPANY

**Response to Commission Staff's Second Request for Information
Dated November 13, 2018**

Case No. 2018-00294

Question No. 31

Responding Witness: Adrien M. McKenzie

- Q-31. Refer to the Direct Testimony of Andrien M. McKenzie (McKenzie Testimony), page 7, line 27. Provide examples of unrepresentative financial inputs and describe the possible impact of an unrepresentative financial input on KU.
- A-31. Based on a series of very restrictive assumptions, DCF theory reduces the actions, opinions, and expectations of all investors down to a dividend yield and growth component, with the only observable parameter being the market price of the stock. This masks the underlying complexities that accompany any attempt to distill every facet of investors' expectations into a single growth estimate. There is no direct link between this model and bond yields (historical, current, or expected), Federal Reserve policies, relative risk perceptions, or any other data input from the capital markets or the economy. As a result, it is not possible to pinpoint the exact mechanism by which capital market conditions or other considerations are translated into unrepresentative inputs. As FERC concluded in Opinion No. 551, "a direct causal analysis linking specific capital market conditions to particular inputs or assumptions of the DCF model is not necessary." *Ass'n of Businesses Advocating Tariff Equity v. Midcontinent Indep. Sys. Operator, Inc.*, Opinion No. 551, 156 FERC ¶ 61,234 (2016) at P 125. Nevertheless, one example of an unrepresentative financial input would be a growth rate estimate that is not representative of the expectations that investors have built into the observable prices of utility common stocks. As FERC has concluded, "any DCF analysis may be affected by potentially unrepresentative financial inputs to the DCF formula." *Coakley v. Bangor Hydro-Elec. Co.*, Opinion No. 531, 147 FERC ¶ 61,234 at P 144 (2014) at P 41. As a result, it is crucial to critically evaluate the results of all quantitative methods used to estimate the cost of equity and employ multiple approaches soundly applied.

KENTUCKY UTILITIES COMPANY

**Response to Commission Staff's Second Request for Information
Dated November 13, 2018**

Case No. 2018-00294

Question No. 32

Responding Witness: Adrien M. McKenzie

- Q-32. Refer to the McKenzie Testimony, page 15, lines 7-13. Provide any updates from Moody's regarding utility ratings.
- A-32. Mr. McKenzie is not aware of any published updates from Moody's concerning industry-wide ratings in the utility sector.

KENTUCKY UTILITIES COMPANY

**Response to Commission Staff's Second Request for Information
Dated November 13, 2018**

Case No. 2018-00294

Question No. 33

Responding Witness: Daniel K. Arbough

- Q-33. Refer to the McKenzie Testimony, page 18, lines 16-22. Reconcile the 2017-2021 capital expenditure plan of \$2.7 billion with the proposed capital expenditures.
- A-33. The source of the amount quoted in the McKenzie testimony was the 2016 10-K (the referenced Moody's report is dated October 27, 2017), and is based on the 2017 business plan. The application in this case is based on the 2019 business plan. The amounts shown in the 10-K also include expenditures for jurisdictions other than Kentucky.

KENTUCKY UTILITIES COMPANY

**Response to Commission Staff's Second Request for Information
Dated November 13, 2018**

Case No. 2018-00294

Question No. 34

Responding Witness: Daniel K. Arbough

- Q-34. Refer to the McKenzie Testimony, page 19, lines 6-8. Standard & Poor's characterizes KU's capital expenditure programs as a significant financial risk. Explain why KU would choose to engage in such an aggressive capital expenditure program instead of a steady, less aggressive plan so as to not risk the company's credit ratings and maintain the ability to attract capital and fund these project in an effective manner.
- A-34. The Company does not agree with the assertion in the data request that its capital program is aggressive. The plan allows the Company to maintain financial ratios consistent with its strong investment grade credit ratings and attract capital at attractive interest rates.

Bond ratings from Standard & Poor's (S&P) take into account many factors with financial risk being one. The most recent S&P report is attached. While the Company does have a "Significant" Financial Risk Profile as shown on page 2, it combines that with an "Excellent" Business Risk Profile. As discussed on pages 4 through 13 of Exhibit DKA-4 to my direct testimony, the Business Risk Profile is a function of risks such as industry risk of competition, cyclicality, operating efficiency, and the regulatory environment. As shown on page 6 of the attachment, if the Company did not have the Excellent Business Risk Profile it could not maintain its Significant Financial Risk Profile and retain its a- anchor rating. The Company also issues secured debt allowing it to achieve a bond rating of A from S&P and issue debt at attractive interest rates.

The ability to retain its strong credit rating with the Significant Financial Risk Profile allows the Company to complete the required environmental capital projects and to upgrade the reliability of its network while keeping rates low. This provides the Company the opportunity to meet the demands of our customers and the environmental regulators.

RatingsDirect®

Summary:

Kentucky Utilities Co.

Primary Credit Analyst:

Safina Ali, CFA, New York (1) 212-438-1877; safina.ali@spglobal.com

Secondary Contact:

Gerrit W Jepsen, CFA, New York (1) 212-438-2529; gerrit.jepsen@spglobal.com

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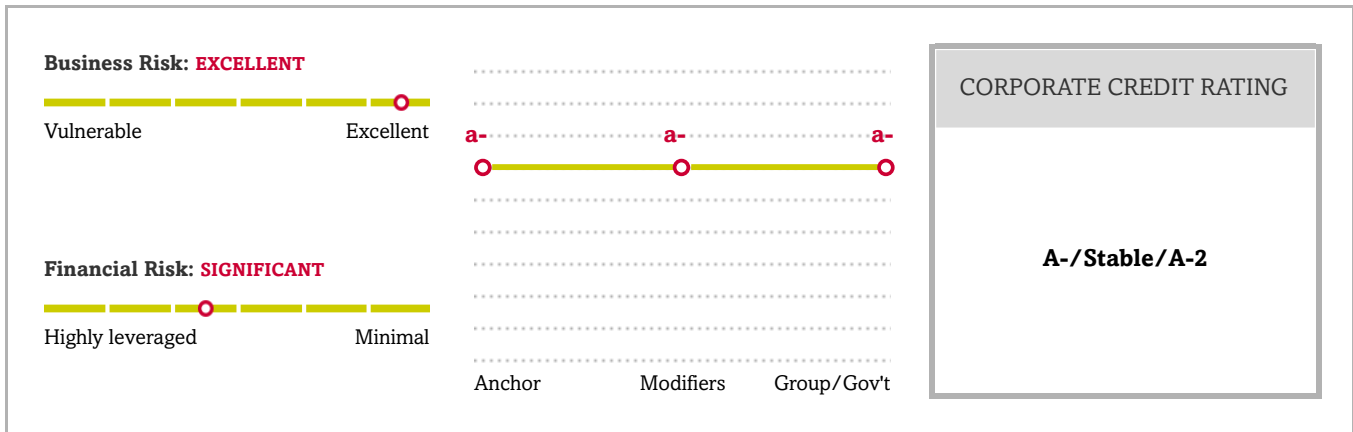
Ratings Score Snapshot

Issue Ratings

Recovery Analysis

Related Criteria

Summary: Kentucky Utilities Co.



Rationale

Business Risk: Excellent	Financial Risk: Significant
<ul style="list-style-type: none"> Regulated and vertically integrated electric utility. Operates under a generally constructive and credit-supportive regulatory framework in Kentucky. Limited geographic diversity and relatively small customer base. Material exposure to coal-fired generation results in some operating and environmental risk. 	<ul style="list-style-type: none"> Core credit ratios support the assessment of a significant financial risk profile using moderate financial benchmarks compared to the typical corporate issuer. Balanced capital structure supports overall credit profile. Capital expenditures, primarily driven by environmental spending, leading to negative discretionary cash flows.

Outlook: Stable

The stable rating outlook on Kentucky Utilities Co. (KU) reflects S&P Global Ratings' outlook on its parent, PPL Corp. (PPL), because KU is viewed as a core subsidiary of its parent.

The stable outlook on PPL is based on the company's excellent business risk profile that we view at the upper end of the range and significant financial risk profile, which is at the lower end of the range. Under our base case scenario we expect that funds from operations (FFO) to debt will range from 13%-14% while debt to EBITDA will remain elevated at over 5x.

Downside scenario

We could lower the ratings on PPL and its subsidiaries, including KU, if core credit ratios weaken such that FFO to debt is below 13% on a consistent basis over the next 12 to 18 months, while maintaining the current level of business

risk.

Upside scenario

Given our assessment of business risk and our base-case scenario for financial performance, we do not anticipate higher ratings on PPL and its subsidiaries during the outlook period. However, higher ratings would largely depend on PPL achieving FFO to debt of more than 18% on a consistent basis over the next 12 to 18 months, while maintaining the current level of business risk.

Our Base-Case Scenario

Assumptions	Key Metrics			
<ul style="list-style-type: none"> Gross margin growth primarily benefits from anticipated base-rate increases and the timely recovery of planned environmental compliance costs. Elevated capital spending of about \$550 million to \$650 million per year through 2019 mainly for upgrading generation to meet environmental regulations and investment on transmission and distribution infrastructure. All debt maturities are refinanced. 	2016A	2017E	2018E	
	FFO to debt (%)	23.8	21-23	20-22
	Debt to EBITDA (x)	3.4	About 3.5	About 3.5
A--Actual. E—Estimate. FFO—Funds from operations.				

Company Description

KU is a vertically integrated electric utility providing service to about 550,000 customers mostly in Kentucky.

Business Risk: Excellent

We assess KU's business risk profile based on the company's regulated integrated utility operations under a generally constructive regulatory framework in Kentucky that provides for timely recovery of approved capital expenditures.

KU lacks scale and geographic diversity since it operates mainly in the state of Kentucky with some operations in Virginia. The customer mix is mostly residential and commercial, which insulates the company from fluctuations in electricity demand and results in relatively stable cash flows.

The company has generation capacity of about 5,000 megawatts (MW). Because much of the generation is coal-fired, the company has been upgrading its plants to comply with environmental regulations. However, the company can recover the costs for these upgrades through an environmental cost recovery mechanism, which limits regulatory lag and is supportive of the credit profile. Under the regulation of the Kentucky Public Service Commission (PSC), the company benefits from other recovery mechanisms such as a pass-through fuel cost and a purchased power cost recovery rider. These mechanisms increase the stability of the company's returns. Moreover, the company's low-cost,

coal-fired generation and efficient operations contribute to the overall competitive rates for customers.

Financial Risk: Significant

Under our base-case scenario, we project that KU's FFO to debt will range from 20%-23% and debt to EBITDA will remain about 3.5x. Over the next few years, we expect credit measures to benefit from the use of regulatory mechanisms to recover its invested capital cost. Our assessment also includes a recently approved base-rate increase of about \$50 million.

We assess KU's financial risk profile as significant using moderate financial benchmarks compared to the typical corporate issuer, accounting for the company's low-risk regulated electric transmission and distribution operations, which are partially offset by relatively higher-risk regulated generation.

Liquidity: Adequate

We assess KU's liquidity as adequate to cover its needs over the next 12 months. We expect that the company's liquidity sources will exceed its uses by 1.1x or more, the minimum threshold for this designation under our criteria and that the company will also meet our other requirements for such a designation.

We view KU as having well-established and solid bank relationships, the ability to absorb high-impact, low-probability events without the need for refinancing, and a satisfactory standing in credit markets.

Additionally, we expect that KU's liquidity will benefit from stable cash flow generation, a \$400 million revolving credit facility, sufficient liquidity support provided by the parent to meet ongoing needs, and manageable debt maturities over the next few years.

Principal Liquidity Sources	Principal Liquidity Uses
<ul style="list-style-type: none"> • Minimal cash balance assumed; • Revolving credit facility of \$400 million; and • Cash FFO of \$660 million-\$665 million. 	<ul style="list-style-type: none"> • Debt maturities of about \$50 million; • Capital expenditure of \$600 million; and • Common stock dividends of about \$265 million to \$270 million.

Group Influence

KU is subject to our group rating methodology criteria. We assess KU as a core subsidiary of parent PPL Corp. because it is highly unlikely to be sold, is integral to the group's overall strategy, possesses significant management commitment, is a significant contributor to the group, and is closely linked to the parent's reputation. Moreover, there are no meaningful insulation measures in place that protect KU from its parent. As a result, the issuer credit rating on KU is 'A-', in line with PPL's group credit profile of 'a-'.

Ratings Score Snapshot

Corporate Credit Rating

A-/Stable/A-2

Business risk: Excellent

- **Country risk:** Very low
- **Industry risk:** Very low
- **Competitive position:** Strong

Financial risk: Significant

- **Cash flow/Leverage:** Significant

Anchor: a-

Modifiers

- **Diversification/Portfolio effect:** Neutral (no impact)
- **Capital structure:** Neutral (no impact)
- **Financial policy:** Neutral (no impact)
- **Liquidity:** Adequate (no impact)
- **Management and governance:** Satisfactory (no impact)
- **Comparable rating analysis:** Neutral (no impact)

Stand-alone credit profile : a-

- **Group credit profile:** a-
- **Entity status within group:** Core (no impact)

Issue Ratings

The short-term rating on KU is 'A-2', based on the issuer credit rating of 'A-'.

Recovery Analysis

KU's first-mortgage bonds benefit from a first-priority lien on substantially all of the utility's real property owned or subsequently acquired. Collateral coverage of over 1.5x supports a recovery rating of '1+' and an issue rating one notch above the issuer credit rating.

Related Criteria

- Criteria - Corporates - General: Reflecting Subordination Risk In Corporate Issue Ratings, Sept. 21, 2017

- General Criteria: Methodology For Linking Long-Term And Short-Term Ratings, April 7, 2017
- Criteria - Corporates - General: Methodology And Assumptions: Liquidity Descriptors For Global Corporate Issuers, Dec. 16, 2014
- Criteria - Corporates - General: Corporate Methodology: Ratios And Adjustments, Nov. 19, 2013
- Criteria - Corporates - General: Corporate Methodology, Nov. 19, 2013
- Criteria - Corporates - Utilities: Key Credit Factors For The Regulated Utilities Industry, Nov. 19, 2013
- General Criteria: Group Rating Methodology, Nov. 19, 2013
- General Criteria: Country Risk Assessment Methodology And Assumptions, Nov. 19, 2013
- General Criteria: Methodology: Industry Risk, Nov. 19, 2013
- Criteria - Corporates - Utilities: Collateral Coverage And Issue Notching Rules For '1+' And '1' Recovery Ratings On Senior Bonds Secured By Utility Real Property, Feb. 14, 2013
- General Criteria: Methodology: Management And Governance Credit Factors For Corporate Entities And Insurers, Nov. 13, 2012
- General Criteria: Use Of CreditWatch And Outlooks, Sept. 14, 2009
- Criteria - Insurance - General: Hybrid Capital Handbook: September 2008 Edition, Sept. 15, 2008

Business And Financial Risk Matrix						
Business Risk Profile	Financial Risk Profile					
	Minimal	Modest	Intermediate	Significant	Aggressive	Highly leveraged
Excellent	aaa/aa+	aa	a+/a	a-	bbb	bbb-/bb+
Strong	aa/aa-	a+/a	a-/bbb+	bbb	bb+	bb
Satisfactory	a/a-	bbb+	bbb/bbb-	bbb-/bb+	bb	b+
Fair	bbb/bbb-	bbb-	bb+	bb	bb-	b
Weak	bb+	bb+	bb	bb-	b+	b/b-
Vulnerable	bb-	bb-	bb-/b+	b+	b	b-

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KENTUCKY UTILITIES COMPANY

**Response to Commission Staff's Second Request for Information
Dated November 13, 2018**

Case No. 2018-00294

Question No. 35

Responding Witness: Adrien M. McKenzie

Q-35. Refer to the McKenzie Testimony, page 26, lines 12-19.

- a. According to the October 26, 2018 publication of Value Line, Issue 11, Sempra Energy has announced an acquisition for InfraREIT. Provide an explanation for including Sempra Energy in the proxy group.
- b. Explain why MGE Energy, Inc., was not included in the proxy group.

A-35.

- a. While participation in a merger or acquisition transaction may warrant eliminating a firm from a proxy group, this determination should be based on an evaluation of the extent to which the specific transaction leads to distortion in the inputs used to apply the quantitative methods used to estimate the cost of equity. For example, in certain cases securities analysts such as Value Line indicate that their projections will not include the impact of the transaction until after it is finalized, whereas observable stock prices already account for investors' expectations of the transaction's impact on growth expectations. This can lead to a mismatch between the stock prices and growth rates used to apply the DCF model. In the case of InfraREIT, while the acquisition is certainly noteworthy, the \$1.275 billion purchase price represents only approximately 4% of Sempra Energy's market capitalization and approximately 3.3% of total capital. Given the relatively small size of the transaction in relation to Sempra Energy, there is no indication that this would warrant excluding Sempra Energy from the proxy group. Investors recognize that utilities are routinely engaged in a variety of transactions, including asset sales and purchases and the spin-off or acquisition of business lines or subsidiaries, and securities analysts' routinely factor such events into their forecasts. Absent evidence that such transactions are undermining the reliability of the quantitative approaches used to estimate the cost of equity, there is no basis to exclude the company at issue from the proxy group.
- b. MGE Energy, Inc. was not included in the proxy group because it does not have published corporate credit ratings from S&P or Moody's.

KENTUCKY UTILITIES COMPANY

**Response to Commission Staff's Second Request for Information
Dated November 13, 2018**

Case No. 2018-00294

Question No. 36

Responding Witness: Adrien M. McKenzie

- Q-36. Refer to the McKenzie Testimony, page 33, line 6. Explain the ongoing regulatory risks that utilities are facing.
- A-36. Utilities face ongoing regulatory risks related to their ability to recover prudently incurred costs to provide service, on time and in full, and earn investors' required return on the capital employed. Such risks include the degree of transparency, predictability, and consistency of the regulatory process; the degree to which the regulatory framework considers financial integrity and credit quality; the degree of regulatory independence and insulation from political intervention; the ability of tariff-setting procedures to allow timely recovery of operating and capital costs; the degree of flexibility to allow recovery of unexpected costs; and capital support during construction to alleviate funding and cash flow pressure during periods of capital investment.

KENTUCKY UTILITIES COMPANY

**Response to Commission Staff's Second Request for Information
Dated November 13, 2018**

Case No. 2018-00294

Question No. 37

Responding Witness: Adrien M. McKenzie

Q-37. Refer to the McKenzie Testimony, page 47. Provide an update to the average Moody's monthly yields for Baa utility bonds.

A-37. The most recent average monthly yields on Baa Utility bonds available to Mr. McKenzie are shown in the table below:

	<u>Baa</u>
May	4.71%
Jun.	4.71%
Jul.	4.67%
Aug.	4.64%
Sep.	4.74%
Oct. 2018	4.91%
Average	4.73%

KENTUCKY UTILITIES COMPANY

**Response to Commission Staff's Second Request for Information
Dated November 13, 2018**

Case No. 2018-00294

Question No. 38

Responding Witness: Adrien M. McKenzie

- Q-38. Provide the most current ROE awarded by each respective regulatory agency and the date of the award for the proxy group of gas and electric utilities or for the utility subsidiary if the proxy group member is a holding company.
- A-38. Mr. McKenzie did not conduct a study of the ROEs allowed by each respective regulatory agency for the proxy group in the course of preparing his direct testimony in this case; nor was such a study necessary to support his conclusions and recommendations. However, information regarding allowed rates of return for the proxy firms is reported by Value Line, with the Value Line reports relied on in the preparation of Mr. McKenzie's testimony being provided in his workpapers in response to DOD Question No. 3. Additional information regarding allowed ROEs for the proxy companies is generally reported in their respective SEC Form 10-K reports, which are publicly available at <https://www.sec.gov/edgar/searchedgar/legacy/companysearch.html>.

KENTUCKY UTILITIES COMPANY

**Response to Commission Staff's Second Request for Information
Dated November 13, 2018**

Case No. 2018-00294

Question No. 39

Responding Witness: Daniel K. Arbough

Q-39. Refer to the McKenzie Testimony, page 63. Provide the most recent awarded ROEs as published by RRA.

A-39. See attached.

RRA Regulatory Focus

Major Rate Case Decisions – January – September 2018

The average ROE authorized electric utilities was 9.64% in rate cases decided in the first three quarters of 2018, somewhat below the 9.74% average for cases decided in calendar-2017. There were 37 electric ROE determinations in the first nine months of 2018 versus 53 in the full year 2017. This data includes several limited-issue rider cases. Excluding these cases from the data, the average authorized ROE was 9.59% in rate cases decided in the first nine months of 2018, somewhat below the 9.68% average for the full year 2017. The difference between the ROE averages including rider cases and those excluding the rider cases is largely driven by ROE premiums of up to 200 basis points approved by the Virginia State Corporation Commission in riders related to certain generation projects (see the [Virginia Commission Profile](#)).

The average ROE authorized gas utilities was 9.62% in cases decided during the first three quarters of 2018 versus 9.72% in full-year 2017. There were 26 gas cases that included an ROE determination in the first nine months of 2018, versus 24 in full-year 2017. RRA notes that the 2017 data includes an 11.88% ROE determination for an Alaska utility. Absent this “outlier,” the 2017 gas ROE average is 9.63%.

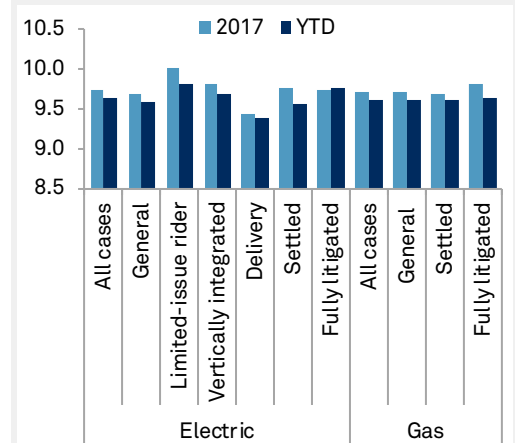
In the first nine months of 2018, the median authorized ROE in all electric utility rate cases was 9.7%, up from 9.6% from full-year 2017. For gas utilities, the median authorized ROE in cases decided in the first nine months of 2018 was 9.55%, versus 9.6% in 2017.

Over the last several years, the persistently low-interest-rate environment has put downward pressure on authorized ROEs. As shown in the graph below, the annual average ROE has generally declined since 1990 and has been below 10% for electric utilities since 2014 and below 10% for gas utilities since 2011.

After a busy 2017, when more than 130 cases were decided, there were 84 electric and gas cases in which a decision was rendered in the first three quarters of 2018, including cases where no ROEs were specified. With over 85 rate cases [pending](#), 55 of which are likely to be decided by year end, 2018 is shaping up to be another busy year for regulators. Rate case activity has been quite robust, with more than 100 cases decided in several of the last full calendar years.

Authorized return on equity (%)

Dashboard



Electric	2017	YTD
All cases	9.74	9.64 ▼
General rate cases	9.68	9.59 ▼
Limited-issue rider cases	10.01	9.80 ▼
Vertically integrated cases	9.80	9.69 ▼
Delivery cases	9.43	9.38 ▼
Settled cases	9.75	9.55 ▼
Fully litigated cases	9.73	9.75 ▲
Gas	2017	YTD
All cases	9.72	9.62 ▼
General rate cases	9.72	9.62 ▼
Settled cases	9.68	9.61 ▼
Fully litigated cases	9.82	9.63 ▼

Data compiled Oct. 10, 2018.

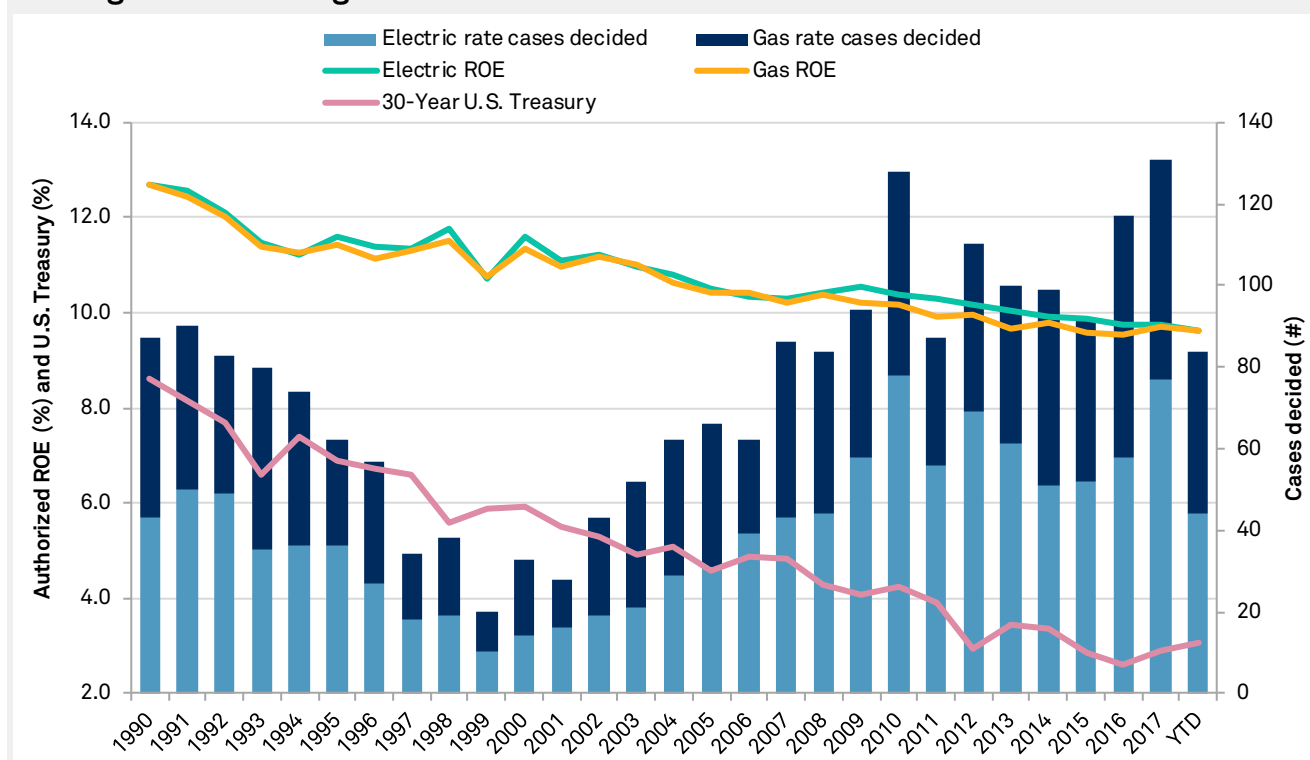
YTD = year-to-date, through Sept. 30, 2018.

Source: Regulatory Research Associates, an offering of S&P Global Market Intelligence

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Average electric and gas authorized ROEs and number of rate cases decided


Data compiled Oct. 10, 2018.

YTD = year-to-date, through Sept. 30, 2018.

Source: Regulatory Research Associates, an offering of S&P Global Market Intelligence

Increased costs associated with environmental compliance, generation and delivery infrastructure upgrades and expansion, renewable generation mandates and employee benefits argue for the continuation of an active rate case agenda over the next few years. In addition, the need to address the impacts of the federal tax reform is causing rate case agendas to be more active than previously expected.

In addition, rising interest rates could also contribute to increased rate case activity. If the U.S. Federal Reserve, or the Fed, continues its policy initiated in 2015 to gradually raise the federal funds rate, utilities will likely face higher capital costs and need to initiate rate cases to reflect the higher capital costs in rates.

In September 2018, the Fed raised the benchmark federal funds rate by a quarter point, bringing the rate to a target range of 2.00% to 2.25%. The latest hike was the third increase in 2018 and the eighth since the Fed's tightening cycle began in 2015. One more hike is anticipated in December 2018, and as the U.S. economy continues to expand and labor markets remain strong, the Fed is expected to continue to gradually raise the federal fund rates in 2019.

A more granular look at ROE trends

The discussion thus far has looked broadly at trends in authorized ROEs; the sections that follow provide a more granular view based upon the types of proceedings/decisions in which these ROEs were established.

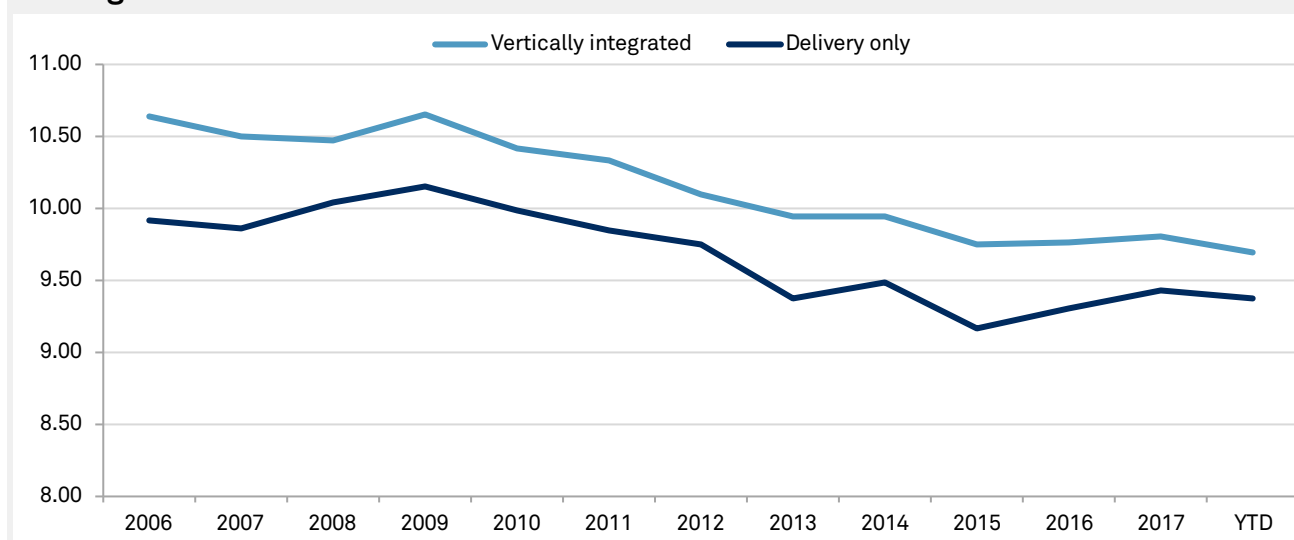
RRA has observed that there can be significant differences between the ROE averages from one subcategory of cases to another.

As a result of electric industry restructuring, certain states unbundled electric rates and implemented retail competition for generation. Commissions in those states now have jurisdiction only over the revenue requirement and return parameters for delivery operations.

Comparing electric vertically integrated cases versus delivery-only proceedings, RRA finds that the annual average authorized ROEs in vertically integrated cases typically are about 30 to 70 basis points higher than in delivery-only cases, arguably reflecting the increased risk associated with ownership and operation of generation assets.

For vertically integrated electric utilities, the average ROE authorized was 9.69% in cases decided during the first three quarters of 2018 versus 9.8% for cases decided in calendar-2017. For electric distribution-only utilities, the average ROE authorized in the first three quarters of 2018 was 9.38% versus 9.43% in all of 2017.

Average authorized electric ROEs



Data compiled Oct. 10, 2018.

YTD = year-to-date, through Sept. 30, 2018.

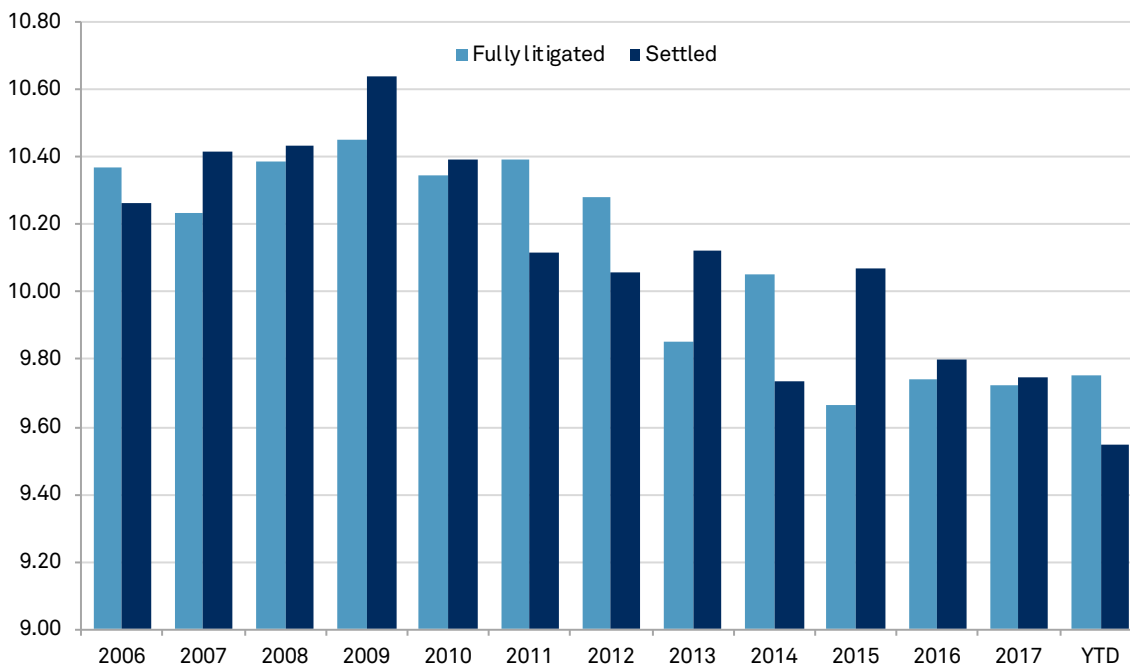
Source: Regulatory Research Associates, an offering of S&P Global Market Intelligence

Settlements have frequently been used to resolve rate cases over the last several years, and in many cases, these settlements are “black box” in nature and do not specify the ROE and other typical rate case parameters underlying the stipulated rate change. However, some states preclude this type of treatment, and so, settlements must specify these values if not the specific adjustments from which these values were derived.

For both electric and gas cases, RRA has found no discernible pattern in the average authorized ROEs in cases that were settled versus those that were fully litigated. In some years, the average authorized ROE was higher for fully litigated cases, in others, it was higher for settled cases, and in a handful of years, the authorized ROE was similar for both fully litigated and settled cases.

Over the last several years, the annual average authorized ROEs in electric cases that involve limited-issue riders was typically at least 70 basis points higher than in general rate cases, driven by the ROE premiums authorized in Virginia. Limited-issue rider cases in which an ROE is determined have had extremely limited use in the gas industry.

Average authorized electric ROEs, settled versus fully litigated cases

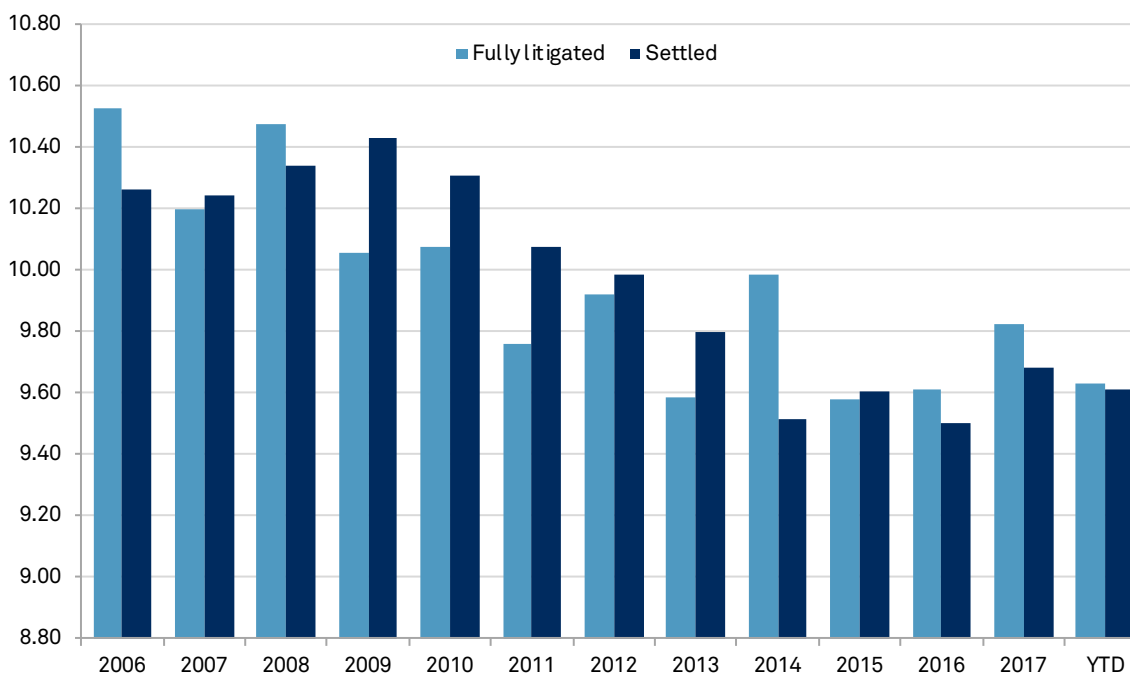


Data compiled Oct. 10, 2018.

YTD = year-to-date, through Sept. 30, 2018.

Source: Regulatory Research Associates, an offering of S&P Global Market Intelligence

Average authorized gas ROEs, settled versus fully litigated cases



Data compiled Oct. 10, 2018.

YTD = year-to-date, through Sept. 30, 2018.

Source: Regulatory Research Associates, an offering of S&P Global Market Intelligence

The table on page 6 shows the average ROE authorized in major electric and gas rate decisions annually since 1990 and by quarter since 2014, followed by the number of observations in each period. The tables on page 7 indicate the composite electric and gas industry data for all major cases, summarized annually since 2004 and by quarter for the past six quarters.

Included in the tables beginning on page 8 of this report are comparisons, since 2006, of average authorized ROEs for settled versus fully litigated cases, general rate cases versus limited issue rider proceedings and vertically integrated cases versus delivery-only cases.

The individual electric and gas cases decided in 2018 are listed on pages 10 and 11, with the decision date shown first, followed by the company name, the abbreviation for the state issuing the decision, the authorized rate of return, or ROR, the ROE and the percentage of common equity in the adopted capital structure. Next, we indicate the month and year in which the adopted test year ended, whether the commission utilized an average or a year-end rate base and the amount of the permanent rate change authorized. The dollar amounts represent the permanent rate change ordered at the time decisions were rendered. Fuel adjustment clause rate changes are not reflected in this study.

The simple mean is utilized for the return averages. In addition, the average equity returns indicated in this report reflect the ROEs approved in cases that were decided during the specified time periods and are not necessarily representative of either the average currently authorized ROEs for utilities industrywide or the returns actually earned by the utilities.

Please note: In an effort to align data presented in this report with data available in S&P Global Market Intelligence's online database, earlier historical data provided in previous reports may not match historical data in this report due to certain differences in presentation, including the treatment of cases that were withdrawn or dismissed.

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ROEs authorized January 1990 - September 2018							
Year	Period	Electric utilities			Gas utilities		
		Average ROE (%)	Median ROE (%)	Number of observations	Average ROE (%)	Median ROE (%)	Number of observations
1990	Full year	12.70	12.77	38	12.68	12.75	33
1991	Full year	12.54	12.50	42	12.45	12.50	31
1992	Full year	12.09	12.00	45	12.02	12.00	28
1993	Full year	11.46	11.50	28	11.37	11.50	40
1994	Full year	11.21	11.13	28	11.24	11.27	24
1995	Full year	11.58	11.45	28	11.44	11.30	13
1996	Full year	11.40	11.25	18	11.12	11.25	17
1997	Full year	11.33	11.58	10	11.30	11.25	12
1998	Full year	11.77	12.00	10	11.51	11.40	10
1999	Full year	10.72	10.75	6	10.74	10.65	6
2000	Full year	11.58	11.50	9	11.34	11.16	13
2001	Full year	11.07	11.00	15	10.96	11.00	5
2002	Full year	11.21	11.28	14	11.17	11.00	19
2003	Full year	10.96	10.75	20	10.99	11.00	25
2004	Full year	10.81	10.70	21	10.63	10.50	22
2005	Full year	10.51	10.35	24	10.41	10.40	26
2006	Full year	10.32	10.23	26	10.40	10.50	15
2007	Full year	10.30	10.20	38	10.22	10.20	35
2008	Full year	10.41	10.30	37	10.39	10.45	32
2009	Full year	10.52	10.50	40	10.22	10.26	30
2010	Full year	10.37	10.30	61	10.15	10.10	39
2011	Full year	10.29	10.17	42	9.92	10.03	16
2012	Full year	10.17	10.08	58	9.94	10.00	35
2013	Full year	10.03	9.95	49	9.68	9.72	21
	1st quarter	10.23	9.86	8	9.54	9.60	6
	2nd quarter	9.83	9.70	5	9.84	9.95	8
	3rd quarter	9.87	9.78	12	9.45	9.33	6
	4th quarter	9.78	9.80	13	10.28	10.20	6
2014	Full year	9.91	9.78	38	9.78	9.78	26
	1st quarter	10.37	9.83	9	9.47	9.05	3
	2nd quarter	9.73	9.60	7	9.43	9.50	3
	3rd quarter	9.40	9.40	2	9.75	9.75	1
	4th quarter	9.62	9.55	12	9.68	9.75	9
2015	Full year	9.85	9.65	30	9.60	9.68	16
	1st quarter	10.29	10.50	9	9.48	9.50	6
	2nd quarter	9.60	9.60	7	9.42	9.52	6
	3rd quarter	9.76	9.80	8	9.47	9.50	4
	4th quarter	9.57	9.58	18	9.68	9.73	10
2016	Full year	9.77	9.75	42	9.54	9.50	26
	1st quarter	9.87	9.60	15	9.60	9.25	3
	2nd quarter	9.63	9.50	14	9.47	9.60	7
	3rd quarter	9.66	9.60	5	10.14	9.90	6
	4th quarter	9.73	9.60	19	9.68	9.55	8
2017	Full year	9.74	9.60	53	9.72	9.60	24
	1st quarter	9.75	9.90	13	9.68	9.80	6
	2nd quarter	9.54	9.50	13	9.43	9.50	7
	3rd quarter	9.63	9.70	11	9.69	9.60	13
2018	Year-to-date	9.64	9.70	37	9.62	9.55	26

Year-to-date, through Sept. 30, 2018.
Data compiled Oct. 10, 2018
Source: Regulatory Research Associates, an offering of S&P Global Market Intelligence

Electric and gas utilities — summary table

	Period	ROR (%)	Number of observations	ROE (%)	Number of observations	Common equity to total capital (%)	Number of observations	Rate change amount (\$M)	Number of observations
Electric utilities									
2004	Full year	8.71	20	10.81	21	46.96	19	1,806.3	29
2005	Full year	8.44	23	10.51	24	47.34	23	936.1	31
2006	Full year	8.32	26	10.32	26	48.54	25	1,318.1	39
2007	Full year	8.18	37	10.30	38	47.88	36	1,405.7	43
2008	Full year	8.21	39	10.41	37	47.94	36	2,823.2	44
2009	Full year	8.24	40	10.52	40	48.57	39	4,191.7	58
2010	Full year	8.01	62	10.37	61	48.63	57	4,921.9	78
2011	Full year	8.00	43	10.29	42	48.26	42	2,595.1	56
2012	Full year	7.95	51	10.17	58	50.69	52	3,080.7	69
2013	Full year	7.66	45	10.03	49	49.25	43	3,328.6	61
2014	Full year	7.60	32	9.91	38	50.28	35	2,053.7	51
2015	Full year	7.38	35	9.85	30	49.54	30	1,891.5	52
2016	Full year	7.28	41	9.77	42	48.91	41	2,332.1	57
	1st quarter	6.97	15	9.87	15	47.95	15	1,028.3	24
	2nd quarter	7.11	9	9.63	14	48.77	9	597.0	19
	3rd quarter	7.43	5	9.66	5	49.63	5	558.6	10
	4th quarter	7.32	19	9.73	19	49.51	19	563.8	24
2017	Full year	7.18	48	9.74	53	48.90	48	2,747.7	77
	1st quarter	6.89	13	9.75	13	48.89	13	592.6	14
	2nd quarter	6.78	13	9.54	13	47.94	13	372.4	18
	3rd quarter	7.10	11	9.63	11	51.15	11	269.2	13
2018	Year-to-date	6.91	37	9.64	37	49.23	37	1,234.2	45
Gas utilities									
2004	Full year	8.51	23	10.63	22	45.81	22	306.0	33
2005	Full year	8.24	29	10.41	26	48.40	24	465.4	35
2006	Full year	8.44	17	10.40	15	47.24	16	392.5	23
2007	Full year	8.11	31	10.22	35	48.47	28	645.3	43
2008	Full year	8.49	33	10.39	32	50.35	32	700.0	40
2009	Full year	8.15	29	10.22	30	48.49	29	438.6	36
2010	Full year	7.99	40	10.15	39	48.70	40	776.5	50
2011	Full year	8.09	18	9.92	16	52.49	14	367.0	31
2012	Full year	7.98	30	9.94	35	51.13	32	264.0	41
2013	Full year	7.43	21	9.68	21	50.60	20	498.7	40
2014	Full year	7.65	27	9.78	26	51.11	28	544.2	48
2015	Full year	7.34	16	9.60	16	49.93	16	494.1	40
2016	Full year	7.08	28	9.54	26	50.06	26	1,263.8	59
	1st quarter	7.20	2	9.60	3	51.57	3	71.0	9
	2nd quarter	7.27	5	9.47	7	49.15	5	85.3	13
	3rd quarter	7.07	8	10.14	6	46.58	7	128.6	17
	4th quarter	7.43	9	9.68	8	52.30	9	125.8	15
2017	Full year	7.26	24	9.72	24	49.88	24	410.7	54
	1st quarter	7.14	5	9.68	6	51.05	6	198.0	9
	2nd quarter	7.08	7	9.43	7	50.83	6	73.8	11
	3rd quarter	6.86	15	9.69	13	48.55	15	272.8	20
2018	Year-to-date	6.97	27	9.62	26	49.61	27	544.6	40

Year-to-date, through Sept. 30, 2018.

Data compiled Oct. 10, 2018

Source: Regulatory Research Associates, an offering of S&P Global Market Intelligence

Electric authorized ROEs: 2006 - September 2018

Settled versus fully litigated cases

Year	All cases			Settled cases			Fully litigated cases		
	Average ROE (%)	Median ROE (%)	Number of observations	Average ROE (%)	Median ROE (%)	Number of observations	Average ROE (%)	Median ROE (%)	Number of observations
2006	10.32	10.23	26	10.26	10.25	11	10.37	10.12	15
2007	10.30	10.20	38	10.42	10.33	14	10.23	10.15	24
2008	10.41	10.30	37	10.43	10.25	17	10.39	10.54	20
2009	10.52	10.50	40	10.64	10.62	16	10.45	10.50	24
2010	10.37	10.30	61	10.39	10.30	34	10.35	10.10	27
2011	10.29	10.17	42	10.12	10.07	16	10.39	10.25	26
2012	10.17	10.08	58	10.06	10.00	29	10.28	10.25	29
2013	10.03	9.95	49	10.12	9.98	32	9.85	9.75	17
2014	9.91	9.78	38	9.73	9.75	17	10.05	9.83	21
2015	9.85	9.65	30	10.07	9.72	14	9.66	9.62	16
2016	9.77	9.75	42	9.80	9.85	17	9.74	9.60	25
2017	9.74	9.60	53	9.75	9.60	29	9.73	9.56	24
2018 YTD	9.64	9.70	37	9.55	9.62	20	9.75	9.73	17

General rate cases versus limited-issue riders

Year	All cases			General rate cases			Limited issue riders		
	Average ROE (%)	Median ROE (%)	Number of observations	Average ROE (%)	Median ROE (%)	Number of observations	Average ROE (%)	Median ROE (%)	Number of observations
2006	10.32	10.23	26	10.34	10.25	25	9.80	9.80	1
2007	10.30	10.20	38	10.32	10.23	36	9.90	9.90	1
2008	10.41	10.30	37	10.37	10.30	35	11.11	11.11	2
2009	10.52	10.50	40	10.52	10.50	38	10.55	10.55	2
2010	10.37	10.30	61	10.29	10.26	58	11.87	12.30	3
2011	10.29	10.17	42	10.19	10.14	40	12.30	12.30	2
2012	10.17	10.08	58	10.02	10.00	51	11.57	11.40	6
2013	10.03	9.95	49	9.82	9.82	40	11.34	11.40	7
2014	9.91	9.78	38	9.76	9.75	32	10.96	11.00	5
2015	9.85	9.65	30	9.60	9.53	23	10.87	11.00	6
2016	9.77	9.75	42	9.60	9.60	32	10.31	10.55	10
2017	9.74	9.60	53	9.68	9.60	42	10.01	9.95	10
2018 YTD	9.64	9.70	37	9.59	9.62	28	9.80	10.20	9

Vertically integrated cases versus delivery-only cases

Year	All cases			Vertically integrated cases			Delivery only cases		
	Average ROE (%)	Median ROE (%)	Number of observations	Average ROE (%)	Median ROE (%)	Number of observations	Average ROE (%)	Median ROE (%)	Number of observations
2006	10.32	10.23	26	10.63	10.54	15	9.91	10.03	10
2007	10.30	10.20	38	10.50	10.45	26	9.86	9.98	10
2008	10.41	10.30	37	10.48	10.47	26	10.04	10.25	9
2009	10.52	10.50	40	10.66	10.66	28	10.15	10.30	10
2010	10.37	10.30	61	10.42	10.40	41	9.98	10.00	17
2011	10.29	10.17	42	10.33	10.20	28	9.85	10.00	12
2012	10.17	10.08	58	10.10	10.20	39	9.75	9.73	12
2013	10.03	9.95	49	9.95	10.00	31	9.37	9.36	9
2014	9.91	9.78	38	9.94	9.90	19	9.49	9.55	13
2015	9.85	9.65	30	9.75	9.70	17	9.17	9.07	6
2016	9.77	9.75	42	9.77	9.78	20	9.31	9.33	12
2017	9.74	9.60	53	9.80	9.65	28	9.43	9.55	14
2018 YTD	9.64	9.70	37	9.69	9.77	19	9.38	9.35	9

YTD = year-to-date, through Sept. 30, 2018.

Data compiled Oct. 10, 2018

Source: Regulatory Research Associates, an offering of S&P Global Market Intelligence

Gas average authorized ROEs: 2006 - September 2018

Settled versus fully litigated cases

Year	All cases			Settled cases			Fully litigated cases		
	Average ROE (%)	Median ROE (%)	Number of observations	Average ROE (%)	Median ROE (%)	Number of observations	Average ROE (%)	Median ROE (%)	Number of observations
2006	10.40	10.50	15	10.26	10.20	7	10.53	10.80	8
2007	10.22	10.20	35	10.24	10.18	22	10.20	10.40	13
2008	10.39	10.45	32	10.34	10.28	20	10.47	10.68	12
2009	10.22	10.26	30	10.43	10.40	13	10.05	10.15	17
2010	10.15	10.10	39	10.30	10.15	12	10.08	10.10	27
2011	9.92	10.03	16	10.08	10.08	8	9.76	9.80	8
2012	9.94	10.00	35	9.99	10.00	14	9.92	9.90	21
2013	9.68	9.72	21	9.80	9.80	9	9.59	9.60	12
2014	9.78	9.78	26	9.51	9.50	11	9.98	10.10	15
2015	9.60	9.68	16	9.60	9.60	11	9.58	9.80	5
2016	9.54	9.50	26	9.50	9.50	16	9.61	9.58	10
2017	9.72	9.60	24	9.68	9.60	17	9.82	9.50	7
2018 YTD	9.62	9.55	26	9.61	9.60	15	9.63	9.50	11

General rate cases versus limited issue riders

Year	All cases			General rate cases			Limited issue riders		
	Average ROE (%)	Median ROE (%)	Number of observations	Average ROE (%)	Median ROE (%)	Number of observations	Average ROE (%)	Median ROE (%)	Number of observations
2006	10.40	10.50	15	10.40	10.50	15	—	—	0
2007	10.22	10.20	35	10.22	10.20	35	—	—	0
2008	10.39	10.45	32	10.39	10.45	32	—	—	0
2009	10.22	10.26	30	10.22	10.26	30	—	—	0
2010	10.15	10.10	39	10.15	10.10	39	—	—	0
2011	9.92	10.03	16	9.91	10.05	15	10.00	10.00	1
2012	9.94	10.00	35	9.93	10.00	34	10.40	10.40	1
2013	9.68	9.72	21	9.68	9.72	21	—	—	0
2014	9.78	9.78	26	9.78	9.78	26	—	—	0
2015	9.60	9.68	16	9.60	9.68	16	—	—	0
2016	9.54	9.50	26	9.53	9.50	25	9.70	9.70	1
2017	9.72	9.60	24	9.72	9.60	24	—	—	0
2018 YTD	9.62	9.55	26	9.62	9.60	25	9.50	9.50	1

YTD = year-to-date, through Sept. 30, 2018.

Data compiled Oct. 10, 2018.

Source: Regulatory Research Associates, an offering of S&P Global Market Intelligence

Electric utility decisions

Date	Company	State	ROR (%)	ROE (%)	Common equity as % of capital	Test year	Rate base	Rate change amount (\$)	Footnotes
1/18/18	Kentucky Power Company	KY	6.44	9.70	41.68	2/17	Year-end	12.3	B
1/31/18	Public Service Company of Oklahoma	OK	6.88	9.30	48.51	12/16	Year-end	75.5	R
2/2/18	Interstate Power and Light Company	IA	7.49	9.98	49.02	12/16	Average	130.0	B, I
2/6/18	Mississippi Power Company	MS	6.62	8.58	50.45	12/18	Average	—	B, LIR, 1
2/9/18	Delmarva Power & Light Company	MD	—	—	—	9/17	—	13.4	B, D
2/9/18	Virginia Electric and Power Company	VA	7.21	10.20	50.23	3/19	Average	-6.0	LIR,2
2/14/18	Virginia Electric and Power Company	VA	7.21	10.20	50.23	3/19	Average	-11.5	LIR,3
2/20/18	Virginia Electric and Power Company	VA	7.21	10.20	50.23	3/19	Average	-24.6	LIR,4
2/21/18	Virginia Electric and Power Company	VA	6.71	9.20	50.23	3/19	Average	0.2	LIR,5
2/23/18	Duke Energy Progress, LLC	NC	7.09	9.90	52.00	12/16	Year-end	194.0	B
2/27/18	Virginia Electric and Power Company	VA	7.20	11.20	50.23	3/19	Average	14.9	LIR,6
3/12/18	ALLETE (Minnesota Power)	MN	7.06	9.25	53.81	12/17	Average	12.0	I
3/15/18	Niagara Mohawk Power Corporation	NY	6.53	9.00	48.00	3/19	Average	160.0	B, D, Z
3/20/18	Georgia Power Company	GA	—	—	—	12/18	—	-50.0	LIR,7
3/29/18	Consumers Energy Company	MI	5.89	10.00	40.89	9/18	Average	72.3	I,R,*
2018	1st quarter: averages/total		6.89	9.75	48.89			592.6	
	Observations		13	13	13			14	
4/2/18	Appalachian Power Company	VA	—	—	—	—	—	—	LIR,8
4/12/18	Indiana Michigan Power Company	MI	5.76	9.90	36.38	12/18	Average	49.1	*
4/13/18	Duke Energy Kentucky, Inc.	KY	6.83	9.73	49.25	3/19	Average	8.4	
4/18/18	Connecticut Light and Power Company	CT	7.09	9.25	53.00	12/16	Average	124.7	B, D, Z
4/18/18	DTE Electric Company	MI	5.34	10.00	36.84	10/18	Average	74.4	I, R, *
4/26/18	Public Service Company of Colorado	CO	—	—	—	—	—	—	9
4/26/18	Avista Corporation	WA	7.50	9.50	48.50	12/16	Average	10.8	
5/8/18	Kentucky Utilities Company	VA	—	—	—	12/16	—	1.8	B
5/10/18	Virginia Electric and Power Company	VA	6.71	9.20	50.23	6/18	—	2.8	LIR,10
5/16/18	Appalachian Power Company	VA	—	—	—	6/19	—	1.0	LIR,11
5/23/18	Southern Indiana Gas and Electric Company, Inc.	IN	—	—	—	10/17	Year-end	1.9	LIR
5/30/18	Indiana Michigan Power Company	IN	5.51	9.95	35.73	12/18	Year-end	153.4	B,Z
5/30/18	Northern Indiana Public Service Company	IN	—	—	—	11/17	Year-end	12.6	LIR
5/31/18	Potomac Electric Power Company	MD	7.03	9.50	50.44	12/17	—	-15.0	B, D
6/14/18	Central Hudson Gas & Electric Corporation	NY	6.44	8.80	48.00	6/19	Average	19.7	B, D, Z
6/19/18	Oklahoma Gas and Electric Company	OK	—	—	—	9/17	—	-64.0	B,12
6/22/18	Hawaiian Electric Company, Inc.	HI	7.57	9.50	57.10	12/17	Average	-0.6	B, I
6/22/18	Duke Energy Carolinas, LLC	NC	7.35	9.90	52.00	12/16	Year-end	-13.0	B,R
6/28/18	Emera Maine	ME	7.18	9.35	49.00	12/16	Average	4.5	D
6/29/18	Hawaii Electric Light Company, Inc.	HI	7.80	9.50	56.69	12/16	Average	-0.1	B, I
	2nd quarter: averages/total		6.78	9.54	47.94			372.4	
	Observations		13	13	13			18	
7/3/18	Virginia Electric and Power Company	VA	6.71	9.20	50.23	8/19	Average	3.3	LIR,13
7/3/18	Virginia Electric and Power Company	VA	7.21	10.20	50.23	8/19	Average	-11.1	LIR,14
7/10/18	Duke Energy Florida, LLC	FL	—	—	—	—	—	200.5	B, LIR, Z,15
7/25/18	Atlantic City Electric Company	NJ	—	—	—	12/18	—	—	D,16
8/8/18	Potomac Electric Power Company	DC	7.45	9.53	50.44	12/17	—	-24.1	B, D
8/21/18	Delmarva Power & Light Company	DE	6.78	9.70	50.52	12/17	—	-6.9	B, D, I
8/24/18	Narragansett Electric Company	RI	6.97	9.28	50.95	6/17	Average	28.9	B, D, Z,
8/31/18	Appalachian Power Company	WV	—	—	—	12/17	—	91.6	B, LIR, 17
9/5/18	Southwestern Public Service Company	NM	6.85	9.10	51.00	6/18	Year-end	8.1	
9/14/18	Wisconsin Power and Light Company	WI	7.09	10.00	52.00	12/20	Average	0.0	B,18
9/20/18	Madison Gas and Electric Company	WI	7.10	9.80	56.06	12/20	Average	-8.0	B
9/26/18	Otter Tail Power Company	ND	7.64	9.77	52.50	12/18	Average	7.4	B, I
9/26/18	Dayton Power and Light Company	OH	7.27	10.00	47.52	5/16	Date	29.8	B, D
							Certain		
9/27/18	Westar Energy, Inc.	KS	7.06	9.30	51.24	6/17	Year-end	-50.3	B
2018	3rd quarter: averages/total		7.10	9.63	51.15			269.2	
	Observations		11	11	11			13	
2018	YTD: averages/total		6.91	9.64	49.23			1,234.2	
	Observations		37	37	37			45	

YTD = year-to-date, through Sept. 30, 2018.

Data compiled Oct. 10, 2018.

Source: Regulatory Research Associates, an offering of S&P Global Market Intelligence

Gas utility decisions

Date	Company	State	ROR (%)	ROE (%)	Common equity as % of capital	Test year	Rate base	Rate change amount (\$)	Footnotes
1/24/18	Indiana Gas Company, Inc.	IN	—	—	—	6/17	Year-end	8.4	LIR,19
1/24/18	Southern Indiana Gas and Electric Company, Inc.	IN	—	—	—	6/17	Year-end	1.3	LIR,19
1/31/18	Northern Illinois Gas Company	IL	7.26	9.80	52.00	12/18	Average	93.5	R
2/21/18	Missouri Gas Energy	MO	7.20	9.80	54.16	12/16	Year-end	15.2	
2/21/18	Spire Missouri Inc.	MO	7.20	9.80	54.16	12/16	Year-end	18.0	
2/27/18	Atmos Energy Corporation	KS	—	—	—	9/17	—	0.8	LIR,20
2/28/18	Northern Utilities, Inc.	ME	7.53	9.50	50.00	12/16	Average	-0.1	
3/15/18	Niagara Mohawk Power Corporation	NY	6.53	9.00	48.00	3/19	Average	45.5	B, Z
3/26/18	Pivotal Utility Holdings, Inc.	FL	—	10.19	48.00	12/18	—	15.3	B, Z, I
2018	1st quarter: averages/total		7.14	9.68	51.05			198.0	
	Observations		5	6	6			9	
4/26/18	Avista Corporation	WA	7.50	9.50	48.50	12/16	Average	-2.1	
4/27/18	Liberty Utilities (EnergyNorth Natural Gas) Corp.	NH	6.80	9.30	49.21	12/16	Year-end	8.1	Z, I
5/2/18	Northern Utilities, Inc.	NH	7.59	9.50	51.70	12/16	Year-end	0.9	B, Z, I
5/3/18	Atmos Energy Corporation	KY	7.41	9.70	52.57	3/19	Average	-1.9	
5/10/18	CenterPoint Energy Resources Corp.	MN	7.12	—	—	9/18	Average	3.9	B, I
5/15/18	Atlanta Gas Light Company	GA	—	—	55.00	12/18	—	-16.0	B
5/29/18	MDU Resources Group, Inc.	MT	—	9.40	—	—	—	1.0	B
5/30/18	Baltimore Gas and Electric Company	MD	6.69	—	—	12/23	—	68.0	LIR, Z, 21
6/6/18	Liberty Utilities (Midstates Natural Gas) Corp	MO	—	9.80	—	6/17	Year-end	4.6	B
6/14/18	Central Hudson Gas & Electric Corporation	NY	6.44	8.80	48.00	6/19	Average	6.7	B, Z
6/19/18	Black Hills Kansas Gas Utility Company, LLC	KS	—	—	—	2/18	Year-end	0.6	LIR
	2nd quarter: averages/total		7.08	9.43	50.83			73.8	
	Observations		7	7	6			11	
7/16/18	Black Hills Northwest Wyoming Gas Utility Company, LLC	WY	7.75	9.60	54.00	6/17	Year-end	1.0	B
7/20/18	Cascade Natural Gas Corporation	WA	7.31	9.40	49.00	12/16	Average	-2.9	B
8/15/18	Virginia Natural Gas, Inc.	VA	6.86	9.50	48.74	8/19	Average	3.2	LIR,22
8/21/18	Delta Natural Gas Company, Inc.	KY	—	—	—	12/17	Year-end	2.2	LIR,23
8/22/18	Northern Indiana Public Service Company	IN	—	—	—	12/17	Year-end	14.2	LIR,24
8/24/18	Narragansett Electric Company	RI	7.15	9.28	50.95	6/17	Average	17.4	B, Z
8/28/18	Consumers Energy Company	MI	5.86	10.00	40.91	6/19	Average	10.6	B,*
9/5/18	Indiana Gas Company, Inc.	IN	—	—	—	12/17	Year-end	9.8	LIR,25
9/5/18	Southern Indiana Gas and Electric Company, Inc.	IN	—	—	—	12/17	Year-end	2.2	LIR,26
9/11/18	CenterPoint Energy Resources Corp.	AR	4.69	—	31.52	9/19	Year-end	5.1	B,*
9/13/18	DTE Gas Company	MI	5.56	10.00	38.30	9/19	Average	9.0	*
9/14/18	Wisconsin Power and Light Company	WI	6.97	10.00	52.00	12/18	Average	0.0	B,27
9/19/18	Northern Indiana Public Service Company	IN	6.50	9.85	46.88	12/18	Year-end	107.3	B, Z
9/19/18	Bay State Gas Company	MA	—	—	—	—	—	—	28
9/20/18	Madison Gas and Electric Company	WI	7.10	9.80	56.06	12/20	Average	4.1	B,Z
9/26/18	MDU Resources Group, Inc.	ND	7.24	9.40	51.00	12/18	Average	2.5	B, I
9/26/18	Piedmont Natural Gas Company, Inc.	SC	7.60	10.20	53.00	3/18	Year-end	-13.9	B,M
9/26/18	South Carolina Electric & Gas Co.	SC	8.05	—	49.83	3/18	Year-end	-19.7	M
9/28/18	Boston Gas Company	MA	7.01	9.50	53.04	12/16	Year-end	100.8	
9/28/18	Colonial Gas Company	MA	7.18	9.50	53.04	12/16	Year-end	17.8	
9/28/18	Columbia Gas of Maryland, Incorporated	MD	—	—	—	12/19	Average	2.0	B, LIR,29
2018	3rd quarter: averages/total		6.86	9.69	48.55			272.8	
	Observations		15	13	15			20	
2018	YTD: averages/total		6.97	9.62	49.61			544.6	
	Observations		27	26	27			40	

YTD = year-to-date, through Sept. 30, 2018.

Data compiled Oct. 10, 2018.

Source: Regulatory Research Associates, an offering of S&P Global Market Intelligence

Footnotes

A Average.

B Order followed stipulation or settlement by the parties. Decision particulars not necessarily precedent-setting or specifically adopted by the regulatory body.

CWIP Construction work in progress.

D Applies to electric delivery only.

DCt Date-certain rate base valuation.

E Estimated.

F Return on fair value rate base.

Hy Hypothetical capital structure utilized.

I Interim rates implemented prior to the issuance of final order, normally under bond and subject to refund.

LIR Limited-issue rider proceeding.

M "Make-whole" rate change based on return on equity or overall return authorized in previous case.

R Revised.

Te Temporary rates implemented prior to the issuance of final order.

Tr Applies to transmission service.

U Double leverage capital structure utilized.

YE Year-end.

Z Rate change implemented in multiple steps.

* Capital structure includes cost-free items or tax credit balances at the overall rate of return.

1 Decision adopted a company filing specifying a \$99.3 million plant-specific retail revenue requirement. According to the company, this results in an annual rate reduction of approximately \$26.8 million.

2 Rate change was approved under Rider R, which is the mechanism through which the company recovers its investment in the Bear Garden power plant.

3 Rate change was approved under Rider W, which is the mechanism through which the company recovers its investment in the Warren County generation facility.

4 Rate change was approved under Rider S, which is the mechanism through which the company recovers its investment in the Virginia City Hybrid Energy Center.

5 Rate change was approved under Rider GV, which is the mechanism through which the company recovers its investment in the Greenville County generation facility.

6 Rate change was approved under Rider B, which is the mechanism through which the company recovers the costs associated with the conversion of the Altavista, Hopewell and Southampton Power Stations to burn biomass fuels.

7 Reduction ordered to the nuclear construction cost recovery tariff associated with the company's two new units being built at its Vogtle plant.

8 Proposed acquisition of the Beech Ridge II and Hardin wind generation facilities, and an associated rider was rejected. No initial revenue requirement had been proposed.

9 Rate case dismissed.

- 10 Rate change was approved under Rider DSM, which is the mechanism through which the company is permitted to collect a cash return on demand-side management program costs.
- 11 Rate change was approved under Rider RAC-EE, which is the mechanism through which the company recovers its investment in energy efficiency programs.
- 12 ROE to be used for certain riders and AFUDC purposes is 9.5%.
- 13 Rate change was approved under Rider US-2, which is the mechanism through which the company recovers its investment in three utility-scale solar facilities: Scott Solar, Whitehouse Solar and Woodland Solar.
- 14 Rate change was approved under Rider BW, which is the mechanism through which the company recovers its investment in the Brunswick Power Station.
- 15 Rate change pertains to the company's Citrus County CC natural gas plant that is nearing completion.
- 16 Case was dismissed without prejudice.
- 17 Rate change was approved under the company's joint expanded net energy cost proceeding.
- 18 Decision freezes electric rates at 2017 levels for 2018 and 2019.
- 19 Case established the rates to be charged to customers under the company's compliance and system improvement adjustment, or CSIA, mechanism, which includes both federally mandated pipeline-safety initiatives and projects that are permitted under the state's transmission, distribution and storage system improvement charge, or TDSIC, statute.
- 20 Reflects updates to the company's gas system reliability surcharge rider since its most recent base rate case.
- 21 Rate change was approved under the company's Strategic Infrastructure Development and Enhancement, or STRIDE, rider.
- 22 Case involves the company's investment made under Virginia Steps to Advance Virginia Energy infrastructure program.
- 23 Case involves the company's pipe replacement program rider.
- 24 Case involves company's TDSIC rate adjustment mechanism.
- 25 Case involves the company's CSIA mechanism and projects that are permitted under the state's TDSIC statute.
- 26 Pertains to investments made under the company's CSIA mechanism and projects that are permitted under the state's TDSIC statute.
- 27 Freezes gas rates at 2017 levels for 2018 and 2019.
- 28 Rate case withdrawn.
- 29 Case relates to the company's investment in its STRIDE program.
- 30 Rate change was approved under the company's infrastructure replacement and improvement surcharge, or IRIS, rider through which the company recovers costs associated with its STRIDE plan.

KENTUCKY UTILITIES COMPANY

**Response to Commission Staff's Second Request for Information
Dated November 13, 2018**

Case No. 2018-00294

Question No. 40

Responding Witness: Adrien M. McKenzie

Q-40. Provide any updates to the ROE models.

A-40. Mr. McKenzie has not performed any updates to the application of the quantitative analyses included in his direct testimony.

KENTUCKY UTILITIES COMPANY

**Response to Commission Staff's Second Request for Information
Dated November 13, 2018**

Case No. 2018-00294

Question No. 41

Responding Witness: Daniel K. Arbough

- Q-41. Refer to Schedule B-2.2, page 1, line 14 and page 2, line 14, and Exhibit LEB-6. Explain how meters removed from rate base for DSM is the same amount in the base and forecast period if KU projects additions during the forecast period.
- A-41. The additions during the forecasted period were inadvertently included in the DSM communication account instead of the DSM meters account. The additions can be seen in the DSM communication account that is also excluded from base rates.

KENTUCKY UTILITIES COMPANY

**Response to Commission Staff's Second Request for Information
Dated November 13, 2018**

Case No. 2018-00294

Question No. 42

Responding Witness: Christopher M. Garrett

Q-42. Refer to Schedule B-5.2, page 4 of 6, lines 13 and 20. Confirm that "Major Storm Damage Expense" does not include amounts proposed to be included in a regulatory asset.

A-42. Confirmed.

KENTUCKY UTILITIES COMPANY

**Response to Commission Staff's Second Request for Information
Dated November 13, 2018**

Case No. 2018-00294

Question No. 43

Responding Witness: Christopher M. Garrett

- Q-43. Refer to Schedule B-6, page 2 of 2, line 3. Provide monthly account balances for the accounts included in Deferred Income Taxes.
- A-43. See attached. The Company utilized the pro rata method for its rate base calculation.

**KENTUCKY UTILITIES COMPANY
ELECTRIC
Accumulated Deferred Taxes on Income
As of April 30, 2020
Reg 1.167(l)-(h)(6)ii
(Dollars)**

<u>Line No.</u>				<u>Amount</u>	
1	Projected Accumulated Deferred Taxes at April 30, 2019			\$ 1,389,229,040	
2	Projected Accumulated Deferred Taxes at April 30, 2020			<u>1,423,572,314</u>	
3	Increase in Accumulated Deferred Taxes for the forward year			<u>\$ 34,343,274</u>	
		<u>Monthly Increase/Decrease</u>	<u>Proration</u>		
4	Balance April 30, 2019			\$ 1,389,229,040	
5	May 1-31, 2019	\$	2,861,940	335/365	2,626,714
6	June 1-30, 2019		2,861,940	304/365	2,383,643
7	July 1-31, 2019		2,861,940	274/365	2,148,415
8	August 1-31, 2019		2,861,940	243/365	1,905,346
9	September 1-30, 2019		2,861,940	213/365	1,670,118
10	October 1-31, 2019		2,861,940	182/365	1,427,049
11	November 1-30, 2019		2,861,940	151/365	1,183,980
12	December 1-31, 2019		2,861,940	123/365	964,434
13	January 1-31, 2020		2,861,940	92/365	721,366
14	February 1-28, 2020		2,861,940	62/365	486,138
15	March 1-31, 2020		2,861,940	31/365	243,069
16	April 1-30, 2020		2,861,940	1/365	<u>7,841</u>
17	Pro rata Balance April 30, 2020			<u>\$ 1,404,997,153</u>	

KENTUCKY UTILITIES COMPANY

DEFERRED TAX BALANCES

Accounts 190, 282, & 283

	Apr 2019	May 2019	Jun 2019	Jul 2019	Aug 2019	Sep 2019	Oct 2019	Nov 2019	Dec 2019	Jan 2020	Feb 2020	Mar 2020	Apr 2020
Total Accumulated Deferred Income Taxes	1,389,229,040	1,389,264,063	1,403,501,731	1,403,536,754	1,403,571,778	1,414,757,397	1,414,792,420	1,414,827,444	1,427,549,905	1,427,584,929	1,427,619,952	1,424,561,183	1,423,572,314
Electric Above the Line Deferred Taxes	(1,389,229,040)	(1,389,264,063)	(1,403,501,731)	(1,403,536,754)	(1,403,571,778)	(1,414,757,397)	(1,414,792,420)	(1,414,827,444)	(1,427,549,905)	(1,427,584,929)	(1,427,619,952)	(1,424,561,183)	(1,423,572,314)
Electric Below the Line Deferred Taxes	330,021	330,021	330,021	330,021	330,021	330,021	330,021	330,021	330,021	330,021	330,021	330,021	330,021
Electric - Regulatory Assets & Liabilities	630,895,434	630,895,434	627,194,018	627,194,018	627,194,018	621,754,391	621,754,391	621,754,391	616,314,764	616,314,764	616,314,764	609,763,132	607,650,702

KENTUCKY UTILITIES COMPANY

**Response to Commission Staff’s Second Request for Information
Dated November 13, 2018**

Case No. 2018-00294

Question No. 44

Responding Witness: Lonnie E. Bellar / Daniel K. Arbough

Q-44. Refer to Schedule D-1, page 3 of 8.

- a. Refer to line 44. State how often structural inspections are performed at Dix Dam.
- b. Refer to lines 56-58. Provide the eight-year average of major planned overhauls for the base period and the forecast period.

A-44.

- a. Dix Dam structural inspections are performed every 5 years. This is in accordance with best practices in the industry. The previous inspection was performed in 2014, and the next inspections are planned for 2019 and 2024.
- b. The eight-year average of major planned overhauls for the base period and the forecast period are as follows:

Account	Base Period Eight-Year Average	Test Period Eight-Year Average
552	\$ 514,336	\$ 26,072
553	\$ 687,124	\$ 1,440,639
554	\$ 528,884	\$ 1,007,729

KENTUCKY UTILITIES COMPANY

Response to Commission Staff’s Second Request for Information

Dated November 13, 2018

Case No. 2018-00294

Question No. 45

Responding Witness: Daniel K. Arbough / Lonnie E. Bellar

Q-45. Refer to Schedule D-1, page 4 of 8.

- a. Refer to line 61. Provide intercompany purchased power and OVEC costs for the base period and the forecast period.
- b. Refer to line 73. Explain the term "depancaking costs."

A-45.

a.

	Base Period	Forecast Period
	\$	\$
Intercompany purchased power	28,744,377	35,346,555
OVEC - Energy Charges	5,097,931	5,521,730
OVEC - Demand Charges	8,371,744	11,352,373
Market Purchases	116,679	1,505,518
Purchased Power SCH D-1	<u>42,330,731</u>	<u>53,726,176</u>

- b. “Depancaking costs” are expenses resulting from the application of the Merger Mitigation Depancaking (“MMD”) mechanism in LG&E and KU’s FERC-filed Rate Schedule 402. Under MMD, transmission charges for the combined transmission system of LG&E and KU for exports to MISO are waived for certain municipalities, reducing transmission revenues paid by those municipal customers. For imports of electricity from a source in MISO for delivery to load interconnected to the LG&E and KU transmission system, certain municipalities are billed for LG&E and KU transmission charges, but LG&E and KU are obligated to credit to those municipal customers the MISO transmission charges associated with the delivery of the electricity to the MISO-LG&E/KU border. This typically results in a net payment to those municipal

customers because the MISO transmission charges exceed the LG&E and KU transmission charges.

KENTUCKY UTILITIES COMPANY

**Response to Commission Staff's Second Request for Information
Dated November 13, 2018**

Case No. 2018-00294

Question No. 46

Responding Witness: Daniel K. Arbough / Elizabeth J. McFarland

Q-46. Refer to Schedule D-1, page 6 of 8, line 106.

- a. Provide a monthly breakdown of this account for the forecast period.
- b. Explain if KU has executed new contracts to replace those expiring in May 2019. If so, provide the contract terms. If not, state when contracts are expected to be executed.

A-46.

- a. The monthly breakdown of FERC 902 for the forecast period is as follows:

Date	Jurisdictional Amount
May 2019	765,771
Jun 2019	755,703
Jul 2019	767,063
Aug 2019	772,630
Sep 2019	453,364
Oct 2019	728,501
Nov 2019	748,348
Dec 2019	742,892
Jan 2020	728,316
Feb 2020	756,555
Mar 2020	732,129
Apr 2020	745,344
Total	8,696,616

- b. A new contract has not been executed. A new contract is expected to be executed by June 1, 2019.

KENTUCKY UTILITIES COMPANY

**Response to Commission Staff's Second Request for Information
Dated November 13, 2018**

Case No. 2018-00294

Question No. 47

Responding Witness: Elizabeth J. McFarland

Q-47. Refer to Schedule D-1, page 7 of 8, line 114.

- a. Describe KU's current practice for "educating customers on their energy choices and ways to reduce their usage through energy efficiency" and how that differs from the forecast period.
- b. Explain why Informational and Instructional Advertising for energy efficiency and customer conservation is not included in the "Customer Education and Public Information" portion of KU's Demand Side Management program.

A-47.

- a. The Companies educate customers on ways to reduce their usage through energy efficiency with mass media campaigns in the Customer Education and Public Information Program (CEPI) as part of the current Demand Side Management Program (DSM). The CEPI program under DSM is designed to drive customer engagement and participation in the approved DSM programs to achieve DSM goals. In the forecast period, although the DSM programs are reduced, the Companies are maintaining their commitment to educate customers on their energy choices and ways to reduce their energy usage through energy efficiency tips that they can self-implement.
- b. The Customer Education and Public Information portion of the Company's Demand Side Management program is set to expire on December 31, 2018 in accordance with the Companies' application in Case No. 2017-00441 and the Commission's Order issued October 5, 2018. Therefore, future costs associated with customer education on energy efficiency and conservation will be included in base rates.

KENTUCKY UTILITIES COMPANY

**Response to Commission Staff's Second Request for Information
Dated November 13, 2018**

Case No. 2018-00294

Question No. 48

Responding Witness: Christopher M. Garrett

- Q-48. Refer to Schedule E-1, page 2 of 3, line 55. Confirm that KU expects to utilize the entirety of its net operating loss in the base period.
- A-48. Confirmed, KU expects to utilize all of its net operating loss carryforward in the base period.

KENTUCKY UTILITIES COMPANY

**Response to Commission Staff's Second Request for Information
Dated November 13, 2018**

Case No. 2018-00294

Question No. 49

Responding Witness: Daniel K. Arbough / Robert M. Conroy

Q-49. Refer to Schedule J-1. The jurisdictional adjusted capital increases by approximately \$431 million from the base period to the forecasted period. Provide an itemized list of each adjustment that comprises the increase, justification of the adjustment, and reference to the application supporting this adjustment. For increases associated with a capital project, include whether a Certificate of Public Convenience and Necessity has been or will be filed and the case number or expected filing date, as applicable.

A-49. Changes in capitalization cannot be tracked to individual items as capitalization is impacted by normal operating activities, capital expenditures, and financing activities. The Company does not project finance individual projects and does not assign specific financing transactions to individual projects. Each source of capital (i.e. debt and equity) is used to fund all projects. The Company has obtained the necessary Certificates of Public Convenience and Necessity ("CPCNs") required for the construction of its facilities except those considered to be ordinary extensions of its existing system in the usual course of business and do not require a CPCN in compliance with 807 KAR 5:001 Section 15(3).

The Companies have reviewed all of the new projects contained in the Companies' applications. All appear to be ordinary extensions. There are no known certificates or service of other utilities with which the proposed projects could interfere. Any replacement of existing facilities or equipment due to a facility's obsolesce or deterioration, for safety or reliability reasons, or which is part of an ongoing replacement program was not considered a wasteful duplication of facilities. This position is consistent with prior Commission decisions that have permitted the replacement of existing equipment and facilities without requiring a CPCN.⁷ It is also consistent the Commission's position that individual replacements and

⁷ See, e.g., *Application of Atmos Energy Corporation for an Adjustment of Rates*, Case No. 2009-00354, (Ky. PSC Mar. 12, 2010) (approving a 15-year pipe replacement program to replace all existing bare steel mains, service lines, curb valves, meter loops, and mandated pipe relocations); *Application of Delta Natural Gas Company, Inc. for an Adjustment of Rates*, Case No. 2010-00116 (Ky. PSC Oct. 21, 2010) (approving a pipe replacement program to replace bare steel pipe, service lines, curb valves, meter loops and complete mandated pipe relocations).

improvement projects should be assessed individually and not collectively or cumulatively.⁸ The Companies did not find any of the proposed capital expenditures to constitute a material capital outlay.

⁸ *Northern Kentucky Water District*, Case No. 2000-481, Order of Oct. 8, 2001; PSC Staff Opinion 2012-0014 (July 16, 2012).

KENTUCKY UTILITIES COMPANY

**Response to Commission Staff's Second Request for Information
Dated November 13, 2018**

Case No. 2018-00294

Question No. 50

Responding Witness: Daniel K. Arbough

- Q-50. Refer to the application, Exhibit J, Schedule J-2. Provide support for the forecasted short-term interest rates.
- A-50. The short-term interest rate projections are based on the one-month LIBOR forward curve as of June 30, 2018. The Company has assumed a .10% spread above LIBOR comprised of a .05% credit spread and a commercial paper dealer fee of .05%. See attached for the further detail.

REFORECAST

	Jul 2018	Aug 2018	Sep 2018	Oct 2018	Nov 2018	Dec 2018	Jan 2019	Feb 2019
1 Month Libor	2.09%	2.18%	2.21%	2.33%	2.40%	2.49%	2.60%	2.68%
CP Spread	0.10%	0.10%	0.10%	0.10%	0.10%	0.10%	0.10%	0.10%
Commercial Paper	2.19%	2.28%	2.31%	2.43%	2.50%	2.59%	2.70%	2.78%

REFORECAST

	Mar 2019	Apr 2019	May 2019	Jun 2019	Jul 2019	Aug 2019	Sep 2019	Oct 2019	Nov 2019	Dec 2019
1 Month Libor	2.75%	2.84%	2.91%	2.98%	3.04%	3.10%	3.15%	3.20%	3.26%	3.30%
CP Spread	0.10%	0.10%	0.10%	0.10%	0.10%	0.10%	0.10%	0.10%	0.10%	0.10%
Commercial Paper	2.85%	2.94%	3.01%	3.08%	3.14%	3.20%	3.25%	3.30%	3.36%	3.40%

REFORECAST

	Jan 2020	Feb 2020	Mar 2020	Apr 2020	May 2020	Jun 2020	Jul 2020	Aug 2020	Sep 2020	Oct 2020
1 Month Libor	3.34%	3.38%	3.38%	3.39%	3.43%	3.46%	3.42%	3.45%	3.48%	3.50%
CP Spread	0.10%	0.10%	0.10%	0.10%	0.10%	0.10%	0.10%	0.10%	0.10%	0.10%
Commercial Paper	3.44%	3.48%	3.48%	3.49%	3.53%	3.56%	3.52%	3.55%	3.58%	3.60%

REFORECAST

	Nov 2020	Dec 2020	Jan 2021	Feb 2021	Mar 2021	Apr 2021	May 2021	Jun 2021	Jul 2021	Aug 2021
1 Month Libor	3.53%	3.56%	3.59%	3.62%	3.65%	3.68%	3.71%	3.74%	3.68%	3.69%
CP Spread	0.10%	0.10%	0.10%	0.10%	0.10%	0.10%	0.10%	0.10%	0.10%	0.10%
Commercial Paper	3.63%	3.66%	3.69%	3.72%	3.75%	3.78%	3.81%	3.84%	3.78%	3.79%

REFORECAST

	Sep 2021	Oct 2021	Nov 2021	Dec 2021	Jan 2022	Feb 2022	Mar 2022	Apr 2022	May 2022	Jun 2022
1 Month Libor	3.71%	3.74%	3.76%	3.79%	3.81%	3.83%	3.86%	3.88%	3.91%	3.93%
CP Spread	0.10%	0.10%	0.10%	0.10%	0.10%	0.10%	0.10%	0.10%	0.10%	0.10%
Commercial Paper	3.81%	3.84%	3.86%	3.89%	3.91%	3.93%	3.96%	3.98%	4.01%	4.03%

REFORECAST

	Jul 2022	Aug 2022	Sep 2022	Oct 2022	Nov 2022	Dec 2022
1 Month Libor	3.92%	3.93%	3.96%	3.98%	4.00%	4.02%
CP Spread	0.10%	0.10%	0.10%	0.10%	0.10%	0.10%
Commercial Paper	4.02%	4.03%	4.06%	4.08%	4.10%	4.12%

2019-2023 Plan Interest Rate Assumptions - Based off of June 30, 2018 Forward Rates

<u>Short-Term Rates</u>	<u>Calculation</u>	<u>Explanation</u>
LIBOR	Based on 1 Mo	LIBOR based on Forward Curve at 06/30/2018 date
Commercial Paper	LIBOR + 10bps	5bps is base on an estimate of the bid/ask spread (5bps for market and 5bps broker fee)

Short-term finance Interest & Rollover

	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19
<hr/>							
KY Base Data							
<hr/>							
Kentucky Utilities							
Interest Rate - STD	2.19%	2.28%	2.31%	2.43%	2.50%	2.59%	2.70%

Short-term finance Interest & Rollover

	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19
<hr/>							
KY Base Data							
<hr/>							
Kentucky Utilities							
Interest Rate - STD	2.78%	2.85%	2.94%	3.01%	3.08%	3.14%	3.20%

Short-term finance Interest & Rollover

	Sep-19	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20
KY Base Data							
Kentucky Utilities							
Interest Rate - STD	3.25%	3.30%	3.36%	3.40%	3.44%	3.48%	3.48%

Short-term finance Interest & Rollover

	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20
KY Base Data							
Kentucky Utilities							
Interest Rate - STD	3.49%	3.53%	3.56%	3.52%	3.55%	3.58%	3.60%

Short-term finance Interest & Rollover

	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	May-21
<hr/>							
KY Base Data							
<hr/>							
Kentucky Utilities							
Interest Rate - STD	3.63%	3.66%	3.69%	3.72%	3.75%	3.78%	3.81%

Short-term finance Interest & Rollover

	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21
<hr/>							
KY Base Data							
<hr/>							
Kentucky Utilities							
Interest Rate - STD	3.84%	3.78%	3.79%	3.81%	3.84%	3.86%	3.89%

Short-term finance Interest & Rollover

	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22
<hr/>							
KY Base Data							
<hr/>							
Kentucky Utilities							
Interest Rate - STD	3.91%	3.93%	3.96%	3.98%	4.01%	4.03%	4.02%

Short-term finance Interest & Rollover

	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22
<hr/>					
KY Base Data					
<hr/>					
Kentucky Utilities					
Interest Rate - STD	4.03%	4.06%	4.08%	4.10%	4.12%

<i>1m LIBOR</i>	
LIBOR Spread (%)	
Jul-18	2.09%
Aug-18	2.18%
Sep-18	2.21%
Oct-18	2.33%
Nov-18	2.40%
Dec-18	2.49%
Jan-19	2.60%
Feb-19	2.68%
Mar-19	2.75%
Apr-19	2.84%
May-19	2.91%
Jun-19	2.98%
Jul-19	3.04%
Aug-19	3.10%
Sep-19	3.15%
Oct-19	3.20%
Nov-19	3.26%
Dec-19	3.30%
Jan-20	3.34%
Feb-20	3.38%
Mar-20	3.38%
Apr-20	3.39%
May-20	3.43%
Jun-20	3.46%
Jul-20	3.42%
Aug-20	3.45%
Sep-20	3.48%
Oct-20	3.50%
Nov-20	3.53%
Dec-20	3.56%
Jan-21	3.59%

<i>1m LIBOR</i>	
LIBOR Spread (%)	
Feb-21	3.62%
Mar-21	3.65%
Apr-21	3.68%
May-21	3.71%
Jun-21	3.74%
Jul-21	3.68%
Aug-21	3.69%
Sep-21	3.71%
Oct-21	3.74%
Nov-21	3.76%
Dec-21	3.79%
Jan-22	3.81%
Feb-22	3.83%
Mar-22	3.86%
Apr-22	3.88%
May-22	3.91%
Jun-22	3.93%
Jul-22	3.92%
Aug-22	3.93%
Sep-22	3.96%
Oct-22	3.98%
Nov-22	4.00%
Dec-22	4.02%

KENTUCKY UTILITIES COMPANY

**Response to Commission Staff's Second Request for Information
Dated November 13, 2018**

Case No. 2018-00294

Question No. 51

Responding Witness: Christopher M. Garrett / William Steven Seelye

Q-51. Refer to Att_KU_PSC_1-53_Sch_B at tab "JURISSEP B" produced in response to Staff's First Request, Item 53.

- a. Describe how the value for "TOTAL DEFERRED INCOME TAX" in cell E361 was projected and calculated.
- b. Provide workpapers and spreadsheets with all formulas intact demonstrating how cell E361 in tab "JURISSEP B" was calculated.
- c. Describe how KU calculated the jurisdictional amounts of ADIT in row 361.

A-51.

- a. The value in cell E361 represents the ending "above-the-line" net ADIT balance inclusive of the net regulatory tax liability for deferred taxes primarily attributable to excess ADIT as of 12/31/2018. Refer to the "Taxes" section in Filing Requirement Section 16(7)(c), Item A, pages 13-14, for a description of how deferred taxes are projected and calculated.
- b. See attachments being provided in Excel format.
- c. Row 361 amounts are calculated as the sum of Lines 1 through 14 (rows 342-359). The jurisdictional amounts in rows 342-359 are determined by allocating the Total Kentucky Utilities amount by the respective jurisdictional percentage per the assigned allocation factor ("ALLOC" column). The allocation factor ratios are provided in rows 1148-1347.

The attachments are
being provided in
separate files in Excel
format.

KENTUCKY UTILITIES COMPANY

**Response to Commission Staff's Second Request for Information
Dated November 13, 2018**

Case No. 2018-00294

Question No. 52

Responding Witness: Christopher M. Garrett / William Steven Seelye

Q-52. Refer to Att_KU_PSC_1-53_Sch_B at tab "JURISSEP F" produced in response to Staff's First Request, Item 53.

- a. State whether the value shown in tab "JURISSEP F" for "TOTAL DEFERRED INCOME TAX" represents the net of all of KU's deferred tax assets and deferred tax liabilities and, if not, explain what that value represents.
- b. Describe how the value for "TOTAL DEFERRED INCOME TAX" in cell E361 was projected and calculated. If the pro rata method was used, describe how the pro rata calculation was applied (i.e., was the pro rata method applied to the sum of the monthly changes for all accounts, was it applied to the monthly changes for each account represented in the totals, was it applied to some accounts but not others, what ratios were used for each month).
- c. Describe how KU calculated the jurisdictional amounts of ADIT in row 361.
- d. Provide a spreadsheet identifying every deferred tax asset account and every deferred tax liability account for April 2019 through April 2020 and providing the projected amount in each account for each month. Describe how the projected amounts for each account were determined.
- e. Provide workpapers and spreadsheets with all formulas intact demonstrating how the amounts in tab "JURISSEP F" at line 361 were calculated from the amounts shown in the corresponding deferred tax asset and deferred tax liability accounts.

A-52.

- a. Yes. The value shown for "TOTAL DEFERRED INCOME TAXES" represents the net of all "above-the-line" deferred tax assets and liabilities inclusive of the net regulatory tax liability for deferred taxes primarily attributable to excess ADIT.
- b. The value in cell E361 represents the pro rata ending "above-the-line" net ADIT balance inclusive of the net regulatory tax liability for deferred taxes primarily

attributable to excess ADIT as of 04/30/2020. The pro rata method was applied to the beginning and ending net ADIT balance in aggregate, not by individual account. See attachment to Response to Question No. 43. Also, refer to the "Taxes" section in Filing Requirement Section 16(7)(c), Item A, pages 13-14, for a description of how deferred taxes are projected and calculated.

- c. Row 361 amounts are calculated as the sum of Lines 1 through 14 (rows 342-359). The jurisdictional amounts in rows 342-359 are determined by allocating the Total Kentucky Utilities amount by the respective jurisdictional percentage per the assigned allocation factor ("ALLOC" column). The allocation factor ratios are provided in rows 1148-1347.
- d. See attachment to Response to Question No. 51(b).
- e. See attachment being provided in Excel format.

The attachment is being provided in a separate file in Excel format.

KENTUCKY UTILITIES COMPANY

**Response to Commission Staff's Second Request for Information
Dated November 13, 2018**

Case No. 2018-00294

Question No. 53

Responding Witness: Elizabeth J. McFarland / Daniel K. Arbough

Q-53. Refer to Att_KU_PSC_1-53_Sch_B at tab "PIS B" produced in response to Staff's First Request, Item 53. In the base period KU added \$2,424,972 to account E370.00 Meters. Provide an itemized schedule describing each type of meter purchased, the number of meters purchased, the purpose of the meters purchased, and the total cost of each meter type.

A-53. See itemized schedule of meter purchases below. KU and LG&E purchase a variety of meters with a wide range of unit costs. The table below is a summary level of types of meters and the associated average costs.

KU Base Year

Purpose	Item	Avg. Unit Cost	Count	Total \$
Normal Business	Single Phase Meters	\$31	6,312	\$195,264
<i>Replace retired meters, address new business and support meter testing programs.</i>	Three Phase Meters	\$101	1,152	\$116,352
	Time of Day Meters	\$219	1,152	\$252,288
	AMR (drive by) Meters	n/a	-	\$0
	Transformers	\$272	656	\$178,260
	Meter equipment, test boards, scanners, other	n/a	n/a	\$932,388
	Labor	n/a	n/a	\$654,480
AMS Opt-In	Advanced Meters	\$90	1,066	\$95,940
			TOTAL	\$2,424,972

KENTUCKY UTILITIES COMPANY

**Response to Commission Staff's Second Request for Information
Dated November 13, 2018**

Case No. 2018-00294

Question No. 54

Responding Witness: Elizabeth J. McFarland / Daniel K. Arbough

- Q-54. Refer to Att_KU_PSC_1-53_Sch_B at tab "SCH B-2.3 F" produced in response to Staff's First Request, Item 53. In the forecasted test period KU added \$2,379,407 to account E370.00 Meters. Provide an itemized schedule describing each type of meter purchased, the number of meters purchased, the purpose of the meters purchased, and the total cost of each meter type.
- A-54. See itemized schedule of meter purchases below. KU and LG&E purchase a variety of meters with a wide range of unit costs. The table below is a summary level of types of meters and the associated average costs.

KU Test Year

Purpose	Item	Avg. Unit Cost	Count	Total \$
Normal Business	Single Phase Meters	\$25	9,240	\$233,880
<i>Replace retired</i>	Three Phase Meters	\$101	1,152	\$116,352
<i>meters, address</i>	Time of Day Meters	\$580	1,000	\$580,000
<i>new business and</i>	AMR (drive by) Meters	\$40	1,500	\$60,000
<i>support meter</i>	Transformers	\$215	934	\$200,850
<i>testing programs.</i>	Meter equipment, test boards, scanners, other	n/a	n/a	\$139,000
	Labor	n/a	n/a	\$1,049,325
AMS Opt-In	Advanced Meters	n/a	n/a	\$0
			TOTAL	\$2,379,407

KENTUCKY UTILITIES COMPANY

**Response to Commission Staff's Second Request for Information
Dated November 13, 2018**

Case No. 2018-00294

Question No. 55

Responding Witness: Christopher M. Garrett

- Q-55. Refer to Att_KU_PSC_1-53_Sch_B at tab "Sch-B-6" produced in response to Staff's First Request, Item 53. Explain KU's justification for the adjustment to deferred income taxes in tab "Sch-B-6".
- A-55. As noted in footnote (a), the Adjustments amount on Schedule B-6 for Line No. 3 Deferred Income Taxes reflects the ECR and DSM deferred income tax amounts. Other rate mechanism amounts not included in base rates are removed.

KENTUCKY UTILITIES COMPANY

**Response to Commission Staff's Second Request for Information
Dated November 13, 2018**

Case No. 2018-00294

Question No. 56

Responding Witness: Christopher M. Garrett

Q-56. Refer to Att_KU_PSC_1-53_Sch_B at tab "ECR DEFTAX" produced in response to Staff's First Request, Item 53.

- a. Describe what the values in row 2 represent.
- b. Describe how the values in row 2 were projected and calculated for the period from April 2019 through April 2020.
- c. State whether the "13MOAVG" value in tab "ECR DEFTAX" at cell AD2 was calculated in the same manner as the "TOTAL DEFERRED INCOME TAX" value in tab "JURISSEP F" at cell E361 and, if not, explain why different methods were used.

A-56.

- a. The values in row 2 represent monthly ADIT balances related to ECR projects which are eliminated from base rates through a pro forma adjustment.
- b. The values in row 2 were projected and calculated based on book versus tax depreciation differences on ECR assets.
- c. No. The "13MOAVG" value in tab "ECR DEFTAX" at cell AD2 was calculated using a 13-month average. The ECR mechanism does not utilize the pro rata method as monthly ending balances are utilized. The "TOTAL DEFERRED INCOME TAX" value in "JURISSEP F" was calculated using the pro rata method.

KENTUCKY UTILITIES COMPANY

**Response to Commission Staff's Second Request for Information
Dated November 13, 2018**

Case No. 2018-00294

Question No. 57

Responding Witness: Christopher M. Garrett

Q-57. Refer to Att_KU_PSC_1-53_Sch_B at tab "DSM DEFTAX" produced in response to Staff's First Request, Item 53.

- a. Describe what the values in row 2 represent.
- b. Describe how the values in row 2 were projected and calculated for the period from April 2019 through April 2020.
- c. State whether the "13MOAVG" value in tab "DSM DEFTAX" at cell AD2 was calculated in the same manner as the "TOTAL DEFERRED INCOME TAX" value in tab "JURISSEP F" at cell E361 and, if not, explain why different methods were used.

A-57.

- a. The values in row 2 represent monthly ADIT balances related to DSM projects which are eliminated from base rates through a pro forma adjustment.
- b. The values in row 2 were projected and calculated based on book versus tax depreciation differences on DSM assets.
- c. No. The "13MOAVG" value in tab "DSM DEFTAX" at cell AD2 was calculated using a 13-month average. The DSM mechanism does not utilize the pro rata method as monthly ending balances are utilized. The "TOTAL DEFERRED INCOME TAX" value in "JURISSEP F" was calculated using the pro rata method.

KENTUCKY UTILITIES COMPANY

**Response to Commission Staff's Second Request for Information
Dated November 13, 2018**

Case No. 2018-00294

Question No. 58

Responding Witness: Christopher M. Garrett

- Q-58. Refer to the Federal Energy Regulatory Commission (FERC) order issued on April 27, 2018 in the matter involving Midcontinent Independent System Operator, Inc.,¹² and others in which FERC determined that the "two-step averaging methodology" used to calculate ADIT in a future test period for ratemaking purposes resulted in unfair and unreasonable rates.
- a. State whether KU used the "two-step averaging methodology" referred to by FERC or any similar method in which a second averaging step was applied to ADIT balances calculated using the pro rata method to calculate its ADIT balance or any portion thereof in the future test year.
 - b. If KU did use a "two-step averaging methodology" to calculate its ADIT balance for the future test period, explain how KU applied the methodology and why KU contends that the methodology it used is reasonable.
- A-58.
- a. The Company did not use the two-step averaging methodology.
 - b. Not applicable.

¹² *In Re Midcontinent Independent System Operator, Inc., et. al.*, 163 FERC P 61, 061, 2018 WL 2017529 (FERC Apr. 27, 2018).

KENTUCKY UTILITIES COMPANY

**Response to Commission Staff's Second Request for Information
Dated November 13, 2018**

Case No. 2018-00294

Question No. 59

Responding Witness: Christopher M. Garrett

- Q-59. State whether KU used the "with or without" method to determine the extent to which net operating loss carryforwards (NOL carryforwards) should be attributed to accelerated depreciation of utility property in a given tax year. If so, describe how KU applies the "with or without" method. If not, describe how KU determines the extent to which NOL carryforwards are attributable to accelerated tax depreciation of utility property in a given tax year.
- A-59. The Company used the "with or without" method to determine the extent to which net operating loss carryforwards (NOL carryforwards) should be attributed to accelerated depreciation of utility property in a given tax year.

The Company calculated the NOL carryforward amount by removing the accelerated tax depreciation (Bonus depreciation and Modified Accelerated Cost Recovery System depreciation) deduction for the year and replacing it with the straight-line (book) depreciation deduction. The Company then compared the federal taxable income without accelerated depreciation to with accelerated depreciation.

The result of using the "with or without" method was the NOL carryforward was caused by accelerated depreciation.

KENTUCKY UTILITIES COMPANY

**Response to Commission Staff's Second Request for Information
Dated November 13, 2018**

Case No. 2018-00294

Question No. 60

Responding Witness: Christopher M. Garrett

Q-60. State whether and, if so, describe how KU allocates NOL carryforwards generated in a particular tax year amongst specific utility properties that were depreciated in an accelerated manner for tax purposes during that year.

A-60. The Company does not allocate NOLs to specific utility properties.

KENTUCKY UTILITIES COMPANY

**Response to Commission Staff's Second Request for Information
Dated November 13, 2018**

Case No. 2018-00294

Question No. 61

Responding Witness: Christopher M. Garrett

Q-61. If NOL carryforwards are generated in a particular tax year by the accelerated depreciation of multiple public utility properties, describe how KU allocates the use of any portion of those NOL carryforwards to reduce tax expense in future years amongst those properties to determine the extent to which the remaining NOL carryforwards should be attributed to the accelerated depreciation of each such property.

A-61. The Company does not allocate the NOL carryforwards among properties.

KENTUCKY UTILITIES COMPANY

**Response to Commission Staff's Second Request for Information
Dated November 13, 2018**

Case No. 2018-00294

Question No. 62

Responding Witness: Christopher M. Garrett

- Q-62. If KU generated \$500,000 in NOL carryforwards in Year 1 and \$500,000 in NOL carryforwards in Year 2 (both arising from accelerated tax depreciation of utility property) and used \$400,000 in NOL carryforwards in Year 3 to reduce tax expense, describe how KU would allocate the use of the NOL carryforwards amongst the NOL carryforwards generated in Year 1 and Year 2. State whether KU's allocation of the NOL carryforwards would be different if the NOL carryforwards generated in Year 1 did not arise from accelerated tax depreciation.
- A-62. In this hypothetical example the Company would utilize \$400,000 of NOL carryforwards arising from Year 1 to offset the taxable income in Year 3. The Company's NOL carryforward utilization is solely dependent on taxable income and all excess ADIT attributable to NOL carryforwards are considered protected.

The Company, however, projects that all of the NOL carryforward will be used in the base period and there will be no carryforward to the forecasted test period.

KENTUCKY UTILITIES COMPANY

**Response to Commission Staff's Second Request for Information
Dated November 13, 2018**

Case No. 2018-00294

Question No. 63

Responding Witness: Christopher M. Garrett

- Q-63. Describe how KU treats ADIT and excess ADIT arising from accelerated tax depreciation of public utility property for ratemaking purposes when the property that gave rise to the ADIT or excess ADIT is removed from service before the ADIT or excess ADIT is amortized (i.e., before the property is fully depreciated), and explain the bases for that treatment. State whether KU treats deferred tax assets and deferred tax liabilities arising from accelerated tax depreciation of public utility property in the same manner for ratemaking purposes when public utility property, the depreciation of which generated the assets and liabilities, is taken out of service. If KU does not treat them in the same manner, explain how and why the deferred tax assets and deferred tax liabilities are treated differently.
- A-63. The Company removes both the ADIT and excess ADIT balances in the year that the assets are retired. The Company recognizes either a tax gain or loss at the time of retirement resulting in the associated temporary difference attributable to the asset fully reversing.

The Company treats deferred tax assets and deferred tax liabilities in the same manner.

KENTUCKY UTILITIES COMPANY

**Response to Commission Staff's Second Request for Information
Dated November 13, 2018**

Case No. 2018-00294

Question No. 64

Responding Witness: Daniel K. Arbough

- Q-64. State whether KU included any penalties or fines pursuant to KRS 367.4917 in the base or forecasted period. If so, provide the location of these amounts.
- A-64. There are no penalties/fines pursuant to KRS 367.4917 included in the base or forecasted period.

KENTUCKY UTILITIES COMPANY

**Response to Commission Staff's Second Request for Information
Dated November 13, 2018**

Case No. 2018-00294

Question No. 65

Responding Witness: Daniel K. Arbough / Christopher M. Garrett / William Steven Seelye

- Q-65. Refer to KU's Responses to Staff's First Request, Item 13.b. The 10-year average ratio of actual to budgeted capital construction (slippage factors) for 2008 through 2017 is 96.027 percent for the Non-Mechanism Capital Construction Projects.
- a. Assuming all other factors are unchanged, recalculate KU's forecasted revenue requirement, rate base, capital structure and cost-of-service study to take into account the use of a slippage factor of 96.027 for all monthly Non-Mechanism Capital Construction Projects expenditures beginning July 1, 2018, through the end of the forecasted period, April 30, 2020.
 - b. Provide copies of all workpapers, state all assumptions, and show all calculations used to determine the effect of the slippage factor to each forecasted element of revenue requirement, rate base, and cost-of-service study.
 - c. Provide copies of all schedules, supporting calculations, and documentation requested in Item 1.b in Excel spreadsheet format with formulas intact and unprotected, and all rows and columns fully accessible.
- A-65. As stated in response to PSC 1-13, KU did not recognize a Slippage Factor for capital additions in either the base period or the forecasted test period. The requested calculations of the slippage factor of 96.027% for KU on capital projects that are recovered in base rates continue to demonstrate the reasonableness of KU's accuracy in projecting capital additions. Given the reasonable accuracy demonstrated, the need to apply a Slippage Factor does not exist and the Commission should decline to do so for the reasons identified in KU's Response to PSC 1-13.
- a. The impact on the KU revenue requirement for the forecasted test year is a reduction of \$2,685,522.
 - b. The assumptions used, except for the application of the slippage factor requested, have not changed from those contained in the written direct testimony of Daniel K. Arbough and David S. Sinclair and provided in the

Filing Requirement Section 16(7)(c). For copies of all workpapers see the attachments being provided in Excel format in part c.

- c. See the attachments being provided in Excel format.

The attachments are
being provided in
separate files in Excel
format.

KENTUCKY UTILITIES COMPANY

**Response to Commission Staff's Second Request for Information
Dated November 13, 2018**

Case No. 2018-00294

Question No. 66

Responding Witness: Daniel K. Arbough

Q-66. Refer to KU's Responses to Staff's First Request, Item 17.

- a. For each construction project that is projected to be completed and placed into service during the forecasted period, provide the information requested in the table below, beginning January 1, 2019, through the beginning of the forecasted test period:

Line No	Project No.	Description of Project	Estimated Date Projected to be Placed In Service	Estimated Cost at Completion
---------	-------------	------------------------	--	------------------------------

- b. For each construction project that is projected to be completed and placed into service during the forecasted test period ending April 30, 2020, provide the information requested in the table below:

Line No	Project No.	Description of Project	Estimated Date Projected to be Placed In Service	Estimated Cost at Completion	13-Month Average Cost at Completion
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- c. Provide copies of the schedules requested in Items 2.a and 2.b in Excel spreadsheet format with formulas intact and unprotected, and all rows and columns fully accessible.

A-66.

- a. See attachment being provided in Excel format.
- b. See attachment provided in response to part a.
- c. See the response to parts a. and b.

The attachment is being provided in a separate file in Excel format.

KENTUCKY UTILITIES COMPANY

**Response to Commission Staff's Second Request for Information
Dated November 13, 2018**

Case No. 2018-00294

Question No. 67

Responding Witness: Daniel K. Arbough

Q-67. Refer to KU's Responses to Staff's First Request, Item 18.

- a. For each construction project that KU has projected included in the Construction Work In Progress as of the forecasted test period ending April 30, 2020, provide the information requested in the table below:

Line No	Project No.	Description of Project	Date Construction Began	Estimated Completion Date	Original Total Estimate Project Cost	Estimated Cost at Completion	13-Month Average Cost in Rate Base
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- b. Provide copies of the schedule requested in Items 3.a in Excel spreadsheet format with formulas intact and unprotected, and all rows and columns fully accessible.

A-67.

- a. See attachment being provided in Excel format.
- b. See the response to part a.

The attachment is being provided in a separate file in Excel format.

KENTUCKY UTILITIES COMPANY

**Response to Commission Staff's Second Request for Information
Dated November 13, 2018**

Case No. 2018-00294

Question No. 68

Responding Witness: Lonnie E. Bellar / Christopher M. Garrett

Q-68. Refer to the Testimony of Christopher M. Garrett at page 40, lines 12-19.

- a. Mr. Garret states the remaining jurisdictional inventory value of Brown Units 1 and 2 is \$1.9 million. Provide an itemized list of the items that comprise the \$1.9 million. Include a detailed description of each item identified.
- b. KU states that it was allowed to amortize the retirement of Green River over three years. Cite in the Order in Case No. 2014-00372¹³ in which the Commission specifically discussed the retirement of Green River and approved a three-year amortization period.
- c. Provide any analysis or study performed by KU or commissioned by KU to support Mr. Garrett's statement that the majority of Brown Units 1 and 2 inventory cannot be used on the other units in the fleet or that a viable market to sell the inventory does not exist.

A-68.

- a. See attached.
- b. Refer to Appendix A in the PSC order in Case No. 2014-00372, Article I, Revenue Requirements, Section 1.5 stating a three-year amortization period for Green River retirement costs. In the same order, refer to the section marked Ordering Paragraphs, Item 2, where all provisions in Appendix A are approved.
- c. Brown inventory was analyzed based on Maximo (work management system) data. The Maximo bill of materials was compared to the Brown inventory data to identify material specific to Brown Units 1 and 2. Material identified was cross referenced to like items at other generating stations in the Companies' fleet. Material was linked by manufacture part number. Brown Units 1 and 2 inventory items that matched to other Company generating stations were submitted to warehouse supervisors for review. To date, two surplus parts firms

¹³ Case No. 2014-00372, *Application of Kentucky Utilities Company for an Adjustment of its Electric Rates* (Ky. PSC Apr. 30, 2015).

have been notified of the opportunity to buy Brown Units 1 and 2 obsolete inventory at the time of decommissioning, and neither firm has expressed an interest.

Case No. 2018-00294
Attachment to Response to PSC-2 Question No. 68(a)
Page 1 of 52
Bellar

BR 1 & 2 Inventory

INN	Description	UOM	Unit Cost	Qty	Write-off value
000438	HYDROMETER,SPECIFIC GR ,1.160-1.240	EACH	\$ 52.96	1	\$52.96
000709	ELBOW,PIPE,45 DEG ASH,4",FLGD,DURITE	EACH	\$ 291.90	1	\$291.90
000823	VALVE,GATE,RISING STEM,1-1/2",CLASS 800,A105 BODY,SW,1	EACH	\$ 88.63	1	\$88.63
000995	GAS,FREON 22,DISPOSABLE 30 LB CYL	CYLINDE	\$ 775.00	1	\$775.00
003283	PIPE,SEAMLESS,1-1/2",A106B,SCH 80	FOOT	\$ 3.89	1	\$3.89
003921	KIT,MOTOR,BALANCING	EACH	\$ -	1	\$0.00
006502	UNION,PIPE,2",SW,A105,3000 LBS	EACH	\$ 17.39	1	\$17.39
007332	CIRCUIT BD,AMPLIFIER,SERVO	EACH	\$ 277.00	1	\$277.00
007790	TEE,PIPE,1-1/2",SW,A105,3000 LBS	EACH	\$ 9.41	1	\$9.41
007792	TEE,PIPE,2",SW,A105,3000 LBS	EACH	\$ 16.54	1	\$16.54
007912	RELAY,GENERAL PUR,120 VAC,DPDT/2NO 2NC	EACH	\$ 43.32	1	\$43.32
008361	KIT\CONTACT.J TYPE/CLOSES FLAT.3 POLE.SIZE 4 STARTER.	EACH	\$ 994.00	1	\$994.00
009003	CIRCUIT BD,CONTROL	EACH	\$ -	1	\$0.00
012104	TEE,PIPE,3",SW,A105,3000 LBS	EACH	\$ 102.29	1	\$102.29
012448	VALVE,GLOBE,T PATTERN,1/2",CLASS 150,BRONZE BODY, FN	EACH	\$ 52.05	1	\$52.05
012880	AMPLIFIER,AUDIO,HANDSET/SPEAKER,90-140 VAC	EACH	\$ 458.40	1	\$458.40
016651	DIODE,RECTIFIER,1 KV,1 A,2 PINS	EACH	\$ -	1	\$0.00
017756	ELBOW,PIPE,90 DEG,1",SW,F22,3000 LBS	EACH	\$ 23.51	1	\$23.51
017778	TEE,PIPE,1",SW,F22,6000 LBS	EACH	\$ 28.24	1	\$28.24
017937	BOLT,FILLISTER HD,1/4"-20X3/4",GR.B16,STEEL	EACH	\$ -	1	\$0.00
021389	PLUNGER,SHAFT,PUMP,3/4"X9",SS	EACH	\$ 823.11	1	\$823.11
021489	RING,RETAINING,1/32"X3/8"	EACH	\$ 7.00	1	\$7.00
027083	CIRCUIT BD,INPUT,RECORDER EXPANSION	EACH	\$ -	1	\$0.00
028588	SET,PACKING,ROD,NEOPRENE,1/4"X2-3/4"X3-1/2"	EACH	\$ 26.10	1	\$26.10
030286	PIN,DOWEL,GROOVE,3/16"X1-1/16",SS	EACH	\$ 3.42	1	\$3.42
030833	DIAPHRAGM,FIBER/RUBBER,1/16"X20"	EACH		1	\$0.00
031201	HOUSING,TUBE	EACH	\$ 266.91	1	\$266.91
032418	HOSE,HYDRAULIC,FLEX,STEEL/RUBBER,2"X20"	EACH	\$ 287.00	1	\$287.00
035667	SEAL,SHAFT,OIL,2-1/4"X3-1/8"X13/32"	EACH	\$ 7.38	1	\$7.38
038130	TEE,PIPE,1",SW,A105,3000 LBS	EACH	\$ 4.63	1	\$4.63
038254	TUBE,COMBINING,8"X27-3/4",DURITE	EACH	\$ 761.00	1	\$761.00
039871	ACTUATOR,ELECTRIC,SOLENOID/SPAN,24 VAC	EACH	\$ -	1	\$0.00
040210	COUPLING\PIPE::5"::ASH::	EACH	\$ 36.30	1	\$36.30
040483	SPIDER,FAN,CW/CCW 8 ARM (DWG. D-EX-3138)	EACH	\$ 6,221.00	1	\$6,221.00
040515	TEE,PIPE,DRY ASH W/HAND HOLE,5",DURITE	EACH	\$ 799.00	1	\$799.00
041240	INDICATOR,LEVEL,OIL	EACH	\$ -	1	\$0.00
041790	BREAKER,20 A,480 VAC,3 POLE	EACH	\$ -	1	\$0.00
041812	BREAKER,10 A,600 VAC,3 POLE,EF TYPE	EACH	\$ 142.05	1	\$142.05
042239	RELAY,GENERAL PUR,D-LINE,120 VAC,2NO 2NC,10 A	EACH	\$ 51.11	1	\$51.11
042354	RELAY,GENERAL PUR,125 VDC	EACH	\$ -	1	\$0.00
042436	BREAKER,225 A,600 VAC,3 POLE,KA TYPE,1125-2250,ADJ. TRIP	EACH	\$ 1,480.00	1	\$1,480.00
042447	BREAKER,400 A,600 VAC,3 POLE	EACH	\$ -	1	\$0.00
042512	RING,SEAL,OIL,1/2"X8-3/4"X9-1/2",BRASS	EACH	\$ -	1	\$0.00
042515	RING,SEAL,OIL,3/4"X14"X16",BRASS	EACH	\$ -	1	\$0.00
042682	WASHER,NITRITE,FLAT,1-7/8" BOLT,3/16" T,3-1/8" OD	EACH	\$ -	1	\$0.00
042699	WASHER,NITRITE,FEMALE,1-1/4" BOLT,5/16" T, 2-1/8" OD,S	EACH		1	\$0.00
042773	STUD,MILLED,2-3/4"-8X24-3/4"	EACH	\$ -	1	\$0.00
042775	STUD,MILLED,1-3/4"-8X21-3/4",STEEL	EACH	\$ -	1	\$0.00
043273	BREAKER,25 A,600 VAC,3 POLE	EACH	\$ -	1	\$0.00
044363	PROBE,VIBRATION,8 MM PROZIMETER,3/8"X2-1/8"	EACH	\$ 437.00	1	\$437.00
044539	SHAFT,DRIVE,PNEUMATIC,1-3/8"X19-1/4",STEEL	EACH	\$ -	1	\$0.00
044571	BRACKET,SCALE,RECORDER,2"X10"	EACH	\$ -	1	\$0.00
044661	NUT\HEX..2"-8..STEEL...	EACH	\$ 22.35	1	\$22.35
044692	STUD,MILLED,2"-8X17",STEEL	EACH	\$ -	1	\$0.00

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INN	Description	UOM	Unit Cost	Qty	Write-off value
044834	BEARING,BALL,SGL ROW 2 SHIELDS,1.3779" BORE/C4	EACH	\$ 15.85	1	\$15.85
044917	FILTER,AIR,1"X2-3/4"X9-5/8",FIBER/STL,3 MICRON	EACH	\$ 28.55	1	\$28.55
045031	SEAL,SHAFT,OIL,3/8"X1-13/32"X2-1/8"	EACH	\$ 8.20	1	\$8.20
045032	SEAL,SHAFT,OIL,3/8"X1-19/32"X2-3/8"	EACH	\$ 10.34	1	\$10.34
046650	VANE,DIVERTER	EACH	\$ -	1	\$0.00
046714	SPRING,COIL	EACH	\$ -	1	\$0.00
046715	SPRING,COIL	EACH	\$ -	1	\$0.00
047248	VALVE,NEEDLE,BAR STOCK,1/4",SS BODY,FNPT X MNPT, 600	EACH	\$ 44.27	1	\$44.27
047374	ASSEMBLY,SIGHT GLASS	EACH	\$ 268.73	1	\$268.73
047393	GAUGE\PRESS.0-200 PSI.1/4" MNPT LOWER.2-1/2" FACE.BRASS	EACH	\$ 15.27	1	\$15.27
047402	GAUGE\PRESS.0-100 PSI.1/4" MNPT LOWER.2-1/2" FACE.BRASS	EACH	\$ 14.34	1	\$14.34
047426	KIT,FILTER,EMISSION MONITORING,CERAMIC	EACH	\$ 64.53	1	\$64.53
047427	LAMP,INCANDESCENT,TRANCEIVER/RM41 OPACITY MONITO	EACH	\$ 225.00	1	\$225.00
047432	METER,AMP,DC,0-20 A	EACH	\$ -	1	\$0.00
047436	ACTUATOR,ELECTRIC,SPRING RETURN,120 VAC,SGL PHASE	EACH	\$ 610.00	1	\$610.00
047492	CELL,SAMPLE,GLASS,50ML	EACH	\$ 26.21	1	\$26.21
047497	GAUGE,FLOW,2" MNPT,1/2"X24" FACE	EACH	\$ -	1	\$0.00
047511	VALVE,PETCOCK,1/4",BRASS BODY,MNPT,BRASS PLUG	EACH	\$ 2.46	1	\$2.46
047524	VALVE,RELIEF,SAFETY,1-1/4",BRONZE BODY,MNPT, 300# S	EACH	\$ 411.03	1	\$411.03
047780	GASKET,SPIRAL WOUND,2" PIPE,STYLE R,150-1500PSI,304SS/F	EACH	\$ 4.54	1	\$4.54
048003	CLIP, VALVE,1/2"X9/16"X5/8",SS	EACH	\$ -	1	\$0.00
048021	DISC\VALVE:::::	EACH	\$ 128.26	1	\$128.26
048475	VALVE,GLOBE,T PATTERN,1/2",CLASS 800,A105 BODY,SW,197	EACH	\$ 58.50	1	\$58.50
048527	BUSHING,PIPE,REDUCING HEX,2"X1-1/2",A105,3000 LBS	EACH	\$ 4.51	1	\$4.51
048686	KIT,REPAIR,VALVE/SOLENOID	EACH	\$ 20.85	1	\$20.85
049026	SPRING,COIL	EACH	\$ -	1	\$0.00
049030	SHAFT,TRANSFER,3/8"X2-1/8",STEEL	EACH	\$ -	1	\$0.00
049031	SPRING, INDEX	EACH	\$ -	1	\$0.00
049033	SPRING,COIL,PLUNGER	EACH	\$ -	1	\$0.00
049035	SHAFT,PUMP,STEEL	EACH	\$ -	1	\$0.00
049210	PLUG,PIPE,RAISED SQ HD,2-1/2",A105,3000 LBS	EACH	\$ 11.55	1	\$11.55
049555	CONNECTOR,TUBE,1/8"OD TO 1/8"FNPT,STEEL/ALU	EACH	\$ -	1	\$0.00
049578	CUP,CYLINDER,PNEUMATIC	EACH	\$ -	1	\$0.00
049593	KIT,DIAPHRAGM,DRAFT TRANSMITTER	EACH	\$ -	1	\$0.00
049619	SPINDLE,VALVE	EACH	\$ -	1	\$0.00
049620	COVER,END,CYLINDER,4",STEEL	EACH	\$ -	1	\$0.00
050286	HUB,COUPLING,JAW TYPE,1-1/8" BORE	EACH	\$ 16.42	1	\$16.42
050325	COUPLING,PIPE,3/4",FNPT,PVC	EACH	\$ -	1	\$0.00
050331	NIPPLE,PIPE,3/4",NYLON,MNPT	EACH	\$ -	1	\$0.00
050351	BLADE,SHUTTER,1/16"X3-3/8"X4",STEEL/TEFLON COATED	EACH	\$ 46.00	1	\$46.00
050411	HOSE,AIR DUCT,REINFORCED,STEEL/PLASTIC,3"X10F	EACH	\$ 110.88	1	\$110.88
050622	TEE,PIPE,3/4",SW,A105,3000 LBS	EACH	\$ 3.90	1	\$3.90
050755	COUPLING,DRIVE,1-15/16" BORE	EACH	\$ 259.25	1	\$259.25
050780	BLOCK,DRIVE,TAKE UP,1-1/2"X3-1/4"X4-1/4",STEEL	EACH	\$ -	1	\$0.00
051559	TRANSMITTR,PRESSURE,4-20 MA OUT	EACH	\$ -	1	\$0.00
051566	SCREEN,WIRE,TRANSMITTER,3/4",SS	EACH	\$ -	1	\$0.00
051572	PEN,RECORDER	EACH	\$ -	1	\$0.00
051659	GLASS,PORT,INSPECTION,1/2"X6-1/4"X11-1/4"	EACH	\$ 161.00	1	\$161.00
052062	FLANGE,PIPE,FLAT FACE,5-3/4"X1/4",STEEL	EACH	\$ -	1	\$0.00
052064	FLANGE, IDLER,STEEL	EACH	\$ 103.31	1	\$103.31
052076	BOLT,HEX HD,SHOULDERED,3/8"-24X1",STEEL	EACH	\$ -	1	\$0.00
052099	WASHER,THRUST,2-3/16" ID,3-5/8" OD,3/8" T,STEEL	EACH	\$ -	1	\$0.00
052101	HUB,MOUNTING,BALL THRUST,2" BORE,STEEL,2-3/8"X2-3/	EACH	\$ -	1	\$0.00
052104	RING,RETAINING,3/64"X2-1/4"X2-5/8"	EACH	\$ -	1	\$0.00

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INN	Description	UOM	Unit Cost	Qty	Write-off value
052109	SPRING,COIL,EXTENSION,STEEL	EACH	\$ 29.06	1	\$29.06
052133	PIN,DOWEL,GROOVE,3/16"X1-1/4",STEEL	EACH	\$ 1.59	1	\$1.59
053449	HOSE\WATER..SS BRAIDED.1/2"X24" ..MNPT	EACH	\$ 56.55	1	\$56.55
053641	SLINGER,OIL,1/4"X4-3/4"X9-7/8",STEEL	EACH	\$ -	1	\$0.00
053690	RING,SPACER,1/2"X3"X4",STEEL	EACH	\$ -	1	\$0.00
053795	WEIGHT,COUNTER,VIBRATOR,1-3/4"X2"X5-1/4",CI	EACH	\$ 91.00	1	\$91.00
053852	GEAR,SPUR,SCREW TUBE,80 TEETH,2-5/8" BORE,10" OD	EACH	\$ 172.35	1	\$172.35
053856	CAM,DRIVE,SOOTBLOWER/360 DEG,1"X4-1/4"X6-1/4"	EACH	\$ -	1	\$0.00
053858	CAM,DRIVE,VALVE OPERATOR,3/8"X5-1/2"X8",STEEL	EACH	\$ -	1	\$0.00
053861	RING,SEAL,TUBE/SCREW	EACH	\$ 81.46	1	\$81.46
053871	GASKET,PRECUT,COMPOSITION,1/16"X6"X10"	EACH	\$ -	1	\$0.00
053873	VALVE,PLUG,3 WAY,1-1/2",CAST STEEL,200# WOG	EACH	\$ -	1	\$0.00
053883	RING,SPACER,5/8"X1/2"X3/4",STEEL	EACH	\$ 2.39	1	\$2.39
053918	WASHER,FLAT,1-1/4" BOLT,STEEL,1/8" T,2-1/8" OD	EACH	\$ -	1	\$0.00
053942	CLAMP,PIPE,LEAK REPAIR,3",STEEL/RUBBER	EACH	\$ 56.81	1	\$56.81
054467	CHAIN,ROLLER,CHART,STEEL	EACH	\$ -	1	\$0.00
054504	CORD,DRIVE,RECORDER PEN,1/32"X23"	EACH	\$ -	1	\$0.00
055468	CLAMP,HOSE,WORM DRIVE,2-1/16",SS	EACH	\$ -	1	\$0.00
055701	STRAINER,FILTER,AIR/OIL,3/8"X3/8",SS	EACH	\$ -	1	\$0.00
056233	SPRING,COIL,COMPRESSION,STEEL	EACH	\$ -	1	\$0.00
056242	DISC,VALVE,SS	EACH	\$ -	1	\$0.00
056250	SPRING,COIL,COMPRESSION,STEEL	EACH	\$ -	1	\$0.00
056260	SCREW,HEX HD,SET,5/8"-11X3",STEEL	EACH	\$ -	1	\$0.00
056662	COVER,END,BEARING	EACH	\$ 750.00	1	\$750.00
056747	DIAPHRAGM,BRASS,1/64"X1-5/32"	EACH	\$ -	1	\$0.00
056752	STEM,VALVE,3/4"X1-1/8",BRASS	EACH	\$ -	1	\$0.00
056794	CIRCUIT BD,LOGIC,PULSE/TRIP LOGIC/OUTPUT	EACH	\$ -	1	\$0.00
056795	CIRCUIT BD,CONDITIONING,ANALOG	EACH	\$ -	1	\$0.00
056816	SHAFT,TRANSFER,1/4"X2-1/2",SS	EACH	\$ -	1	\$0.00
056818	LINK,CONNECTING,3/32"X1-1/8",SS	EACH	\$ -	1	\$0.00
056820	LINK,CONNECTING,BAR,1/8"X5-9/16",SS	EACH	\$ -	1	\$0.00
056821	LINK,ADJUSTMENT,LEVER,1/32"X1/4"X3-1/2",STEEL	EACH	\$ -	1	\$0.00
056822	LINK,CONNECTING,BRACKET,SS	EACH	\$ -	1	\$0.00
056824	LINK,ADJUSTMENT,CLIP,1/64"X1/8"X3/4",SS	EACH	\$ -	1	\$0.00
056825	WEIGHT,COUNTER,INSTRUMENT,3/8"X1/2",SS	EACH	\$ -	1	\$0.00
056826	POINTER,INSTRUMENT,INDICATOR,1/64"X1/4"X6-1/6",SS,	EACH	\$ -	1	\$0.00
056829	STEM,VALVE,3/8"X7-1/8",SS	EACH	\$ 98.10	1	\$98.10
057112	SWITCH,LEVEL,FLOAT TYPE	EACH	\$ 46.62	1	\$46.62
057729	BELLOWS,STEEL,3"	EACH	\$ -	1	\$0.00
057758	SHEAVE,V BELT,4 GROOVE,9-1/4" OD	EACH	\$ -	1	\$0.00
057938	REGULATOR,PRESSURE,35-100 PSI,1/4" FNPT	EACH	\$ 105.00	1	\$105.00
058122	BELLOWS,STEEL,PRESSURE HD STUFFING	EACH	\$ -	1	\$0.00
058565	ASSEMBLY,ROTOR,MOTOR	EACH	\$ -	1	\$0.00
058914	GAUGE,PRESS,3/8" MNPT,2" FACE	EACH	\$ 423.85	1	\$423.85
061075	STEM\VALVE.PILOT.1/8".SS..	EACH	\$ 134.00	1	\$134.00
061154	SET,PACKING,TEFLON,1/2"X1"	EACH	\$ 36.00	1	\$36.00
061248	BLOCK,TERMINAL,EB-6,20 A,12 TERMINAL,1-1/4"X2"X8-1/4"	EACH	\$ 17.20	1	\$17.20
061754	CIRCUIT BD,POWER SUPPLY	EACH	\$ 337.50	1	\$337.50
064891	KIT,REPAIR,VALVE/SOLENOID,20 PCS	EACH	\$ 103.21	1	\$103.21
066403	DIAPHRAGM,NITRILE,3"X11"X12-1/2"	EACH	\$ 36.70	1	\$36.70
067226	PIPE,ASH,10"X72",DURITE	EACH	\$ 1,080.00	1	\$1,080.00
068321	ROLLER/GUIDE.DOOR.5.875"DIA.SS W/BRONZE BUSHING.	EACH	\$ 315.50	1	\$315.50
069654	BEARING,BALL,SGL ROW 2 SHIELDS,.4724" BORE	EACH	\$ 5.78	1	\$5.78
071835	VALVE\GATE:RISING STEM:1-1/2":CLASS 150:BRONZE BODY:F	EACH	\$ 84.19	1	\$84.19

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INN	Description	UOM	Unit Cost	Qty	Write-off value
071977	UNION,PIPE,1-1/4",SW,A105,3000 LBS	EACH	\$ -	1	\$0.00
072181	COUPLING,PIPE,4",SW,A105,3000 LBS	EACH	\$ 45.18	1	\$45.18
100898	CIRCUIT BD,CONDITIONING,I/O	EACH	\$ -	1	\$0.00
100999	KIT,INSULATOR,BUSHING,2 PC	KIT	\$ 19.13	1	\$19.13
101918	VALVE,GATE,RISING STEM,4",CLASS 150,STEEL BODY WCBFL	EACH	\$ 384.22	1	\$384.22
103215	BRACKET,DIN RAIL,1/2"X1-1/4"X24"	EACH	\$ 34.93	1	\$34.93
103800	VALVE,SOLENOID,2 WAY,12 V,1/8" FNPT,TEFLON	EACH	\$ 139.30	1	\$139.30
104276	MODULE,POWER SUPPLY	EACH	\$ 480.72	1	\$480.72
106760	PREFILTER,AIR,2-3/4"X5-1/4"	EACH	\$ 102.14	1	\$102.14
106972	CAPACITOR,CERAMIC,.000001 MFD	EACH	\$ -	1	\$0.00
108020	ALTERNATOR,TWO PUMP,PUMP DOWN,480 SEC COIL VOLTAGE	EACH	\$ 1,374.94	1	\$1,374.94
108167	CARTRIDGE,STORAGE MEDI,OPTICAL DISK/594 MB	EACH	\$ 75.00	1	\$75.00
108625	FILTER,OIL,EH,1-1/2"-16,3 MICRON	EACH	\$ 13.49	1	\$13.49
109041	CIRCUIT BD,INPUT,DIGITAL SLAVE	EACH	\$ 517.50	1	\$517.50
109541	SWITCH,PRESS,DIFF,2" TO 10" H2O,120 VAC,15 A	EACH	\$ 58.00	1	\$58.00
109821	SEAT,VALVE	EACH	\$ 2,163.61	1	\$2,163.61
110136	BEARING,BALL,SGL ROW 2 SHIELDS,.6692" BORE	EACH	\$ 3.47	1	\$3.47
110815	RING,OIL,SPLIT,9/16"X8-3/4"X9-1/2",BRASS	EACH	\$ 495.00	1	\$495.00
111654	CIRCUIT BD,POWER SUPPLY,THERMAL PEN	EACH	\$ 262.00	1	\$262.00
113149	CONTROLLER,LOOP COMMAND,120 VAC	EACH	\$ 2,295.00	1	\$2,295.00
113178	SET,GASKET,BONNET/VALVE,6 PCS	SET	\$ 87.00	1	\$87.00
114358	BATTERY,LITHIUM,3 V	EACH	\$ 75.00	1	\$75.00
114664	INTEGRATOR,MECHANICAL,FLOW	EACH	\$ -	1	\$0.00
115076	RECTIFIER,SILICON CONT,GATE,800 V,600 A	EACH	\$ 271.47	1	\$271.47
115553	SUPPRESSOR,SURGE,VOLTAGE,20 OHMS	EACH	\$ 95.00	1	\$95.00
117896	THERMOWELL,REDUCED TIP,3/4"MNPT X 1/2"FNPT,.260" BORE	EACH	\$ 117.20	1	\$117.20
118017	SHUTTER,MECHANICAL,BREAKER/5HK 1200A,FIBERGLASS	EACH	\$ 275.00	1	\$275.00
118084	DETECTOR,SMOKE,7100HF,METAL/PLASTIC,135 DEGREES F,	EACH	\$ 54.86	1	\$54.86
118988	MODULE,CONTROL,SERIES 5000 ANALYZER	EACH	\$ 3,653.00	1	\$3,653.00
120676	MODULE,POWER SUPPLY,FLAME SCANNER	EACH	\$ -	1	\$0.00
120846	ELBOW\PIPE.90 DEG SEMI-SWEEP (ASSY).5"..DURITE...	EACH	\$ 1,203.70	1	\$1,203.70
121495	MONITOR,ELECTRONIC,DUAL PROBE VIBRATION,0-15 MILS	EACH	\$ -	1	\$0.00
121525	SLEEVE\SHAFT.PUMP.7/8"X1-1/8"X3-1/8".BRONZE.8.	EACH	\$ 568.25	1	\$568.25
123423	RELAY,TIMING,DELAY/OFF,0 TO 10 SEC,120 VAC,8 PIN	EACH	\$ -	1	\$0.00
124185	CONTROLLER,ELECTRONIC,ENCODER,5 VDC	POUND	\$ -	1	\$0.00
125652	CLAMP\PIPE.LEAK REPAIR.2".DUCTILE IRON.600 MAX PSI @ 7	EACH	\$ 59.13	1	\$59.13
125992	BEARING\PILLOW BLOCK:2 BOLT:2" SHAFT:::	EACH	\$ 30.34	1	\$30.34
3001011	FILTER\AIR.IN LINE W/BOWL.1/2" PORT...	EACH	\$ 159.74	1	\$159.74
3001587	TRANSMITTR\LEVEL.GUIDED WAVE RADAR....	EACH	\$ 1,655.33	1	\$1,655.33
3004051	FILTER\AIR.OPACITY MONITOR.4-3/8"X9-1/2"...	EACH	\$ 45.23	1	\$45.23
3004443	INSULATION\PIPE..3/4"X48"X50'L.ARMAFLEX	ROLL	\$ 422.00	1	\$422.00
3006784	KIT\O-RING....COOLER	EACH	\$ 1.18	1	\$1.18
3008710	KIT\FILTER.ELEMENT.	EACH	\$ 466.66	1	\$466.66
3008715	VALVE\CHANNEL.DISCHARGE/2ND STAGE..	EACH	\$ 1,075.13	1	\$1,075.13
3010315	FILTER\DEMISTER.AIR DRYER	EACH	\$ 974.87	1	\$974.87
3012676	GASKET\SPIRAL WOUND..STYLE R..304SS/FG.15/16"X1-3/8"X .1	EACH	\$ 4.88	1	\$4.88
3020380	MODULE\FIRING CKT.IFM-150 FIRING CIRCUIT CHASSIS.125 V	EACH	\$ 7,368.00	1	\$7,368.00
3021241	BEARING.....	EACH	\$ 363.38	1	\$363.38
3021242	KEY\SHAFT SLEEVE.METRIC	EACH	\$ 15.76	1	\$15.76
3021243	O-RING\RUBBER....	EACH	\$ 5.56	1	\$5.56
3024121	FILTER REGULATOR/ 1/4" NPT	EACH	\$ 250.87	1	\$250.87
006138	GASKET\PRECUT..STEEL/RUBBER.1/2"X9-1/4"X12-7/8"..CIRCUL	EACH	\$ 13.21	2	\$26.42
008116	CAP,PIPE,1-1/2",SW,A105,3000 LBS	EACH	\$ 4.87	2	\$9.74
009308	SUPPRESSOR,SURGE,150 VAC/VDC,35 VA	EACH	\$ 56.38	2	\$112.76

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INN	Description	UOM	Unit Cost	Qty	Write-off value
011539	GASKET,ASH LINE 4",NUVAFLEX	EACH	\$ 5.50	2	\$11.00
012776	GASKET,PRECUT,NEOPRENE,15/16"X1-1/2"	EACH	\$ 2.12	2	\$4.25
015061	CAPACITOR,ELECTROLYTIC,500 MFD,50 V	EACH	\$ -	2	\$0.00
015428	PIN,ADJUSTING,VALVE 4",SS	EACH	\$ -	2	\$0.00
027075	CIRCUIT BD,ALARM,RECORDER	EACH	\$ -	2	\$0.00
027654	BEARING,BALL,SGL ROW 1 SEAL,1.7717" BORE	EACH	\$ 35.08	2	\$70.17
028641	STUD,MILLED,2-1/4"-8X25",STEEL,GR B16	EACH	\$ -	2	\$0.00
028820	PWR SUPPLY,REGULATED,95/125 VAC IN	EACH	\$ -	2	\$0.00
030897	O-RING,NITRILE/BUNA,DASH #111,7/16"X5/8"X3/32"	EACH	\$ -	2	\$0.00
031475	SPRING\COIL.PAWL.STEEL.1/2"X4-1/2"...	EACH	\$ 2.78	2	\$5.56
032043	SEAL,SHAFT,OIL,1-3/8"X2-1/8"X5/16"	EACH	\$ 2.05	2	\$4.10
036369	BEARING,BALL,SGL ROW 2 SEALS,1.1811" BORE	EACH	\$ 14.90	2	\$29.80
040893	DETECTOR,THERMAL,VERTICAL MOUNT,0-190 DEG F	EACH	\$ 214.51	2	\$429.03
041219	MOTOR,AC,230/460 V,1/4 HP,1725 RPM,3 PH,48	EACH	\$ 188.66	2	\$377.32
041989	WASHER,NITRITE,FEMALE,4-1/2" BOLT,1-3/8" T,1-3/8"	EACH	\$ -	2	\$0.00
042273	TRANSFORMR,K100D1,240/480 V PRI,120 V SEC.,100 KVA	EACH	\$ 50.00	2	\$100.00
042698	WASHER,NITRITE,MALE,1-1/8" BOLT,11/32" T,2" OD	EACH	\$ -	2	\$0.00
042714	STUD,DOWEL,2"X31"/1-3/4"-8 TPI,STEEL	EACH	\$ -	2	\$0.00
043260	FINGER,BREAKER,FEMALE	EACH	\$ -	2	\$0.00
043380	DISC,RUPTURE,TYPE D,6",INC/INC	EACH	\$ 673.02	2	\$1,346.04
043561	CLAMP,FLANGE,6"	EACH	\$ 13.84	2	\$27.69
044324	MODULE,ADAPTER,REMOTE I/O	EACH		2	\$0.00
044355	PROBE,VIBRATION,1-1/4"X3-7/8",STEEL/PLASTIC	EACH	\$ 425.00	2	\$850.00
044361	SENSOR,PROXIMITY,1 IMM	EACH	\$ 302.00	2	\$604.00
044367	CIRCUIT BD,AMPLIFIER,DIFFERENTIAL EXPANSION	EACH	\$ -	2	\$0.00
044547	BELLOWS	EACH	\$ -	2	\$0.00
045926	GASKET,REF#216	EACH	\$ 3.25	2	\$6.50
046647	NOZZLE,AIR,REF#50	EACH	\$ -	2	\$0.00
046648	ASSEMBLY,BELLOWS/VANE,REF#35	EACH	\$ -	2	\$0.00
046710	MOTOR,AC,120 V,CHART DRIVE	EACH	\$ 293.47	2	\$586.94
046716	SPRING,COIL	EACH	\$ -	2	\$0.00
046724	SLEEVE	EACH	\$ 40.97	2	\$81.93
047250	VALVE,NEEDLE,2 WAY,1/4",SS BODY,FNPT,5000#,SS NEEDLE	EACH	\$ 134.70	2	\$269.41
047541	VALVE,GLOBE,T PATTERN,1/4",CLASS 125,BRONZE BODY FNPT	EACH	\$ 42.27	2	\$84.54
047567	VALVE,BALL,2 WAY,1",BRONZE BODY,FNPT,400# CWP, SS 3	EACH	\$ 64.80	2	\$129.60
047994	INSERT,COUPLING,1/2"X5-5/8",NEOPRENE	EACH	\$ -	2	\$0.00
048019	RING,LANTERN,VALVE,SS	EACH	\$ -	2	\$0.00
048041	SEAT,VALVE,CHECK/BALL,1/2"X5/8"X3/4",SS	EACH	\$ -	2	\$0.00
049023	BODY,VALVE,1/4"X15/16"X1-13/16",SS	EACH	\$ -	2	\$0.00
049028	ARM,ACTUATOR	EACH	\$ -	2	\$0.00
049042	GEAR,WORM,4 TEETH,1/2" BORE,1-3/16" OD	EACH	\$ -	2	\$0.00
049569	BELLOWS,COPPER	EACH	\$ -	2	\$0.00
050410	ASSEMBLY,SHUTTER,MECHANICAL W/SOLENOID	EACH	\$ 600.00	2	\$1,200.00
050711	BEARING,BALL,SGL ROW OPEN,.6692" BORE	EACH	\$ -	2	\$0.00
050756	LINK,CHAIN,CONVEYOR WINGED TYPE	EACH	\$ -	2	\$0.00
052059	SEAL,SHAFT,OIL,1-5/8"X2-5/8"X5/16"	EACH	\$ -	2	\$0.00
052060	SEAL,SHAFT,OIL,1-9/16"X2-7/16"X1/2"	EACH	\$ 3.51	2	\$7.02
052072	RING,RETAINING,EXT SNAP,1/16"X11/16"X13/16"	EACH	\$ -	2	\$0.00
052111	NUT,JAM,HEX,7/16"-20,STEEL	EACH	\$ -	2	\$0.00
052117	BEARING,SLEEVE,5/8" BORE	EACH	\$ -	2	\$0.00
053764	FILTER,OIL,CUNO,FIBERGLASS,50 MICRON	EACH	\$ 10.44	2	\$20.88
053797	RING,SPACER,VIBRATOR,7/8"X4-7/8"X9-1/8"	EACH	\$ 28.20	2	\$56.40
053901	GUIDE,STEM,VALVE	EACH	\$ -	2	\$0.00
053917	BOLT,HEX HD,SHOULDERED,1/2"-13X1-1/2",STEEL	EACH	\$ -	2	\$0.00

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053921	SHAFT,ROLLER	EACH	\$ -	2	\$0.00
054486	CIRCUIT BD,RELAY,RECORDER INPUT	EACH	\$ -	2	\$0.00
055149	GASKET,PRECUT,COMBINING TUBE	EACH	\$ 13.18	2	\$26.36
055467	KIT,REPAIR,SHIELD/HEAT	EACH	\$ -	2	\$0.00
055685	ASSEMBLY,LAMP,IFM CONTROL,4"X8"X10"	EACH	\$ 71.00	2	\$142.00
055706	DIAPHRAGM,RUBBER,1/8"X12"	EACH	\$ -	2	\$0.00
056748	DIAPHRAGM,SS,1/64"X1-5/32"	EACH	\$ -	2	\$0.00
056749	SEAT,VALVE,9/16"X7/8",BRASS/TEFLON	EACH	\$ -	2	\$0.00
056750	SEAT,VALVE,13/16"X1-1/16",BRASS/TEFLON	EACH	\$ -	2	\$0.00
056751	SEAT,VALVE,13/16"X1-1/16",TEFLON	EACH	\$ -	2	\$0.00
056827	SEAT,VALVE,5/16"X1-5/16",SS	EACH	\$ 108.92	2	\$217.84
056831	GASKET,PRECUT,FIBROUS PAPER,1/16"X1-13/32"X1-25/32	EACH	\$ 8.67	2	\$17.34
057730	BELLOWS,STEEL,2-1/2"	EACH	\$ -	2	\$0.00
057779	O-RING,NEOPRENE,12"X13"X1/2"	EACH	\$ 11.00	2	\$22.00
059107	WASHER,PANT LEG,1-1/2" BOLT,1/8" T,STEEL	EACH	\$ 9.00	2	\$18.00
061035	SEALANT,ADHESIVE,SILICONE RUBBER HI TEMP,RED, 5 GL	CAN	\$ 754.31	2	\$1,508.62
061141	CAPACITOR,ELECTROLYTIC,2200 MFD,25 V	EACH	\$ -	2	\$0.00
066505	CARTRIDGE,INK,RECORDER,RED	EACH	\$ 5.58	2	\$11.17
072672	COUPLING,PIPE,1",SW,A105,3000 LBS	EACH	\$ 1.69	2	\$3.37
077152	GASKET,PRECUT,PAPER,2-5/8"X9"	EACH	\$ 5.60	2	\$11.20
077185	GASKET,PRECUT,COOLER/OIL,RUBBER,1-9/16"X2-3/4"	EACH	\$ 8.24	2	\$16.49
104275	FILTER,AIR,SNUBBER DIFFUSION,SS,40 MICRON	EACH	\$ 945.00	2	\$1,890.00
109550	RELAY\GENERAL PUR.IC LOGIC.110 VDC.2NO...	EACH	\$ 27.66	2	\$55.31
110008	NUT\HEX:EXTRA HEAVY:1-1/2"-8:GR.3H:STEEL:PLAIN::	EACH	\$ 18.00	2	\$36.00
112093	BREAKER,16 A,277/480 VAC,2 POLE,MG TYPE	EACH	\$ 46.25	2	\$92.50
112814	TRANSDUCER,FREQUENCY,0-50000 HZ IN,4-20 MA OUT	EACH	\$ 550.00	2	\$1,100.00
114865	MODULE\ .WEIGH/RH & LH (ONE SIDED)	EACH	\$ 2,122.90	2	\$4,245.80
115393	FILTER,OIL,6"X44-1/2"L,STEEL/CLOTH	EACH	\$ 291.23	2	\$582.45
119016	NUT,LOCK,KNURLED,5/8"-24,SS	EACH	\$ 35.02	2	\$70.03
125983	COUPLING\PIPE::1":.SW:A105::6000 LBS	EACH	\$ 3.53	2	\$7.06
3006783	KIT\REBUILD.VALVE...DRAIN	EACH	\$ 109.31	2	\$218.62
3006789	OIL\COMPRESSOR.RECIP. OIL..20 L.	EACH	\$ 165.85	2	\$331.70
3008717	VALVE\CHANNEL.DISCHARGE/1ST STAGE..	EACH	\$ 382.56	2	\$765.11
003169	AMPLIFIER,SIGNAL,TRANSMITTER	EACH	\$ 654.23	3	\$1,962.70
006541	ELBOW,PIPE,90 DEG,1/2",SW,A105,3000 LBS	EACH	\$ 2.34	3	\$7.02
009507	RELAY,PNEUMATIC,PILOT	EACH	\$ 159.50	3	\$478.50
017727	ELBOW,PIPE,45 DEG,1",SW,F22,6000 LBS	EACH	\$ 16.41	3	\$49.23
025454	SEAL,SHAFT,OIL,1-1/8"X1-13/16"X5/16"	EACH	\$ 3.42	3	\$10.26
029140	GASKET\SPIRAL WOUND.2-1/2" PIPE...SS.1/8"X2-5/8"X3-1/16"..	EACH	\$ 12.83	3	\$38.48
039628	GASKET,PRECUT,COMPOSITION,1/8"X2"X2-1/2"	EACH	\$ -	3	\$0.00
040395	NUT,LOCK,HEX,2-1/4"-7,STEEL	EACH	\$ -	3	\$0.00
040506	SECTION,HANDHOLE,W/DOOR,8",DURITE	EACH	\$ 473.00	3	\$1,419.00
041559	CONTACT,ARCING,MOVEABLE	EACH	\$ -	3	\$0.00
044320	PROBE,VIBRATION,3/8",STEEL/PLASTIC	EACH	\$ 128.00	3	\$384.00
044330	PROBE,VIBRATION,TEFLON/PLASTIC	EACH	\$ -	3	\$0.00
044574	KIT,REPAIR,POSITIONER,4 PCS	EACH	\$ -	3	\$0.00
044578	PULLEY,DRIVE,BELT/COGGED,1 GROOVE,1-7/8" OD	EACH	\$ -	3	\$0.00
045887	PLUG,PIPE,3/8",SS	EACH	\$ -	3	\$0.00
046706	PEN,RECORDER,TYPE "A",RED	EACH	\$ -	3	\$0.00
046718	BODY,VALVE,PILOT	EACH	\$ -	3	\$0.00
047494	KIT,TUBING,ANALYZER	EACH	\$ 40.29	3	\$120.86
047495	ASSEMBLY,LAMP,115 VAC,HACH 5000 ANALIZER	EACH	\$ 15.43	3	\$46.29
047523	VALVE,BALL,2 WAY,3/4",BRONZE BODY,FNPT,600# WOG, SS	EACH	\$ 14.83	3	\$44.49
048004	RETAINER, .RING/VALVE,5/8",STEEL	EACH	\$ -	3	\$0.00

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INN	Description	UOM	Unit Cost	Qty	Write-off value
048006	DISC, VALVE, CHECK, 3/8", SS	EACH	\$ -	3	\$0.00
048694	TAPE, REFLECTIVE, PLASTIC, 2" W	ROLL	\$ 28.64	3	\$85.92
048740	COVER, DUST, TRANSMITTER, 2" X3-3/8", PLASTIC	EACH	\$ -	3	\$0.00
048741	KIT, MOUNTING, TRANSMITTER	EACH	\$ -	3	\$0.00
049019	PLATE, DIAPHRAGM, 1/8" X2-1/2", STEEL	EACH	\$ -	3	\$0.00
049536	BEARING\ SLEEVE, 3/8" BORE, 1/2" OD, 1/2" W, BRONZE	EACH	\$ -	3	\$0.00
049628	CUP, CYLINDER, PNEUMATIC, 4"	EACH	\$ -	3	\$0.00
050352	PIN, DOWEL, 1/4" X7/8", STEEL	EACH	\$ -	3	\$0.00
051561	PLUG, PIPE, VENT, 1/4" X5/16", SS	EACH	\$ -	3	\$0.00
051562	SCREW, VENT, 5/16", SS	EACH	\$ -	3	\$0.00
051564	BOLT, HEX HD, 1/2"-20X3-1/4", STEEL	EACH	\$ -	3	\$0.00
051578	BOLT, 7/16"-20X1-1/2", STEEL	EACH	\$ -	3	\$0.00
052083	GASKET, PRECUT, VICTAULIC STYLE 77, EPDM/GRADE E, 3"	EACH	\$ 16.10	3	\$48.30
052102	RING, RETAINING, 1/16" X5-5/8" X6-3/16"	EACH	\$ -	3	\$0.00
052120	BOLT, HEX SOC HD, 5/8"-11X1-1/4", STEEL	EACH	\$ -	3	\$0.00
053185	SWITCH, PRESS, 480 VAC, 15 A	EACH	\$ -	3	\$0.00
053187	GASKET, SPIRAL WOUND, 4-1/2" PIPE, STYLE R, 2500#, 304SS/FLE	EACH	\$ 6.93	3	\$20.79
053859	NUT, HEX, 2"-12, STEEL	EACH	\$ -	3	\$0.00
053876	SHAFT, PINION, 3/4" X14-1/2", STEEL	EACH	\$ 32.13	3	\$96.39
053878	GASKET, PRECUT, VICTAULIC GR E, 2-1/2"	EACH	\$ 19.45	3	\$58.36
053907	IDLER, ECCENTRIC, 1-5/16" X3-1/2", STEEL	EACH	\$ -	3	\$0.00
053916	SLEEVE, COUPLING, MOTOR	EACH	\$ -	3	\$0.00
053931	PIN, SPRING, 1/4" X1-1/4", STEEL	EACH	\$ -	3	\$0.00
053933	ROLLER, GUIDE, LANCE & FEED TUBE ASSY	EACH	\$ -	3	\$0.00
054643	FAN, MINIATURE, MX2B3 TYPE, 1-1/2" X4-11/16" X4-11/16"	EACH	\$ 14.56	3	\$43.67
055433	CELL, CONDUCTIVITY, TEMP COMPENSATED, 1-1/8" X6-1/4", S	EACH	\$ -	3	\$0.00
055544	GLASS, LEVEL GAUGE, REFLEX, SIZE 9	EACH	\$ 56.20	3	\$168.60
055686	HOSE, AIR, IFM PROBE, BRONZE/BRAIDED, 1/2" X54"	EACH	\$ 27.00	3	\$81.00
055694	SWITCH, PRESS, DIFF	EACH	\$ 32.67	3	\$98.00
055696	INSULATOR, CERAMIC, IFM PROBE	EACH	\$ 13.00	3	\$39.00
055700	INSULATOR, TEFLON, FLAME SCANNER, 1/2" X3/4"	EACH	\$ -	3	\$0.00
055790	ROD, WELDING, E309-16, 3/32", SS	POUND	\$ 9.65	3	\$28.96
056199	BELT, V, 1/2" X38"	EACH	\$ 5.32	3	\$15.96
056231	STEM, VALVE, PISTON/ELECTROMATIC, 1/2" X7-1/4", STEEL	EACH	\$ -	3	\$0.00
056232	SPRING, COIL, COMPRESSION, STEEL	EACH	\$ -	3	\$0.00
056241	DISC, VALVE, STEEL	EACH	\$ -	3	\$0.00
057700	VALVE, PETCOCK, 1/8", BRASS BODY, MNPT, BRASS PLUG	EACH	\$ 5.07	3	\$15.21
058078	GASKET, PRECUT, COPPER, 1/16" X6-1/2" X6-7/8"	EACH	\$ 157.50	3	\$472.50
105943	CLEANER, COIL, CONDENSER, LIQUID, 1 GL BOTTLE	BOTTLE	\$ 21.20	3	\$63.61
109228	RELAY, GENERAL PUR, DIP, 12 VDC, DPST/NO	EACH	\$ 6.28	3	\$18.84
114663	RECEIVER, PNEUMATIC	EACH	\$ -	3	\$0.00
120677	MODULE, POWER SUPPLY, FLAME SCANNER	EACH	\$ 281.00	3	\$843.00
122251	CLIP, GRATING, SADDLE TYPE, 1-3/16" CENTER TO CENTER BA	PACK	\$ 9.60	3	\$28.80
3002326	GASKET, PRECUT, GUIDED WAVE RADAR,	EACH	\$ 25.00	3	\$75.00
006537	ELBOW, PIPE, 90 DEG, 1", SW, A105, 3000 LBS	EACH	\$ 2.97	4	\$11.88
007329	ASSEMBLY, CABLE, SPEEDOMAX 2500, 24", 11/C	EACH	\$ -	4	\$0.00
007402	CLAMP\ FLANGE: HALF: 10": DURITE	EACH	\$ 23.90	4	\$95.60
007668	TRANSISTOR, NPN, 60 V, 500 MA	EACH	\$ -	4	\$0.00
018555	BEARING, BALL, SGL ROW 2 SEALS, 2.3622" BORE	EACH	\$ -	4	\$0.00
020720	GASKET, REF#20	EACH	\$ 11.33	4	\$45.33
021498	GASKET, PRECUT, VALVE/RELIEF PILOT, ELECTROMATIC 1538	EACH	\$ -	4	\$0.00
026217	BEARING, ROLLER, CAM	EACH	\$ -	4	\$0.00
032587	ASSEMBLY, PAWL, REAR	EACH	\$ 58.85	4	\$235.40
042531	SHEAVE, V BELT, BUSHED BORE, 1/2" BORE, 5" OD	EACH	\$ -	4	\$0.00

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INN	Description	UOM	Unit Cost	Qty	Write-off value
042675	WASHER,NITRITE,MALE,2-1/4" BOLT,5/8" T,3-5/8" OD, STEEL	EACH	\$ -	4	\$0.00
044551	KIT,CONVERSION,RECORDER COLOR PEN	EACH	\$ -	4	\$0.00
045155	PIPE,SEAMLESS,4",A106B,SCH 80	FOOT	\$ 14.26	4	\$57.02
046671	ORIFICE,AIR,REF#3	EACH	\$ -	4	\$0.00
046707	PEN,RECORDER,TYPE "B",BLUE	EACH	\$ -	4	\$0.00
047390	GAUGE,PRESS,0-60 PSI,1/4" MNPT LOWER,2-1/2" FACE	EACH	\$ 13.28	4	\$53.11
047448	KIT,SEAL,ROD/2",VITON	EACH	\$ 143.92	4	\$575.70
048687	CIRCUIT BD,POWER SUPPLY	EACH	\$ 2,305.72	4	\$9,222.86
049537	PIN,DOWEL	EACH	\$ -	4	\$0.00
049559	GLASS,COVER	EACH	\$ -	4	\$0.00
053851	NOZZLE,SOOTBLOWER,IR AIR TYPE,1-3/4",STEEL	EACH	\$ 282.77	4	\$1,131.09
053857	CAM,DRIVE,SOOTBLOWER/SCREW TUBE,1"X4-1/4"X6-1/4"	EACH	\$ 92.96	4	\$371.82
053920	RING,SPACER,1/4"X1-3/4"X2",STEEL	EACH	\$ -	4	\$0.00
055464	CIRCUIT BD,DISPLAY,KEYBOARD/LCD	EACH	\$ 232.40	4	\$929.60
055470	KIT,FILTER,DIFFUSION PROBE	EACH	\$ 118.00	4	\$472.00
055799	ROD,WELDING,CRONAWELD 333,3/32"	POUND	\$ 86.78	4	\$347.12
056252	GASKET,PRE CUT,VALVE,PAPER,1-5/16"X2"	EACH	\$ -	4	\$0.00
057038	ROD,IGNITOR,FLAME	EACH	\$ 415.00	4	\$1,660.00
058407	PIN,ADJUSTING,5/8"X3-7/8",SS	EACH	\$ -	4	\$0.00
110694	COUPLING,PIPE,1/2",SW,F22,3000 LBS	EACH	\$ 7.57	4	\$30.28
111425	FILTER,AIR,DILUTION PROBE CARTRIDGE	EACH	\$ 7.05	4	\$28.20
122062	PROBE,CONDUCTIVITY,LEVEL SENSING,5/8"X6	EACH	\$ 708.08	4	\$2,832.32
021465	RING,SEAL,VALVE/SAFETY RELIEF	EACH	\$ -	5	\$0.00
030522	LEVER,GATE,SLUICE,1"X1-3/4"X5-1/4",STEEL	EACH	\$ 76.22	5	\$381.11
042674	WASHER,NITRITE,FEMALE,2-1/4" BOLT,11/16" T, 3-5/8" OD,S	EACH	\$ 20.43	5	\$102.16
042683	WASHER,NITRITE,MALE,1-7/8" BOLT,1/2" T,3-1/4" OD	EACH	\$ -	5	\$0.00
043242	NOZZLE,PUFFER,BREAKER,1-1/4"X1-1/2",FIBERGLASS	EACH	\$ 33.00	5	\$165.00
044214	SWITCH,ROTARY,8P	EACH	\$ -	5	\$0.00
044585	CLIP	PAIR	\$ -	5	\$0.00
047376	GLASS,SIGHT,CLEAR W/WHITE BACK	EACH	\$ 43.67	5	\$218.35
048023	SET,PACKING,PUMP SHAFT	EACH	\$ -	5	\$0.00
048728	REGULATOR,PRESSURE,GAS,0-200 PSI	EACH	\$ 76.50	5	\$382.50
050333	CAP,SEAL,REAGENT BOTTLE,3/4"X1-1/2"X1-23/32",PLAST	EACH	\$ -	5	\$0.00
050361	SEAL,SHAFT,OIL,11/16"X1-3/8"X1/4"	EACH	\$ -	5	\$0.00
052080	CUP,GREASE,1/4"	EACH	\$ -	5	\$0.00
052100	HOUSING,BEARING,BALL THRUST	EACH	\$ -	5	\$0.00
052106	BOLT,HEX SOC HD,3/8"-24X1",STEEL	EACH	\$ 6.94	5	\$34.70
052114	WASHER,THRUST,4-1/8" ID,5-1/2" OD,5/16" T,STEEL	EACH	\$ -	5	\$0.00
052824	GASKET,PRE CUT,TEFLON,5/32"X5-3/16"X5-7/16"	EACH	\$ -	5	\$0.00
053923	BOLT,HEX SOC HD,7/16"-13X1-3/4",STEEL	EACH	\$ -	5	\$0.00
053925	GASKET,PRE CUT,COPPER,1/16"X1-15/16"X2-5/16"	EACH	\$ 4.88	5	\$24.40
054763	BUSHING,COUPLING,REF#13	EACH	\$ 39.00	5	\$195.00
055308	SET,GASKET,GAUGE GLASS MP3000	BOX	\$ 325.49	5	\$1,627.47
057453	GASKET PRE CUT:ASH LINE 5"::1-5/8"X6"X7-1/8"::::	EACH	\$ 43.39	5	\$216.97
058150	GEAR,SPUR,CHART DRIVE,45 TEETH,3/16" BORE,5/16" OD	EACH	\$ -	5	\$0.00
058408	PIN,ADJUSTING,UPPER RING,5/8"X3-1/4",SS	EACH	\$ -	5	\$0.00
111358	TUBE,CAPILLARY,ANALYZER/NOX 42,8 MIL,GLASS	EACH	\$ 63.83	5	\$319.15
012754	GASKET,SPIRAL WOUND,3/4" PIPE,SS	EACH	\$ 2.61	6	\$15.68
014001	STUD,MILLED,1"-8X6",STEEL,CROSSOVER PIPING	EACH	\$ -	6	\$0.00
027766	NEEDLE,VALVE,PILOT,3/32",STEEL BODY	EACH	\$ -	6	\$0.00
031203	NUT,LOCK,I R NOZZLE,2",STEEL/PLAIN	EACH	\$ 13.23	6	\$79.36
042248	RELAY,TIMING,PNEUMATIC,125 VDC	EACH	\$ -	6	\$0.00
042388	KIT,CONTACT,F6	EACH	\$ -	6	\$0.00
043225	FINGER,BREAKER,FEMALE	EACH	\$ -	6	\$0.00

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INN	Description	UOM	Unit Cost	Qty	Write-off value
043241	CLUSTER,BREAKER,SGL ROUND FEMALE,2000 A	EACH	\$ -	6	\$0.00
043882	BULB,SQUEEZE,SPECIFIC GR HYDROMETER,2"	EACH	\$ -	6	\$0.00
049129	CAPACITOR,ELECTROLYTIC,4 MFD,150 V	EACH	\$ -	6	\$0.00
050320	STRAINER,FILTER,BARBED HOSE TO FOOT,5/8"X3/4"	EACH	\$ -	6	\$0.00
052098	BALL,NUTATING,1/4",STEEL	EACH	\$ -	6	\$0.00
052103	RING,RETAINING,3/64"X3-5/8"X4"	EACH	\$ -	6	\$0.00
053854	BAR,GUIDE,3-1/4"X11",STEEL	EACH	\$ 93.27	6	\$559.62
053922	BAR,TRIP,1/64"X1-1/4"X1-1/2",STEEL	EACH	\$ -	6	\$0.00
057045	LENS,FLAME SCANNR,1",CLEAR,GLASS	EACH	\$ 37.93	6	\$227.58
3008716	VALVE\CHANNEL.SUCTION/1ST STAGE..	EACH	\$ 443.71	6	\$2,662.25
009486	SHAFT,VALVE,POSITIONER,1/2"X2-1/2",STEEL	EACH	\$ 18.86	7	\$132.00
027816	KIT	EACH	\$ -	7	\$0.00
028462	CIRCUIT BD,LOGIC	EACH	\$ 775.00	7	\$5,425.00
028487	BEARING,BALL,SGL ROW OPEN,.7874" BORE	EACH	\$ 36.56	7	\$255.92
043014	ARM,SWITCH,ROLLER TYPE LIMIT,1-1/2"X2"	EACH	\$ 40.12	7	\$280.84
046722	SPRING,COIL	EACH	\$ 18.00	7	\$126.00
047534	VALVE,GATE,RISING STEM,1/2",CLASS 125,BRONZE BODY,FN	EACH	\$ 26.26	7	\$183.82
050354	SHIELD,DUST,TRANSCIEVER,1-1/2"X6-5/8",NEOPRENE	EACH	\$ -	7	\$0.00
053862	BOLT,HEX HD,1/2"-13X1-3/4",STEEL	EACH	\$ -	7	\$0.00
053894	PIN,TAPER,GROOVED,1/4"X1-1/4",STEEL,PLAIN	EACH	\$ 1.80	7	\$12.62
053914	SHIELD,COUPLING,IR	EACH	\$ 14.41	7	\$100.88
053926	RING,RETAINING,INT SNAP,1/16"X2"X2-1/4"	EACH	\$ -	7	\$0.00
055970	GASKET,PRECUT,ASH LINE,STL REINFORCED NUVALEX,5"	EACH	\$ 24.85	7	\$173.93
105632	GASKET,PRECUT,STEEL/RUBBER,1/2"X6-3/16"X8"	EACH	\$ 30.40	7	\$212.80
122617	BLADE,WHIZZER,CW,3/8",A-36 CERAMIC LINED	EACH	\$ 132.50	7	\$927.50
003208	PIPE,SEAMLESS,2",P22,SCH 160	FOOT	\$ 22.24	8	\$177.92
011779	RELAY,GENERAL PUR,24 VDC,DPDT	EACH	\$ -	8	\$0.00
040955	ACTUATOR,ELECTRIC,SOLENOID/TRIP & CLOSE,125 VDC	EACH	\$ -	8	\$0.00
042686	WASHER,NITRITE,FEMALE,1-3/8" BOLT,3/8" T, 2-3/8" OD,S	EACH	\$ 13.33	8	\$106.67
043019	COUNTER,MECHANICAL,0-99999	EACH	\$ 40.00	8	\$320.00
046689	PIN,DOWEL,1/2"X2",STEEL	EACH	\$ -	8	\$0.00
050324	CONNECTOR,HOSE,1/4",TEFLON	EACH	\$ -	8	\$0.00
053927	RING,SEAL,1/64"X3-1/2"X4-1/8",SS	EACH	\$ -	8	\$0.00
101091	PIPE,SEAMLESS,2",A106B,SCH 80	FOOT	\$ 5.75	8	\$46.01
103400	REFRACTORY\DRY.HI STRENGTH MOLDIT-D.CASTABLE.	BAG	\$ 22.92	8	\$183.36
108021	KIT,REPAIR,PROBE/UNIVERSAL	EACH	\$ 218.00	8	\$1,744.00
003184	PIPE,SEAMLESS,2-1/2",A106B,SCH 160	FOOT	\$ 9.32	9	\$83.88
006534	ELBOW,PIPE,90 DEG,3/4",SW,A105,3000 LBS	EACH	\$ 3.33	9	\$30.01
028148	YOKE,VALVE,POPPET	EACH	\$ 0.95	9	\$8.54
030914	NOZZLE,CONTROLLER,PNEUMATIC,.021"X.875",STEEL	EACH	\$ 27.00	9	\$243.00
031218	PIN, ,IR DRIVE,11/16"X7/16",STEEL	EACH	\$ 5.85	9	\$52.62
041210	BRACKET,INSULATING,1/4"X1-3/8"X3-1/2"	EACH	\$ -	9	\$0.00
042573	COIL,	EACH	\$ -	9	\$0.00
042673	WASHER,NITRITE,2-1/4" BOLT,3/8" T,3-5/8" OD,STEEL	EACH	\$ 15.51	9	\$139.60
050322	ADAPTOR,HOSE,1/8" BARBED TO 1/8" MNPT,TEFLON	EACH	\$ -	9	\$0.00
053903	WASHER,RETAINER,VALVE	EACH	\$ -	9	\$0.00
053928	WASHER,LOCK,INTERNAL TOOTH,1/2" BOLT,1/16" T,7/8"	EACH	\$ -	9	\$0.00
054470	SWITCH,SNAP ACTION,INTEGRAL LEVER,28 VDC,5 A,SPDT	EACH	\$ 13.00	9	\$117.00
055813	ROD,FILLER,ER70S-3 CERTIFIED FLAGGED,3/32"	POUND	\$ 2.63	9	\$23.67
061801	NUT,LOCK,BEARING,N-13,STEEL	EACH	\$ 3.59	9	\$32.34
112948	THERMOCOUP,TYPE J,60" L,SS 304	EACH	\$ 38.68	9	\$348.12
115737	TUBING,SS,TYPE 316 SEAMLESS,1/4"X.049"	FOOT	\$ 1.69	9	\$15.21
120696	ROD,FILLER,ER70S2 CERTIFIED FLAGGED,1/8"X36"	POUND	\$ 1.99	9	\$17.91
042678	WASHER,NITRITE,MALE,1-5/8" BOLT,1/2" T,2-3/4" OD	EACH	\$ -	10	\$0.00

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INN	Description	UOM	Unit Cost	Qty	Write-off value
052056	ROLLER,GUIDE,3-1/2"D	EACH	\$ -	10	\$0.00
055791	ROD,WELDING,E309-16,1/8",SS	POUND	\$ 7.85	10	\$78.50
057694	LAMP,INCANDESCENT,REFLECTOR,28 V,40 W, D.C. BAY	EACH	\$ -	10	\$0.00
058014	SPRING\COIL::STEEL:3/8"X5/8"X1-1/4":8 COILS::3RD STAGE	EACH	\$ -	10	\$0.00
100461	CHART,ROLL,THERMAL,NO SCALE	EACH	\$ 30.49	10	\$304.89
028161	SPRING,COIL,VALVE STEM	EACH	\$ 2.99	11	\$32.93
031222	PIN,TAPER,GROOVED,3/16"X3/4",STEEL,PLAIN	EACH	\$ 16.00	11	\$176.00
042377	BRACKET, L SHAPE,1/4"X1-1/2"X4-5/8"	EACH	\$ -	11	\$0.00
044587	TUBING	EACH	\$ -	11	\$0.00
046728	RING,RETAINING	EACH	\$ -	11	\$0.00
048739	FILTER,AIR,SCREEN TYPE,1/4"X13/16",STEEL/RUBBER	EACH	\$ 8.00	11	\$88.00
052094	PIN,SPRING,3/4"X2",STEEL	EACH	\$ -	11	\$0.00
053865	WASHER,THRUST,5/8" ID,1" OD,1/16" T,BRONZE	EACH	\$ -	11	\$0.00
042676	WASHER,NITRITE,MALE,1-3/4" BOLT,1/2" T,2-7/8" OD	EACH	\$ -	12	\$0.00
053890	STEM,VALVE,POPPET SERIES 600	EACH	\$ -	12	\$0.00
053930	PIN,SPRING,COILED,1/4"X1",SS 18-8	EACH	\$ -	12	\$0.00
102817	RING,RETAINING,3/8"X4-1/8"X5"	EACH	\$ 25.59	12	\$307.06
015173	SEAL,SHAFT,OIL,2-1/8"X2-7/8"X7/16"	EACH	\$ 2.93	13	\$38.15
031211	RING,RETAINING,EXT SNAP,1/32"X3-3/4"X4-3/16"	EACH	\$ -	13	\$0.00
042691	WASHER,NITRITE,FEMALE,1-5/8" BOLT,7/16" T, 2-3/4" OD,S	EACH	\$ 22.00	13	\$286.00
050323	ADAPTOR,HOSE,1/16" BARBED TO 1/8" MNPT,TEFLON	EACH	\$ -	13	\$0.00
052735	NOZZLE,WATER JET,9/16",SS	EACH	\$ 16.08	13	\$209.09
057960	GASKET,PRECUT,SEAT/1ST STAGE,COPPER,1/8"X7"X7-1/4"..CIF	EACH	\$ 9.76	13	\$126.84
058001	SPRING\COIL::STEEL:3/4"X1"X1-1/2":4 COILS::1ST&2ND STAGE	EACH	\$ -	13	\$0.00
126000	FUSE\ONE-TIME:FAST ACTING:1/16 A:250 V:.3"L:AXIAL LEAD	EACH	\$ 1.86	13	\$24.18
040846	BOLT,HEX SOC HD,3/4"-10X3",GR.B16,STEEL	EACH	\$ -	14	\$0.00
041950	PIN,DOWEL,1/4"X1-1/2",STEEL	EACH	\$ 40.00	14	\$560.00
043325	CLUSTER,BREAKER,SGL ROUND FEMALE,1200 A	EACH	\$ -	14	\$0.00
044553	ARM,PEN	EACH	\$ 0.28	14	\$3.99
045162	PIPE,SEAMLESS,3/4",A106B,SCH 80	FOOT	\$ 3.04	14	\$42.56
050355	FILTER,AIR,7/16"X7/8",ALU	EACH	\$ -	14	\$0.00
055755	ROD\WELDING:E7018-B2L.3/32"	POUND	\$ 5.41	14	\$75.67
061805	PACKING,BULK,3/16",GRAPHITE/BRAIDED,SQUARE	FOOT	\$ 11.44	14	\$160.19
106024	PIPE,SEAMLESS,2",P22,SCH 80	FOOT	\$ 12.57	14	\$175.98
107744	HANGER,PIPE,ADJUSTABLE CLEVIS,2",STEEL	EACH	\$ 1.56	14	\$21.84
001265	TRANSISTOR,NPN,90 V,700 MA	EACH	\$ -	15	\$0.00
052065	SPROCKET,IDLER,1" BORE,2-1/4" OD,13 TOOTH	EACH	\$ -	15	\$0.00
102121	TUBING,SS,TYPE 316 SEAMLESS,1/2"X.035"	FOOT	\$ 2.35	15	\$35.19
3005393	BLADE\CABLE HOLDER...RUBBER	EACH	\$ 36.78	15	\$551.70
115693	WASHER,NITRITE,FEMALE,2" BOLT,9/16"T,3-1/4"OD, STEEL	EACH	\$ -	16	\$0.00
005269	PIPE,SEAMLESS,3",A106B,SCH 80	FOOT	\$ 10.61	17	\$180.37
052115	NUT,HEX,9/16"-18,STEEL	EACH	\$ -	17	\$0.00
052119	SCREW,HEX SOC HD,SET,3/16"-20X3/8",STEEL	EACH	\$ -	17	\$0.00
053896	RING,RETAINING,1/16"X5-5/8"X6-1/8"	EACH	\$ -	17	\$0.00
100591	WASHER,PANT LEG,3/4" BOLT,1/16" T,1-1/16" LEG LENGTH,S	EACH	\$ 0.70	17	\$11.97
053913	PIN,TRIGGER	EACH	\$ -	18	\$0.00
003246	PIPE,SEAMLESS,2-1/2",A106B,SCH 40	FOOT	\$ 5.56	19	\$105.63
031474	ASSEMBLY,PAWL	EACH	\$ -	19	\$0.00
032381	GASKET,PRECUT,GUN/OIL,COPPER,.098"X3/4"X1-1/16"	EACH	\$ 2.70	19	\$51.28
042378	INSULATOR,FIBERGLASS	EACH	\$ -	19	\$0.00
044591	PEN,RECORDER,DISPOSABLE,GREEN	EACH	\$ 10.86	19	\$206.39
045080	PIPE,SEAMLESS,6",A106B,SCH 40	FOOT	\$ 21.54	19	\$409.26
053935	GASKET,PRECUT,TEFLON,1/16"X1-1/4"X2"	EACH	\$ -	20	\$0.00
108450	PIN\SHEAR::1"X2-3/4":SS 304	EACH	\$ 23.31	20	\$466.29

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INN	Description	UOM	Unit Cost	Qty	Write-off value
117190	PIPE,PLASTIC,2",PVC,SCH 80,PLAIN END	FOOT	\$ 1.34	20	\$26.80
043179	BUSHING,SLEEVE,1/2" W/FLANGE,COPPER	EACH	\$ -	21	\$0.00
052757	BOLT,FLAT HD,ELEVATOR,3/8"-16X2",SS 304/18-8	EACH	\$ 6.60	21	\$138.60
058761	GASKET,PRE CUT,GRAFOIL,1/32"X9/16"X11/16"	EACH	\$ 2.46	21	\$51.66
101492	ROD,WELDING,E308-16,3/32",SS	POUND	\$ 9.85	21	\$206.75
122435	FILTER,OIL,BAG,10 MICRON	EACH	\$ 2.45	21	\$51.55
003265	PIPE,SEAMLESS,1/2",P22,SCH 80	FOOT	\$ 8.32	22	\$183.04
051774	RESISTOR,WIREWOUND,250 OHM,3W,5% TOL	EACH	\$ 0.34	22	\$7.59
053888	NUT,JAM,HEX,1/2"-16,STEEL	EACH	\$ -	22	\$0.00
107535	PIPE,SEAMLESS,1",P22,SCH 80	FOOT	\$ 12.80	22	\$281.54
072837	TUBING,SS,TYPE 316 SEAMLESS,3/8"X.049"	FOOT	\$ 2.92	24	\$70.07
109039	RELAY,GENERAL PUR,SOLID STATE,24 VDC,1 POLE	EACH	\$ 10.50	24	\$252.00
017995	WASHER,NITRITE,MALE,1-3/8" BOLT,5/16" T,2-1/8" OD	EACH	\$ 11.29	25	\$282.19
009910	GASKET\BULK:RUBBER(RED):1/4"X36":170 DEG F	LINEAR F	\$ 13.94	27	\$376.38
053919	RING,RETAINING,1/8"X1-3/4"X2"	EACH	\$ -	27	\$0.00
053895	RING,RETAINING,3/8"X2-1/2"X3-1/2"	EACH	\$ -	28	\$0.00
055780	ROD,WELDING,E308-16,1/8",SS	POUND	\$ 7.68	29	\$222.72
109040	RELAY,GENERAL PUR,SOLID STATE,24 VDC,1 POLE	EACH	\$ 19.00	37	\$703.00
052112	PIN,SPRING,1/4"X3/4",STEEL/PLAIN	EACH	\$ -	38	\$0.00
042389	BOLT,HEX HD,1/2"-13X2-1/2",STEEL	EACH	\$ -	39	\$0.00
055746	ROD,WELDING,E7018-MR,3/32"	POUND	\$ 2.60	39	\$101.40
109144	TUBING,SS,TYPE 304 SEAMLESS,3/8"X.049"	FOOT	\$ 2.03	39	\$79.17
042672	WASHER,NITRITE,MALE,2" BOLT,1/2" T,3-1/4" OD,STEEL	EACH	\$ 16.50	42	\$693.00
055792	ROD,WELDING,CRONAWEAR EAGLE 7330,3/8"	POUND	\$ 39.51	42	\$1,659.50
120549	TILE,CERAMIC,WELDABLE,1/2"X4"X6",WHITE	EACH	\$ 2.60	44	\$114.24
042677	WASHER,NITRITE,FEMALE,1-7/8" BOLT,1/2" T,3-1/8" OD	EACH	\$ -	53	\$0.00
054198	O-RING,NITRILE/BUNA,DASH #454,12-1/2"X13"X1/4"	EACH	\$ -	53	\$0.00
042444	CONTACT, ,FEMALE/SGL GANG	EACH	\$ -	58	\$0.00
045105	PIPE,WELDED,1",MI/BLACK IRON,SCH 40	FOOT	\$ 1.21	62	\$75.02
046704	STUD,COVER	EACH	\$ -	69	\$0.00
055743	ROD,WELDING,E7018-MR,1/8"	POUND	\$ 2.80	69	\$193.52
051631	PLUG,TUBE,CONDENSER,7/8"X2",BRASS	EACH	\$ -	72	\$0.00
126059	KIT\SAMPLE:FLUID ANALYSIS	EACH	\$ 50.00	81	\$4,050.00
029082	O-RING,NITRILE/BUNA,DASH #448,9-1/2"X10"X1/4"	EACH	\$ -	84	\$0.00
048990	O-RING,NITRILE/BUNA,DASH #366,7-1/4"X7-5/8"X3/16"	EACH	\$ 0.67	89	\$59.63
055762	ROD,GOUGING,1/4",CARBON	PIECE	\$ 0.15	99	\$14.85
107832	ROPE,WIRE,FIBER CORE,6X19,5/16",IPS,SWAGED-ON CABLE	FOOT	\$ 1.72	234	\$402.53
052121	WASHER,LOCK,INTERNAL TOOTH,1/2" BOLT,1/16" T,5/8"	EACH	\$ -	259	\$0.00
055684	WIRE,IGNITION,HIGH VOLTAGE,1/C,GREY	FOOT	\$ -	403	\$0.00
000322	HOSE,OIL,FLANGED,SS,3"X10F,150B16	EACH	\$ 515.29	1	\$515.29
000677	PIPE,ASH,8"X36",DURITE	EACH	\$ 420.00	3	\$1,260.00
000765	VALVE,GATE,RISING STEM,8",CLASS 150,STEEL BODY WCBFL	EACH	\$ 935.99	1	\$935.99
001216	SEAL,SHAFT,OIL,1"X1-3/8"X3/16"	EACH	\$ -	1	\$0.00
001746	NIPPLE,PIPE,CLOSE,3",GALV STEEL,SCH 40	EACH	\$ 6.73	5	\$33.67
001945	RELAY,GENERAL PUR.125 VDC,2 POLE/SPDT	EACH	\$ 101.43	3	\$304.29
001962	RELAY\GENERAL PUR..125 VDC..11 PIN..	EACH	\$ -	4	\$0.00
002178	OPERATOR,SWITCH,PUSHBUTTON	EACH	\$ 12.72	8	\$101.78
002186	CONTACT,SWITCH,120 VAC,1NO 1NC	EACH	\$ 14.31	8	\$114.46
002441	CLAMP,PIPE,LEAK REPAIR,6" PIPE X 18",SS/RUBBER	EACH	\$ 239.41	2	\$478.82
002589	INSULATOR\CERAMIC.PRECIPITATOR SUPPORT.9-3/4"X12-1/2"	EACH	\$ 1,735.00	1	\$1,735.00
002730	ORIFICE,AIR,SS 303,60-72 CM	EACH	\$ 51.00	2	\$102.00
003189	PIPE,SEAMLESS,1-1/2",P22,SCH 160	FOOT	\$ 16.17	44	\$711.48
003259	PIPE,SEAMLESS,1/2",A106B,SCH 40	FOOT	\$ 2.81	63	\$177.08
003267	PIPE,SEAMLESS,1/4",A106B,SCH 40	FOOT	\$ 2.80	0.5	\$1.40

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INN	Description	UOM	Unit Cost	Qty	Write-off value
003278	PIPE,SEAMLESS,2",A106B,SCH 40	FOOT	\$ 3.31	29	\$96.11
003282	PIPE,SEAMLESS,1-1/2",A106B,SCH 40	FOOT	\$ 7.55	42	\$317.16
003436	BEARING,BALL,SGL ROW 2 SHIELDS,2.7559" BORE	EACH	\$ 138.62	1	\$138.62
003456	BEARING,BALL,SGL ROW OPEN,60MM BORE,130MM OD,31MM	EACH	\$ 51.51	1	\$51.51
003459	BEARING,BALL,SGL ROW OPEN,2.5591" BORE	EACH	\$ 51.07	1	\$51.07
003595	ELBOW,PIPE,45 DEG,6",SLIP FIT,CPVC,SCH 80	EACH	\$ 77.55	2	\$155.10
004628	SWITCH,VIBRATION,120 VDC,2 SPDT	EACH	\$ 371.79	1	\$371.79
004781	FILTER,AIR,3/8"X1-3/8"X2-1/2",FIBER/PAPER	EACH		19	\$0.00
005387	VALVE,SOLENOID,3 WAY NO EP,120 VAC,1/2" FNPT, BRASS	EACH	\$ 340.37	1	\$340.37
005413	VALVE,SOLENOID,4 WAY EP,120 VAC,1/2" FNPT,BRASS,10-150	EACH	\$ 688.00	1	\$688.00
005465	TIMER,ELECTRIC,0-30 MIN,120 VAC,10 A	EACH	\$ 39.00	1	\$39.00
005605	FUSE,ONE-TIME,VERY FAST ACTING,300 A,700 V	EACH	\$ 103.97	2	\$207.94
005738	RELAY,GENERAL PUR,120 VAC,8 POLE	EACH	\$ 33.42	4	\$133.67
006053	BEARING,BALL,DBL ROW 2 SHIELDS,.9842" BORE	EACH	\$ 50.15	1	\$50.15
006054	RETAINER,SEAL	EACH	\$ 60.60	1	\$60.60
006056	BELT,V,COG TYPE,1/2"X37"	EACH	\$ 4.71	4	\$18.85
006057	DIAPHRAGM/VITON.PRECIP. VIBRATOR SEAL.1.5"ID X 3.625"O	EACH	\$ 57.40	6	\$344.40
006059	SPRING,FLAT,SUSPENSION	EACH	\$ 24.78	2	\$49.57
006060	BRACKET,BAR,3/8"X1-1/2"X11-1/6"	EACH	\$ 48.85	2	\$97.71
006062	RING,SPACER,1/2"X1"X1-15/16",STEEL	EACH	\$ 1.24	19	\$23.63
006070	SHAFT,WHEEL,COUNTWEIGHT,.985"X3-3/4",STEEL	EACH	\$ 56.30	2	\$112.60
006071	BAR,STOP	EACH	\$ 66.67	7	\$466.67
006081	CUP,CYLINDER.PNEUMATIC PISTON.2-1/2".STEEL/RUBBER	EACH	\$ 10.60	4	\$42.40
006082	CAP,END,CYLINDER	EACH	\$ 98.40	2	\$196.80
006096	GASKET,PRE CUT,RUBBER,1/2"X7-7/8"X12"	EACH	\$ -	10	\$0.00
006219	PLUG,PIPE,RAISED SQ HD,3",MI/BLACK IRON,SCH 40	EACH	\$ 6.95	3	\$20.85
006480	UNION,PIPE,1/2",SW,A105,3000 LBS	EACH	\$ 5.03	8	\$40.24
006506	ELBOW,PIPE,45 DEG,1",SW,A105,3000 LBS	EACH	\$ 5.16	6	\$30.96
006521	UNION,PIPE,2",FNPT,A105,3000 LBS	EACH	\$ 17.49	3	\$52.46
006664	BLOCK,CONTACT..120 V.10 A..1NO 1NC CONTACT.5/8"X1-1/4"X	EACH	\$ 11.88	4	\$47.53
006747	NUT,LOCK,HEX,7-1/4"-6,STEEL	EACH	\$ 853.00	1	\$853.00
006971	TRANSISTOR.PNP,65 V,1 A	EACH	\$ -	16	\$0.00
007213	SPRING,COIL,PLUNGER,STEEL	EACH	\$ -	14	\$0.00
007323	PROBE,PH,SCREW CAP,0-14 PH,TC MERIDAN HONEYWELL AN	EACH	\$ 295.49	1	\$295.49
007413	ANGLE,GUIDE,RIGHT HAND	EACH	\$ 427.00	1	\$427.00
007414	ANGLE,GUIDE,LEFT HAND	EACH	\$ 427.00	2	\$854.00
007673	TRANSISTOR,NPN,60 V,15 A	EACH	\$ -	6	\$0.00
007699	TRANSISTOR,NPN,40 V,800 MA	EACH	\$ -	1	\$0.00
007857	TEE,PIPE,1/2",SW,A105,3000 LBS	EACH	\$ 2.88	2	\$5.75
008106	CAP,PIPE,1/2",SW,A105,3000 LBS	EACH	\$ 1.56	3	\$4.69
008108	CAP,PIPE,3/4",SW,A105,3000 LBS	EACH	\$ 1.85	2	\$3.69
008125	COUPLING,PIPE,1/4",SW,A105,3000 LBS	EACH	\$ 2.86	7	\$20.02
008132	COUPLING,PIPE,3/4",FNPT,A105,3000 LBS	EACH	\$ 1.59	5	\$7.95
008257	NUT,SHAFT,K#CA7	EACH	\$ 109.00	1	\$109.00
008310	RING,OIL,REF#31B	EACH	\$ 35.50	2	\$71.00
008322	SHOE,KTB	EACH	\$ 106.00	12	\$1,272.00
008548	ROLLER,GUIDE,GATE	EACH	\$ 107.00	3	\$321.00
009375	METER,HOUR,99999.9 HR	EACH	\$ 175.89	4	\$703.57
009482	GASKET,PRE CUT,1/32"X7/16"	EACH	\$ 168.00	1	\$168.00
009498	GASKET	EACH	\$ 110.00	1	\$110.00
009501	KIT,REPAIR,RELAY/PNEUMATIC,10 PCS	KIT	\$ 58.00	1	\$58.00
009770	ASSEMBLY,CARTRIDGE,SUCTION,1/2" NPT,REF#221B	EACH	\$ 43.24	6	\$259.43
009904	GASKET,NEOPRENE,NON-REINFORCED,1/4"X36",DURO 50	LINEAR F	\$ 15.31	15	\$229.65
009960	COUPLING,PIPE,2",SW,A105,6000 LBS	EACH	\$ 11.17	2	\$22.35

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010087	CLAMP,FLANGE,10"	EACH		2	\$0.00
011015	MOTOR,AC,230/460 V,1/3 HP,1140 RPM,3 PH,56,TEFC	EACH	\$ 302.03	1	\$302.03
011351	DIAPHRAGM,RUBBER,45" TO 50"	EACH	\$ 95.41	1	\$95.41
011394	DIAPHRAGM,NITRILE,#34/#40	EACH	\$ 41.91	1	\$41.91
011395	DIAPHRAGM,NITRILE,#34/#40	EACH	\$ 15.68	4	\$62.73
011566	SLEEVE,CYLINDER,PUMP	EACH	\$ 131.58	1	\$131.58
011570	SHAFT,PUMP	EACH	\$ 133.00	2	\$266.01
011602	BEARING,BALL,DBL ROW 1 SHIELD,.9842" BORE	EACH	\$ 17.06	3	\$51.18
012051	GAUGE,TEMP,200/1000 DEG F,1/2" MNPT EVERY ANGLE,5"	EACH	\$ 73.75	2	\$147.50
012201	GASKET/PRE CUT.COVER/SBE.....363G..	EACH	\$ 98.00	1	\$98.00
012467	VALVE,CHECK,SWING,1/2",CLASS 125,BRONZE BODY, FNPT,12	EACH	\$ 32.95	3	\$98.85
012696	FUSE/TIME DELAY.6 AMP.600 VAC.CLASS RK1	EACH	\$ 8.01	3	\$24.03
012719	SET,PACKING,TEFLON,1/4"X1/2"X1"	EACH	\$ 19.00	5	\$95.00
012760	PIN,DOWEL,GROOVE,1/8"X15/16",STEEL	EACH	\$ 5.00	1	\$5.00
012816	KIT,REPAIR,RELAY/PNEUMATIC,11 PCS	KIT	\$ 18.08	1	\$18.08
012817	KIT,REPAIR,10 PCS,TRANSMITTER,POSITIONER	KIT	\$ 10.00	2	\$20.00
013143	OVERLOAD,THERMAL,FH82	EACH	\$ 5.16	4	\$20.65
013939	BOLT,HEX SOC HD,1"-8X3",STEEL	EACH	\$ -	13	\$0.00
014480	ASSEMBLY,CARTRIDGE,DISCHARGE	EACH	\$ -	5	\$0.00
014531	WASHER\LOCK.BRG RET NUT.W-08...STEEL...	EACH	\$ -	15	\$0.00
014534	SEAL,SHAFT,OIL,5/8"X1-9/16"X1/4"	EACH	\$ 2.67	3	\$8.01
014580	SHIM\STEEL...010"X2-7/16"X3".257.	EACH	\$ 15.50	4	\$62.00
015211	PLUNGER/CONTROL..212A.C-102-1153-000	EACH	\$ 12.80	4	\$51.20
015214	PLATE,FLOW,CONTOUR/PROCESS SIDE,5/32"X4-5/8",STEEL	EACH	\$ -	4	\$0.00
015919	CONTACT,SWITCH,OIL TIGHT,150 V,2 POLE/1NO 1NC,MINI	EACH	\$ 4.69	2	\$9.38
015945	RELAY,GENERAL PUR,120 VAC,4NO	EACH	\$ 106.50	4	\$426.02
015995	WASHER,PANT LEG,1" BOLT,1/8" T,STEEL	EACH	\$ 0.93	4	\$3.73
017742	COUPLING,PIPE,3/4",SW,F22,6000 LBS	EACH	\$ 9.86	4	\$39.45
017746	COUPLING,PIPE,1-1/2",SW,F22,3000 LBS	EACH	\$ 15.94	6	\$95.62
017770	TEE,PIPE,1/2",SW,F22,3000 LBS	EACH	\$ 7.16	17	\$121.72
017774	ELBOW,PIPE,45 DEG,1",SW,F22,3000 LBS	EACH	\$ 24.47	5	\$122.33
017780	TEE,PIPE,1-1/2",SW,A105,6000 LBS	EACH	\$ 24.79	3	\$74.37
017786	ELBOW,PIPE,90 DEG,1-1/2",SW,F22,6000 LBS	EACH	\$ 52.65	5	\$263.25
017981	BOLT,HEX SOC HD,7/8"-9X4",STEEL	EACH	\$ -	8	\$0.00
018156	CAPACITOR,ELECTROLYTIC,100 MFD,50 V	EACH	\$ -	3	\$0.00
019342	BEARING,BALL,DBL ROW OPEN,50MM BORE,110MM OD,44.4MM	EACH	\$ 90.42	1	\$90.42
019409	NUT\LOCK.BEARING.N-05..STEEL..	EACH	\$ -	1	\$0.00
019414	COUPLING,DRIVE,GRID TYPE	EACH	\$ -	1	\$0.00
019438	CAPACITOR,ELECTROLYTIC,25 MFD,25 V	EACH	\$ -	3	\$0.00
020374	VALVE\PLUG.3 WAY.1" ..CAST STEEL BODY.FNPT.200# WOG.S	EACH	\$ 442.71	1	\$442.71
020408	BEARING,BALL,SGL ROW OPEN,.9842" BORE	EACH	\$ 8.91	1	\$8.91
021483	DISC,VALVE,SAFETY RELIEF,ELECTROMATIC,1538VX,REF#5	EACH	\$ 1,215.18	2	\$2,430.36
021502	RING,SEAL,VALVE/SAFETY RELIEF ELECTROMATIC #1538	EACH	\$ 317.87	2	\$635.74
022164	GAUGE,PRESS,0-300 PSI,1/2" MNPT LOWER,6" FACE	EACH	\$ 99.75	1	\$99.75
023578	SEAL,SHAFT,OIL,3/4"X1-5/8"X1/4"	EACH	\$ 0.68	7	\$4.77
024509	SPRING,COIL,GATE/SLIDE,STEEL	EACH	\$ -	8	\$0.00
024522	COVER\HANDHOLE.W/OUT HOLE.4-3/8"X6-3/4"X10-3/4".STEEL	EACH	\$ 121.83	3	\$365.48
025059	RELAY,GENERAL PUR,125 VDC,8 POLE	EACH	\$ 63.59	3	\$190.78
025061	RELAY,GENERAL PUR,LATCHING,120 VAC,8 POLE	EACH	\$ 444.88	2	\$889.76
025848	WASHER\LOCK.BRG RET NUT.W-05...STEEL...	EACH	\$ 0.29	1	\$0.29
026173	KIT,REPAIR,TRANSMITTER/FLOW	EACH	\$ -	4	\$0.00
027791	LENS	EACH	\$ 8.50	3	\$25.50
028631	GASKET,PRE CUT,SEPARATOR,RUBBER,1/4X8-1/16"X12-3/8"	EACH	\$ 28.72	1	\$28.72
029159	SEAL,SHAFT,U-CUP,2-1/32"X2-3/8"X3/16"	EACH	\$ 115.00	1	\$115.00

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029161	RING,BACKUP,PACKING,7/32"X2"X2-1/4",STEEL	EACH	\$ 255.00	1	\$255.00
029539	GASKET\PRECUT:DOOR:GUM RUBBER:3/4"X12"X18":140 DEG	EACH	\$ 22.20	1	\$22.20
029587	SHAFT,GATE,5" OR 6" ROTARY SLIDE	EACH	\$ 23.46	6	\$140.77
029871	GUIDE,MECHANICAL, VALVE,1-1/4"X4"X5",STEEL,BOLTED	EACH	\$ -	2	\$0.00
030032	DIAPHRAGM,RUBBER,12"	EACH	\$ 93.33	3	\$280.00
030274	RING,RETAINING,SPIRAL,1/32"X1-13/16"X2-1/8"	EACH	\$ 26.00	1	\$26.00
030364	GASKET\PRECUT..PTFE/CARB.5/16"X2-1/4"X2-3/8"..CIRCULAR..	EACH	\$ 24.30	1	\$24.30
030403	BEARING,BALL,DBL ROW OPEN,1.7716" BORE	EACH	\$ 65.44	1	\$65.44
031113	VALVE,SOLENOID,3 WAY,120 VAC,1/8" FNPT,BRASS,1/8" ORIF	EACH	\$ 264.17	1	\$264.17
032879	SEAL\MECHANICAL::1-3/4"X2-3/8"X4-1/4"::SS\CARBON\TUNGS	EACH	\$ 1,253.00	1	\$1,253.00
032887	RING,RETAINING,INT SNAP,1/8"X3-7/8"X4-3/8"	EACH	\$ -	1	\$0.00
033730	HOUSING,BEARING,REF#134A	EACH	\$ 427.00	1	\$427.00
033743	O-RING\TEFLON:DASH #028::1-5/16"X1-7/16"X1/16":	EACH	\$ 13.91	14	\$194.72
033821	CIRCUIT BD,OUTPUT,ALARM	EACH	\$ 321.33	1	\$321.33
033883	SWITCH,PRESS,25 TO 600 PSI,15 A	EACH	\$ 663.50	1	\$663.50
033969	RELAY,TIMING,ON/DELAY,5 TO 50 SEC,120 VAC	EACH	\$ 138.25	5	\$691.24
034286	DESICCANT\SILICA GEL.SOLID	BOTTLE	\$ 41.75	2	\$83.49
035085	GLASS,LEVEL GAUGE,5/8"X1"X18".PYREX	EACH	\$ 125.70	4	\$502.78
035086	SHIELD,GAUGE GLASS,1"X18",MICA	EACH	\$ 153.00	1	\$153.00
035087	GASKET,PRECUT,GAUGE GLASS,SYNTHETIC,1/16"X1"X18"	EACH	\$ 4.87	13	\$63.25
035187	BEARING,BALL,SGL ROW OPEN,2.1653" BORE	EACH	\$ 48.01	1	\$48.01
035528	GASKET	EACH	\$ -	20	\$0.00
036749	BRUSH,TUBE,4" TRIM	EACH	\$ 4.00	13	\$52.00
037237	NUT,EXTENSION	EACH		9	\$0.00
037993	WASHER\LOCK.BRG RET NUT.W-13...STEEL.PLAIN..	EACH	\$ 0.39	6	\$2.33
038516	BEARING,BALL,SGL ROW OPEN,.3937" BORE	EACH	\$ -	2	\$0.00
040070	WIRE,MESH,INSULATION,42"X650F,304 SS,.011 OPENING	EACH	\$ 535.00	1	\$535.00
040107	RING\BULL.PULV/ASSEMBLY.2-5/8"X6"X19-3/4".XWIN	EACH	\$ 7,582.49	1	\$7,582.49
040110	SHAFT\ROLLER.TAKE UP.40" OAL.	EACH	\$ 589.00	1	\$589.00
040165	ROLL\GRINDING.MILL..	EACH		3	\$0.00
040183	ELBOW,PIPE,90 DEG SEMI-SWEEP,8",FLGD,DURITE	EACH	\$ 1,067.00	4	\$4,268.00
040192	CLEVIS,ROD END,SS 316	EACH	\$ 312.00	1	\$312.00
040195	SHAFT\GATE.WET ASH HOPPER.2"X29-1/2".STEEL..	EACH	\$ 228.00	3	\$684.00
040202	BEARING,PILLOW BLOCK,4 BOLT,2-3/16" SHAFT	EACH	\$ 205.78	2	\$411.55
040204	ADAPTOR,NOZZLE,ASH HOPPER BOTTOM,STEEL	EACH	\$ -	1	\$0.00
040268	SECTION\INLET:JET:6":DURITE	EACH	\$ -	4	\$0.00
040280	SPOOL,PIPE,5"X12",DURITE	EACH	\$ -	1	\$0.00
040316	TUBE,COMBINING,4",DURITE	EACH	\$ 459.06	1	\$459.06
040325	PUMP\JETPULSION.8".....	EACH	\$ 2,111.00	1	\$2,111.00
040327	ELEMENT,RIFFLE	EACH	\$ -	4	\$0.00
040331	CUP,SPRING,6"X11"X17-1/2"	EACH	\$ -	1	\$0.00
040332	RING,RETAINING,HOLD DOWN	EACH	\$ 124.00	12	\$1,488.00
040333	NUT,DEFLECTOR/W SET SCREW	EACH	\$ 1,008.00	1	\$1,008.00
040335	BOLT,HEX HD,1-3/4"-8X10-1/2",STEEL	EACH	\$ 604.75	4	\$2,419.00
040337	ORIFICE,BURNER,4"X14"X15-1/4",STEEL	EACH	\$ -	5	\$0.00
040358	NUT,LOCK,ROLL JOURNAL,13"-5,STEEL	EACH	\$ 633.00	2	\$1,266.00
040362	HOUSING,GATE,BURNER,TWO PIECE	EACH	\$ -	4	\$0.00
040364	SHAFT,GATE,STEEL	EACH	\$ 469.00	1	\$469.00
040367	HOUSING,SEAL,AIR	EACH	\$ -	2	\$0.00
040374	HOUSING,JOURNAL,UPPER	EACH	\$ 5,658.00	1	\$5,658.00
040375	HEADSKIRT,JOURNAL,STEEL	EACH	\$ 2,451.78	1	\$2,451.78
040376	LINER,WEAR,EXHAUSTER THROAT,CERAMIC	EACH	\$ -	2	\$0.00
040377	LINER,WEAR,TOP,CERAMIC	EACH	\$ -	14	\$0.00
040378	LINER,WEAR,1/2"X21-1/2"X25",STEEL	EACH	\$ -	2	\$0.00

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INN	Description	UOM	Unit Cost	Qty	Write-off value
040384	LINER,WEAR,UPPER JOURNAL HOUSING,STEEL	EACH	\$ 760.00	1	\$760.00
040386	LINER,WEAR,JOURNAL HEAD,STEEL	EACH	\$ 1,190.00	2	\$2,380.00
040388	BLADE,FAN,EXHAUSTER 663 PUL.CW,STEEL	EACH	\$ 160.00	16	\$2,560.00
040397	ARM,ACTUATOR,STEEL	EACH	\$ -	17	\$0.00
040404	BUSHING,SLEEVE,SHAFT/TRUNION,STEEL	EACH	\$ 798.00	1	\$798.00
040428	ELBOW,PIPE,90 DEG WEARBACK,12",DURITE	EACH	\$ 208.00	1	\$208.00
040486	SKIRT,LOWER,BOWL HUB ASSY,13-1/2"X30-3/4"X36",STEE	EACH	\$ 5,508.00	1	\$5,508.00
040492	CLAMP,PIPE,BURNER,23-1/2",STEEL	EACH	\$ -	1	\$0.00
040518	ELBOW,PIPE,45 DEG IMPACT,FLGD,DURITE	EACH	\$ 1,127.00	2	\$2,254.00
040524	ELBOW,PIPE,30 DEG LONG RAD,6",.DURITE	EACH	\$ 962.00	2	\$1,924.00
040526	ELBOW,PIPE,45 DEG,5",FLGD,DURITE	EACH	\$ -	6	\$0.00
040527	DOOR,ACCESS,3"X11-3/4"X13",STEEL	EACH	\$ -	4	\$0.00
040537	VALVE,PLUG,MANUAL,2-1/2",CI BODY,FLGD 4 BLT, RUBBE	EACH	\$ 333.55	1	\$333.55
040538	VALVE,PLUG,MANUAL,4",CI BODY,FLGD 8 BLT, 175# CW	EACH	\$ 253.03	2	\$506.05
040540	VALVE,PLUG,MANUAL,4",CLASS 150,CAST STEEL BODY, FLC	EACH	\$ 551.04	2	\$1,102.08
040543	VALVE,CHECK,SWING,4",CLASS 125,CI BODY,FLGD 8 BLT,125	EACH	\$ 211.96	1	\$211.96
040544	VALVE,CHECK,SWING,3",CLASS 125,CI BODY,FLGD 4 BLT,125	EACH	\$ 134.26	1	\$134.26
040917	COIL,CLOSING,STARTER	EACH	\$ -	2	\$0.00
040920	COIL,CLOSING,CONTACTOR,220/440 VAC	EACH	\$ -	1	\$0.00
040937	COIL,CLOSING,BREAKER,125 VDC	EACH	\$ -	1	\$0.00
041016	SWITCH,SNAP ACTION,SUBMINIATURE/ROLLER,125/250 VAC	EACH	\$ -	1	\$0.00
041127	CIRCUIT BD,MEMORY,32K EPROM	EACH	\$ -	2	\$0.00
041128	CIRCUIT BD,MEMORY,16K	EACH	\$ -	2	\$0.00
041130	CIRCUIT BD,MULTI-FUNCT,MS	EACH	\$ 260.89	2	\$521.77
041132	CIRCUIT BD,DRIVER,I/O	EACH	\$ 566.38	2	\$1,132.76
041133	CIRCUIT BD,SDT ALPHA	EACH	\$ 1,733.87	1	\$1,733.87
041159	STARTER,MAGNETIC,REVERSING,SIZE 1,120 VAC,27 A	EACH	\$ 893.01	1	\$893.01
041166	STARTER\MAGNETIC..SIZE 1...10 HP	EACH	\$ 699.75	1	\$699.75
041167	CONTACT,AUXILIARY,STARTER INTERLOCK,6 A,600 VAC,1	EACH	\$ -	3	\$0.00
041190	INSULATOR,GLASS	EACH	\$ -	1	\$0.00
041194	CONTACTOR,MAGNETIC,440/480 VAC COIL,75 A,3 POLE	EACH	\$ 288.97	4	\$1,155.87
041204	CONTACTOR,MAGNETIC,OPEN 3 PH,SIZE 4,440 VAC COIL,1	EACH	\$ 2,911.06	1	\$2,911.06
041215	MOTOR,AC,220/440 V,1/6 HP,1200 RPM,3 PH,56-300IE	EACH	\$ -	1	\$0.00
041227	MOTOR\AC.230/460 V.2 HP.3600 RPM.3 PH.D184Z.HEAVY DUTY	EACH	\$ 623.60	1	\$623.60
041232	BLADE\FAN.3 WING.24" CFM PROP.5/8" BORE.ALUM..30 DEG.	EACH	\$ 86.00	1	\$86.00
041250	BLADE,FAN,MOTOR COOLING,15-1/2",2-1/8"BORE,	EACH	\$ 85.25	1	\$85.25
041304	BRACKET,MECHANISM,BREAKER OPERATING	EACH	\$ -	3	\$0.00
041305	HANDLE,SWITCH,OPERATING MECHANISM,ALU	EACH	\$ -	4	\$0.00
041306	KIT,REPAIR,BREAKER	EACH	\$ -	3	\$0.00
041307	KIT,REPAIR,BREAKER	EACH	\$ -	3	\$0.00
041313	STARTER,MAGNETIC,SIZE 4,150 A/135 A CLOSED	EACH	\$ 1,880.00	2	\$3,760.00
041351	GLOBE,FIXTURE,VAPORTIGHT INCANDESCENT,3-1/4"X6-3/43-	EACH	\$ 23.75	1	\$23.75
041432	GUARD,GLOBE,INCANDESCENT LIGHTING,100W,ALU	EACH	\$ 30.08	7	\$210.56
041439	CONNECTOR,CABLE,MALE,10 AWG,12 PIN	EACH	\$ -	1	\$0.00
041519	RELAY,GENERAL PUR,BF TYPE,120 VAC,4NO 4NC	EACH	\$ -	6	\$0.00
041530	METER,POSITION,VALVE,0-1 CLOSED/OPEN	EACH	\$ -	1	\$0.00
041534	REGULATOR,PRESSURE,0-60 PSI,1/4" FNPT	EACH	\$ 35.91	1	\$35.91
041537	TRIP-UNIT,BREAKER,3 POLE,VARIABLE DELAY,225 AMP	EACH	\$ 198.87	1	\$198.87
041555	RELAY,GENERAL PUR,LIGHTING,120 VAC,6NO	EACH	\$ 216.63	1	\$216.63
041560	HARNES, WIRING	EACH	\$ -	1	\$0.00
041564	INDICATOR,LEVEL,MAIN TRANSFORMER	EACH	\$ -	1	\$0.00
041566	INSULATOR,CERAMIC,BUSHING TYPE/TRANSFORMER	EACH	\$ -	2	\$0.00
041596	ELBOW,CONDUIT,90 DEG,3/4",PVC,SLIP FIT	EACH	\$ 0.13	1	\$0.13
041603	GLOBE\FIXTURE.VAPORTIGHT W/GASKET.100W.H/R GLASS.C	EACH	\$ 28.66	1	\$28.66

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041615	CAPACITOR,ELECTROLYTIC,10 MFD,600 V	EACH	\$ -	1	\$0.00
041618	RESISTOR,WIREWOUND,100 OHM,50W	EACH	\$ -	3	\$0.00
041704	PLUG,CABLE,MALE KP,3 POLE 2 WIRE,115/230 VAC,20 A	EACH	\$ 207.94	3	\$623.82
041798	BREAKER,20 A,240 VAC,3 POLE	EACH	\$ -	2	\$0.00
041802	BREAKER,20 A,120/240 VAC,2 POLE,MC TYPE,10000 AIC	EACH		1	\$0.00
041803	BREAKER,20 A,120/240 VAC,2 POLE	EACH	\$ -	29	\$0.00
041804	BREAKER,30 A,120/240 VAC,3 POLE	EACH	\$ -	10	\$0.00
041806	BREAKER,20 A,120/240 VAC,3 POLE	EACH	\$ -	2	\$0.00
041807	BREAKER,20 A,120/240 VAC,1 POLE	EACH	\$ -	3	\$0.00
041824	BREAKER,20 A,600 VAC,1 POLE	EACH	\$ -	1	\$0.00
041834	BREAKER,300 A,600 VAC,2 POLE,LK TYPE	EACH	\$ -	1	\$0.00
042124	GATE\HOPPER.WET ASH.3/4"X25-1/2"X25-1/2"...	EACH	\$ 10,962.00	3	\$32,886.00
042134	TEE,PIPE,8" ,FLGD,DURITE	EACH	\$ 3,100.00	1	\$3,100.00
042135	PLATE,SIDE,SUPPORT,1/2"X17-1/2" ,DURITE	EACH	\$ 445.00	2	\$890.00
042142	RING,ALIGNING,6"	EACH	\$ -	1	\$0.00
042149	SET,GEAR,RING & PINION	SET	\$ -	1	\$0.00
042277	RELAY,PNEUMATIC,SUDDEN PRESSURE	EACH	\$ -	1	\$0.00
042329	CABLE,HEAT TRACE,5W/FT,2/C,PVC,120 VAC	FOOT	\$ 4.18	100	\$418.00
042442	BLADE,FAN,2 WING,5-3/8"X26-1/4" ,FIBERGLASS,459 PIT	EACH	\$ -	2	\$0.00
042443	KIT,CONTACT	EACH	\$ -	11	\$0.00
042445	BREAKER,600 A,600 VAC,3 POLE	EACH	\$ -	2	\$0.00
042462	BEARING,SLEEVE,3-1/2" BORE	EACH	\$ -	1	\$0.00
042502	BEARING,SLEEVE,3" BORE,SS	EACH	\$ 761.85	1	\$761.85
042503	BEARING\SLEEVE..3" BORE.5" OD.5-3/4" W..STEEL/BABBIT..	EACH	\$ -	1	\$0.00
042504	BEARING\SLEEVE..3-1/2" BORE.4-1/2" OD.4" W..STEEL/BABBIT	EACH	\$ -	1	\$0.00
042507	BEARING\SLEEVE..5" BORE.6-1/4" OD.5-1/4" W..BRONZE/BABB	EACH	\$ -	1	\$0.00
042509	RING,SEAL,OIL,7/16"X5-5/8"X6-3/8" ,BRASS	EACH	\$ -	2	\$0.00
042510	RING,OIL,SPLIT/MOTOR DRIVE END	EACH	\$ 651.95	6	\$3,911.70
042513	RING,SEAL,OIL,3/16"X3-5/8"X4" ,STEEL	EACH	\$ -	1	\$0.00
042517	COUPLING,DRIVE,1-5/8" BORE	EACH	\$ -	1	\$0.00
042518	ASSEMBLY,LAMP,AUTOMOTIVE TURN SIGNAL,12 VDC	EACH	\$ -	1	\$0.00
042520	CONNECTOR,~,16-14 AWG	EACH	\$ -	5	\$0.00
042521	TERMINAL,~,16-14 AWG	BOX	\$ -	1	\$0.00
042522	SWITCH,LIMIT,SNAP ACTION,DP	EACH	\$ -	1	\$0.00
042552	TIMER,ELECTRIC,40/20 SEC,120 VAC,1 A	EACH	\$ 64.10	2	\$128.20
042568	COIL,TRIP,BREAKER,125 VDC	EACH	\$ -	1	\$0.00
042580	COIL,~	EACH	\$ 41.14	4	\$164.57
042581	COIL,CLOSING,RELAY,24 VDC	EACH	\$ -	3	\$0.00
042582	CONTACT,~,SHIRT,1 POLE	EACH	\$ -	1	\$0.00
042620	OPERATOR,SWITCH,PUSHBUTTON,RED	EACH	\$ 6.70	10	\$66.99
042637	OPERATOR,CIRCUIT BKR	EACH	\$ -	1	\$0.00
042640	BLOCK\CONTACT:KA2:240V AC/125V DC:3 A AC/ 1.1 A DC::INC	EACH	\$ 39.70	1	\$39.70
042708	NUT,EXTENSION,1-1/2"-8X25" ,STEEL	EACH	\$ -	1	\$0.00
042709	NUT,EXTENSION,1-1/2"-8X27-1/2" ,STEEL	EACH	\$ -	2	\$0.00
042710	NUT,EXTENSION,1-1/2"-8X29" ,STEEL	EACH	\$ -	2	\$0.00
042711	NUT,EXTENSION,1-1/2"-8X27" ,STEEL	EACH	\$ -	1	\$0.00
042712	STUD,DOWEL,1-3/4"X31-1/4"/1-1/2"-8 TPI, STEEL	EACH	\$ -	1	\$0.00
042713	STUD,MILLED,1-1/2"-8X28-1/2" ,STEEL	EACH	\$ -	1	\$0.00
042715	STUD,MILLED,1-3/4"-8X23-1/4" ,STEEL	EACH	\$ -	1	\$0.00
042716	STUD,MILLED,1-1/2"-8X21-1/2" ,STEEL	EACH	\$ -	1	\$0.00
042717	STUD,DOWEL,2"X33-1/4"/1-3/4"-8 TPI,STEEL	EACH	\$ -	1	\$0.00
042720	STUD,DOWEL,1-3/4"X9"/1-1/2"-8 TPI,STEEL,GR B16	EACH	\$ -	1	\$0.00
042721	STUD,DOWEL,1-3/4"X8-3/4"/1-1/2" TPI ,STEEL	EACH	\$ -	2	\$0.00
042724	RING,RETAINING,PISTON/EXTENSION	EACH	\$ -	8	\$0.00

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INN	Description	UOM	Unit Cost	Qty	Write-off value
042725	RING,RETAINING,PISTON/EXTENSION	EACH	\$ -	5	\$0.00
042741	BOLT,FLAT HD,CLOSING/SLOTTED,7/8"-9X5/8",STEEL	EACH	\$ -	25	\$0.00
042747	BUSHING,SLEEVE,VALVE,1-1/2"X1-3/4"X20-1/2",STEEL	EACH	\$ -	2	\$0.00
042748	ROLLER,GUIDE,SPEED CHANGER	EACH	\$ 290.88	1	\$290.88
042749	BALL,DISC,GOVERNOR,1/4",SS	EACH	\$ -	1	\$0.00
042750	GASKET\PRE CUT.LEAK OFF.STEEL.1/16"X1-7/8"X2-1/2"..CIRCU	EACH	\$ 5.50	3	\$16.50
042753	SPRING,COIL,COMPRESSION,STEEL	EACH	\$ -	2	\$0.00
042756	BUSHING,VALVE,ROD/PISTON,2-1/2"X3-3/4"X3-3/4",BRON	EACH	\$ -	1	\$0.00
042760	BELLOWS,SS,INTERCEPTOR VLV INTERLOCK	EACH	\$ -	1	\$0.00
042761	KEY,MACHINE,1/2"X1/2"X9-1/4",SS	EACH	\$ -	2	\$0.00
042768	NUT,EXTENSION,3"-8X6-3/8",STEEL	EACH	\$ -	7	\$0.00
042770	NUT,EXTENSION,2-1/2"-8X5-7/8",STEEL	EACH	\$ -	5	\$0.00
042772	NUT,HEX,2-1/2"-8,STEEL	EACH	\$ -	1	\$0.00
042776	STUD,DOWEL,1-1/2"-8X21-1/2",STEEL	EACH	\$ -	1	\$0.00
042903	SEAT\GATE:RENEWABLE/ASH SLUICE::	EACH	\$ 1,112.00	2	\$2,224.00
042909	PLATE,MOUNTING,NOZZLE,1/2"X7"X7",STEEL	EACH	\$ 207.00	1	\$207.00
042910	HOPPER,PYRITE W/BAFFLE	EACH	\$ 1,616.00	1	\$1,616.00
042917	RING,GRINDING,EL-64 PULVERIZER TOP,VAM-20	EACH	\$ 17,635.50	1	\$17,635.50
042918	RING,GRINDING,EL-64 PULVERIZER BOTTOM,VAM-20	EACH	\$ 22,336.00	2	\$44,672.00
042935	SEGMENT,COVER,35" TABLE FEEDER CW ROTATION	EACH	\$ 347.81	8	\$2,782.48
042937	LINER,DEFLECTOR,VANE WHEEL,STEEL	EACH	\$ 1,260.00	1	\$1,260.00
042951	RING,CASING	EACH	\$ -	3	\$0.00
042952	RING,ALIGNING,SPIDER,BRONZE	EACH	\$ -	2	\$0.00
042955	CLAMP,PIPE,VICTAULIC,14",DUCTILE IRON	EACH	\$ 87.41	12	\$1,048.87
042956	HOUSING,BEARING,EXHAUSTER FAN	EACH		1	\$0.00
042959	UNIT,HOUSING,CENTER,VAM-20	EACH	\$ 438.00	8	\$3,504.00
042960	UNIT,HOUSING,RIGHT,VAM-20	EACH	\$ 438.00	2	\$876.00
042961	UNIT,HOUSING,LEFT,VAM-20	EACH	\$ 455.50	2	\$911.00
042963	LINER,WEAR,ELBOW BURNER PLATE,STEEL	EACH	\$ -	5	\$0.00
042966	SEGMENT,COVER,35" TABLE FEEDER CCW ROTATION	EACH	\$ 294.80	15	\$4,422.00
042967	SHOE,THRUST BRG,STEEL	EACH	\$ -	2	\$0.00
042968	PLATE,THRUST,STEEL	EACH	\$ -	1	\$0.00
042996	SPRING,COIL,RING/HOLD DOWN,STEEL	EACH	\$ 974.43	1	\$974.43
042999	BALL,GRINDING,PULVERIZER/HOLLOW,11-1/4",VAM-20	EACH	\$ 800.00	2	\$1,600.00
043042	RESISTOR,WIREWOUND,4.8K OHM	EACH	\$ -	7	\$0.00
043073	TRANSFORMR,CURRENT,15/5 RATIO	EACH	\$ 92.98	1	\$92.98
043285	HANDLE,~,1/2"X1-1/2"X6-1/2",STEEL	EACH	\$ -	1	\$0.00
043344	SET,PACKING,TEFLON,7/8"X2-1/2"X3-3/4"	EACH	\$ -	2	\$0.00
043346	STEM,VALVE,PILOT,1-3/8"X20-3/8",SS	EACH	\$ 2,428.00	1	\$2,428.00
043347	RING,RETAINING,PISTON	EACH	\$ -	3	\$0.00
043356	BUSHING,GUIDE,STEM/VALVE,1-3/16"X3-1/4"X11-1/4",ST	EACH	\$ -	1	\$0.00
043365	BOLT,HEX SOC HD	EACH	\$ -	9	\$0.00
043367	BOLT,HEX SOC HD,5/8"-11X1-3/16",GR.B16	EACH	\$ -	6	\$0.00
043368	STUD,MILLED,2-1/2"-8X13-1/4",STEEL	EACH	\$ -	12	\$0.00
043369	RING,SEAL,GLAND/ROTOR,1-5/16"X2-3/16"X11",STEEL	EACH	\$ -	3	\$0.00
043372	RING,SEAL,GLAND,1-5/16"X2-7/8"X12-1/4",STEEL	EACH	\$ -	12	\$0.00
043373	RING,SEAL,ROTOR,1-5/16"X2-3/16"X11",STEEL	EACH	\$ -	4	\$0.00
043374	SPRING,FLAT,SEAL,SS	EACH	\$ -	8	\$0.00
043379	STUD,MILLED,1-1/2"-8X7-3/4",STEEL	EACH	\$ -	2	\$0.00
043383	BOLT,HEX HD,2-1/2"-8X11-1/2",STEEL	EACH	\$ -	1	\$0.00
043384	STUD,MILLED,2-1/2"-8X10",STEEL	EACH	\$ -	1	\$0.00
043385	STUD,MILLED,2-1/2"-8X15-3/4",STEEL	EACH	\$ -	1	\$0.00
043386	STUD,MILLED,2-1/2"-8X14",STEEL	EACH	\$ -	1	\$0.00
043387	STUD,MILLED,2-1/2"-8X9-3/4",STEEL	EACH	\$ -	8	\$0.00

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INN	Description	UOM	Unit Cost	Qty	Write-off value
043388	STUD,DOWEL,2"X18-1/2"/1-3/4"-8 TPI,STEEL	EACH	\$ -	1	\$0.00
043389	STUD,MILLED,1-3/4"-8X15-1/2",STEEL	EACH	\$ -	1	\$0.00
043390	STUD,MILLED,1-3/4"-8X14",STEEL	EACH	\$ -	2	\$0.00
043391	STUD,DOWEL,2"X11-1/4"/1-3/4"-8 TPI,STEEL	EACH	\$ -	1	\$0.00
043392	STUD,MILLED,1-3/4"-8X10",STEEL	EACH	\$ -	1	\$0.00
043393	STUD,MILLED,1-3/4"-8X13-3/4",STEEL	EACH	\$ -	1	\$0.00
043396	NUT,EXTENSION,1-3/4"-8X4-3/4",STEEL	EACH	\$ -	2	\$0.00
043397	NUT,EXTENSION,1-3/4"-8X4",STEEL	EACH	\$ -	1	\$0.00
043399	NUT,EXTENSION,2-1/2"-8X5-3/4",STEEL	EACH	\$ -	2	\$0.00
043402	STUD,DOWEL,TAPERED,2-3/4"X16-3/4"/2-1/2"-8 TPI	EACH	\$ -	1	\$0.00
043403	STUD,DOWEL,2-3/4"X22"/2-1/2"-8 TPI,STEEL	EACH	\$ -	1	\$0.00
043404	STUD,MILLED,2-1/2"-8X20-1/4",STEEL	EACH	\$ -	5	\$0.00
043412	RING,WEAR,LINER,BRONZE	EACH		2	\$0.00
043413	RING,RETAINING,NOZZLE,3/8"X7-15/16"X8-1/2"	EACH	\$ -	5	\$0.00
043414	RING,RETAINING,NOZZLE,3/8"X7-7/8"X8-7/16"	EACH	\$ -	2	\$0.00
043415	BELLOWS,BRONZE,1-3/8"X2"X2-5/8"	EACH	\$ -	1	\$0.00
043420	CUP,VALVE,REF#42	EACH	\$ 343.71	4	\$1,374.86
043424	(OEM)SHOE,THRUST BRG,SUPPORT,ST,1-5/8"X4-9/16"X8"	EACH	\$ -	12	\$0.00
043426	RING,SEAL,STATIONARY	EACH	\$ 647.00	2	\$1,294.00
043427	RING,SEAL,OIL,5/8"X8-1/8"X9-3/16",BRONZE	EACH	\$ -	2	\$0.00
043434	PIN,STOP,LP DUMMY SEAL RING,,219"X12",STEEL	EACH	\$ -	1	\$0.00
043435	PIN,STOP,GLAND SEAL RING,,219"X6",STEEL	EACH	\$ -	2	\$0.00
043436	PIN,STOP,INNER SEAL RING,,219"X9",STEEL	EACH	\$ -	5	\$0.00
043438	ROLLER,CAM,LEVER	EACH	\$ -	2	\$0.00
043439	PIN,STOP,,219"X9-1/2",STEEL	EACH	\$ -	1	\$0.00
043452	PUMP\GEAR.ROTARY.2.5/CW/MMN#8282..CI...	EACH	\$ 3,652.00	1	\$3,652.00
043480	BALL,GRINDING,PULVERIZER/HOLLOW,12-1/4",VAM-20	EACH	\$ 885.12	15	\$13,276.80
043521	SET,RING,BOTTOM SEAL FOR E&EL 64 PULVERIZER WITH ON	SET	\$ 5,886.50	1	\$5,886.50
043610	HOLDER,NOZZLE,10 DEGREE ANGLE POSITION,4"X18",CI	EACH	\$ 140.67	4	\$562.67
043616	SUPPORT,MECHANICAL,1/4"X1-1/4"X9-1/2",STEEL	EACH	\$ -	8	\$0.00
043620	SET,GEAR,RING & PINION	EACH	\$ 6,022.00	1	\$6,022.00
043853	FUSE,ONE-TIME,CURRENT LIMITING,1/2 A,14.4 KV	EACH	\$ 237.63	6	\$1,425.78
043886	METER,AMP,0-300 A,FS=5 A	EACH	\$ -	2	\$0.00
043892	DIODE,ZENER,12 V,2 PINS	EACH	\$ -	2	\$0.00
043893	DIODE,RECTIFIER,2 PINS	EACH	\$ -	2	\$0.00
043894	DIODE,RECTIFIER,2 PINS	EACH	\$ -	4	\$0.00
043896	SWITCH,TOGGLE,DP	EACH	\$ -	3	\$0.00
043897	DIODE,RECTIFIER,2 PINS	EACH	\$ -	3	\$0.00
043898	DIODE,RECTIFIER,2 PINS	EACH	\$ -	3	\$0.00
043899	CAPACITOR,ELECTROLYTIC,21500 MFD,35 V	EACH	\$ -	1	\$0.00
043900	METER,AMP,0-50 A	EACH	\$ -	2	\$0.00
043901	METER,VOLT,0-160 V	EACH	\$ -	2	\$0.00
043902	METER,VOLT,AC,0-150 V	EACH	\$ -	3	\$0.00
043904	METER,AMP,AC/ANALOG,0-5 A	EACH	\$ 245.44	1	\$245.44
043905	METER,KILOVOLT,AC,0-150 KV	EACH	\$ -	1	\$0.00
044224	METER,AMP,0-2 A	EACH	\$ 53.33	2	\$106.67
044227	METER,AMP,0-1.5 A	EACH	\$ 120.55	1	\$120.55
044322	MODULE,INPUT,AC	EACH	\$ -	5	\$0.00
044381	VALVE,SOLENOID,3 WAY,120 VAC,1/4" FNPT,SS/BRASS, 100#	EACH	\$ 141.25	4	\$565.00
044382	VALVE,SOLENOID,3 WAY,120 VAC,1/4" FNPT, STEEL/BRA	EACH	\$ 214.71	2	\$429.43
044411	MODULE,INPUT,ANALOG/8 BIT	EACH	\$ 922.60	2	\$1,845.20
044412	MODULE,OUTPUT,CONTACT/8 N.O.	EACH	\$ -	2	\$0.00
044414	MODULE,OUTPUT,120 VAC	EACH	\$ -	5	\$0.00
044415	MODULE,INPUT,ANALOG/12 BIT	EACH	\$ -	1	\$0.00

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INN	Description	UOM	Unit Cost	Qty	Write-off value
044425	KIT,REPAIR,VALVE/SOLENOID	EACH	\$ -	4	\$0.00
044436	PIPE,ASH,6",NUVALOY	FOOT	\$ 62.91	16	\$1,006.56
044468	VALVE,BALL,MANUAL,1/2",STEEL BODY,FNPT,SS BALL	EACH	\$ 100.39	2	\$200.78
044536	KIT,FILTER,DRIVE,3 PCS	KIT	\$ 48.23	2	\$96.46
044554	ARM,PEN,RECORDER,1/4"X2-3/4",STEEL	EACH	\$ -	4	\$0.00
044555	ARM,PEN,RECORDER,1/4"X2-3/4",STEEL	EACH	\$ 1.99	1	\$1.99
044557	TRANSMITTR,TEMP,PNEUMATIC,0-600 DEGF	EACH	\$ -	2	\$0.00
044558	BELLOWS,COPPER,1-1/4"X1-5/8"	EACH	\$ -	2	\$0.00
044560	SPRING,COIL,ADJUSTING/RELAY C-D,STEEL	EACH	\$ -	3	\$0.00
044561	SCALE,INDICATOR,TRANSMITTER,0-30" H2O	EACH	\$ -	1	\$0.00
044562	SPRING,LEAF	EACH	\$ -	4	\$0.00
044563	SPRING,LEAF	EACH	\$ -	3	\$0.00
044565	POINTER,INSTRUMENT	EACH	\$ -	1	\$0.00
044566	SPRING,FLAT	EACH	\$ -	1	\$0.00
044567	WASHER	EACH	\$ -	12	\$0.00
044568	LINKAGE	EACH	\$ -	1	\$0.00
044579	DIAPHRAGM,NEOPRENE	EACH	\$ -	2	\$0.00
044642	BUSHING,SLEEVE	EACH	\$ 307.50	1	\$307.50
044643	STEM,VALVE,DUMP,3-1/8"X8",STEEL	EACH	\$ 3,306.00	1	\$3,306.00
044644	DIAPHRAGM(TEFLON..1/16"X13-1/4"..	EACH	\$ 62.00	1	\$62.00
044645	BUSHING,VALVE,1-1/16"X1-9/16"X1",STEEL	EACH	\$ -	1	\$0.00
044646	BUSHING,VALVE,UPPER,1-1/16"X2-9/16",STEEL	EACH	\$ 1,145.00	1	\$1,145.00
044647	CUP,VALVE,3/8"X1-1/4"	EACH	\$ 204.00	1	\$204.00
044648	BUSHING,VALVE,SEAT,3/4"X1-1/2"X1-1/8",STEEL	EACH	\$ 95.00	1	\$95.00
044649	GASKET,PRECUT,COPPER,1/32"X1"X1-7/16"	EACH	\$ -	1	\$0.00
044652	GASKET,PRECUT,STEEL,1/32"X1-7/8"X2-1/2"	EACH	\$ -	16	\$0.00
044654	GASKET\PRECUT..STEEL.1/32"X1-5/16"X1-11/16"..CIRCULAR...	EACH	\$ 6.41	2	\$12.83
044659	PLATE,THRUST,LINER,14-1/2"X24-9/16",STEEL	EACH		1	\$0.00
044660	(OEM)SHOE,THRUST BRG,SUPPORT,BABBIT/STEEL	EACH	\$ -	6	\$0.00
044662	NUT,EXTENSION,3-1/2"-8X6-1/4",STEEL	EACH	\$ -	1	\$0.00
044663	NUT,EXTENSION,3-1/2"-8X7-1/4",STEEL	EACH	\$ -	6	\$0.00
044665	NUT,EXTENSION,4"-8X8-1/4",STEEL	EACH	\$ -	1	\$0.00
044670	NUT,EXTENSION,2-3/4"-8X6",STEEL	EACH	\$ -	1	\$0.00
044671	(OEM)SHOE,THRUST BRG,SUPPORT,STEEL	EACH	\$ -	6	\$0.00
044672	STUD,MILLED,1-1/2"-8X8",STEEL	EACH	\$ -	1	\$0.00
044673	STUD,MILLED,1-1/2"-8X8",STEEL	EACH	\$ -	4	\$0.00
044674	STUD,DOWEL,1-1/2"-8X9"/1-3/8"-TPI,STEEL	EACH	\$ 88.73	6	\$532.36
044675	STUD,MILLED,1-1/2"-8X8-3/4",STEEL	EACH	\$ 101.33	1	\$101.33
044676	STUD,MILLED,1-1/2"-8X9-1/4",STEEL	EACH	\$ 104.89	8	\$839.11
044678	STUD,MILLED,1-1/2"-8X9-1/2",STEEL	EACH	\$ -	1	\$0.00
044680	STUD,MILLED,2"-8X22",STEEL	EACH	\$ -	1	\$0.00
044681	STUD,DOWEL,2-1/2"X13-1/4"/2-1/4"-8 TPI,STEEL	EACH	\$ -	1	\$0.00
044682	STUD,DOWEL,2-1/4"X11-3/4"/2"-8 TPI,STEEL	EACH	\$ -	1	\$0.00
044683	STUD,MILLED,2-1/4"-8X10-1/4",STEEL	EACH	\$ -	1	\$0.00
044684	STUD,MILLED,2"-8X10-1/2",STEEL	EACH	\$ 130.48	28	\$3,653.33
044685	STUD,MILLED,2"-8X16",STEEL	EACH	\$ -	1	\$0.00
044687	STUD,DOWEL,2-1/4"X14-1/2"/2"-8 TPI,STEEL	EACH	\$ -	1	\$0.00
044688	STUD,MILLED,2-1/4"-8X15-1/2",STEEL	EACH	\$ -	1	\$0.00
044689	STUD,MILLED,1-1/2"-8X15-1/4",STEEL	EACH	\$ -	1	\$0.00
044690	STUD,DOWEL,2-1/2"X13-1/2"/2-1/4"-8 TPI,STEEL	EACH	\$ -	1	\$0.00
044691	STUD,MILLED,2"-8X11-1/2",STEEL	EACH	\$ -	1	\$0.00
044698	RING,SEAL,OIL,9.249",BRONZE	EACH	\$ 1,017.00	2	\$2,034.00
044702	RING,SEAL,OIL,7.860",BRONZE	EACH	\$ -	1	\$0.00
044703	RING,SEAL,OIL,7.861",BRONZE	EACH	\$ -	1	\$0.00

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INN	Description	UOM	Unit Cost	Qty	Write-off value
044704	RING,CASING,SPLIT,REF#21	EACH	\$ -	1	\$0.00
044705	BEARING\SLEEVE.5" BORE.7-1/4" OD.3-7/16" L.STEEL/BABBIT	EACH	\$ -	1	\$0.00
044706	DIAPHRAGM,NEOPRENE,1/32"X3-3/8"X3-3/8"	EACH	\$ 34.00	4	\$136.00
044708	BELLOWS,BRONZE,3"X4"X7",1250 TO 2480 PSI	EACH	\$ -	1	\$0.00
044709	DIAPHRAGM ,STEEL,CUP VALVE	EACH	\$ 1.40	6	\$8.40
044713	GASKET,PRECUT,STRIP/VALVE,SYNTHETIC,1/16"X3/4"X13-	EACH		1	\$0.00
044715	GASKET,PRECUT,SYNTHETIC,1/32"X9-1/4"X15-1/4"	EACH	\$ -	1	\$0.00
044716	GASKET,CYLINDER,REF#51	EACH	\$ -	1	\$0.00
044717	BELLOWS,BRONZE,2-1/8"X3-1/8"X5-1/4"	EACH	\$ -	2	\$0.00
044718	RING,RETAINING,PISTON,3/8"X11-1/2"X12-3/8"	EACH	\$ -	4	\$0.00
044719	STUD,MILLED,1-1/4"-8X6",STEEL	EACH	\$ 12.41	26	\$322.76
044722	CUP,VALVE,1/2"X1-1/2"	EACH	\$ -	1	\$0.00
044723	SEAT,VALVE,3/4"X1-1/4"X1-3/4",STEEL	EACH	\$ -	1	\$0.00
044726	CUP,VALVE,1/2"X1-3/16"	EACH	\$ -	1	\$0.00
044727	SEAT,VALVE,STEEL	EACH	\$ -	3	\$0.00
044729	SEAT,VALVE,GOVERNOR/CUP,STEEL	EACH	\$ -	1	\$0.00
044732	RING,WEAR,VALVE,STEEL	EACH	\$ -	2	\$0.00
044733	BUSHING,YOKE,VALVE,3"X3-1/4"X4-5/8",STEEL	EACH	\$ -	3	\$0.00
044737	NUT,BELL SEAL	EACH	\$ 750.00	2	\$1,500.00
044738	RING,RETAINING,PISTON,1/8"X2-1/16"X2-1/4"	EACH	\$ 159.00	1	\$159.00
044739	SEAT,VALVE,GOVERNOR/CUP,STEEL	EACH	\$ -	1	\$0.00
044740	CUP,VALVE,GOVERNOR,5/8"X1-1/4"	EACH	\$ -	1	\$0.00
044743	NUT\HEX..1-3/8"-8..STEEL...	EACH	\$ 13.50	16	\$216.00
044744	KEY,MACHINE,VALVE/REHEAT STOP,5/8"X5/8"X3-1/2"	EACH	\$ -	2	\$0.00
044745	KEY,MACHINE,1-3/8"-8X7-1/2",STEEL,ROUND SHAPE	EACH		4	\$0.00
0448119	RING\BACKUP.VALVE.2"...	EACH	\$ 67.50	1	\$67.50
044830	SEAL,SHAFT,COLLAR,1-1/8"X1-1/4"X1/8"	EACH	\$ -	2	\$0.00
044841	SLEEVE,SHAFT,PUMP,2-3/16"X2-11/16"X5-1/2",BRONZE	EACH	\$ -	15	\$0.00
044858	SPOOL,PIPE,3-1/8"X6"X4-1/4",STEEL,FLANGED	EACH	\$ -	1	\$0.00
044910	KIT,REPAIR,VALVE/SOLENOID	EACH	\$ 253.21	5	\$1,266.06
044966	GAUGE\PRESS:0-800 PSI:1/4" MNPT LOWER:2-1/2" FACE:SS:10 P	EACH	\$ 27.25	3	\$81.74
045104	PIPE,WELDED,1-1/4",MI/BLACK IRON,SCH 40	FOOT	\$ 1.94	9	\$17.42
045107	PIPE,SEAMLESS,3/4",P22,SCH 160	FOOT	\$ 16.17	0.1	\$1.62
045113	PIPE,WELDED,1/4",MI/BLACK IRON,SCH 40	FOOT	\$ 3.70	84	\$310.81
045131	PIPE,WELDED,1-1/4",STEEL/GALV,SCH 40	FOOT	\$ -	140	\$0.00
045152	PIPE,SEAMLESS,1-1/2",A106B,SCH 160	FOOT	\$ 13.67	18	\$246.06
045172	PIPE\SEAMLESS.1-1/2".A106B.SCH XXH.	FOOT	\$ 18.96	21	\$398.16
045238	GASKET,PRECUT,MONEL,1/16"X7-1/2"X8-1/2",CIRCULAR	EACH	\$ -	3	\$0.00
045274	RING,RETAINING,ALCO HEATER TYPE D9-44-71V, S/N 5100	EACH	\$ 3,871.00	1	\$3,871.00
045296	GASKET,SPIRAL WOUND,17" PIPE,STEEL	EACH	\$ -	1	\$0.00
045302	NUT,EXTENSION,3-1/2"-8X6-1/4",STEEL	EACH	\$ -	1	\$0.00
045304	END,ROD	EACH	\$ -	1	\$0.00
045307	STUD,MILLED,2"-8X10-1/4",STEEL	EACH	\$ -	1	\$0.00
045308	STUD,MILLED,2"-8X8-1/4",STEEL	EACH	\$ -	1	\$0.00
045310	STUD,MILLED,2"-8X14-1/4",STEEL	EACH	\$ -	1	\$0.00
045311	STUD,DOWEL,TAPERED,2-3/4"X17-1/4"/2-1/2"-8 TPI	EACH	\$ -	1	\$0.00
045312	STUD,MILLED,2-1/4"-8X18-1/2",STEEL	EACH	\$ -	1	\$0.00
045313	STUD,MILLED,2-1/4"-8X17",STEEL	EACH	\$ -	1	\$0.00
045314	STUD,MILLED,2-1/4"-8X21-3/4",STEEL	EACH	\$ -	1	\$0.00
045315	STUD,MILLED,2-1/4"-8X20-1/4",STEEL	EACH	\$ -	1	\$0.00
045318	BOLT,HEX SOC HD,1/2"-13X1-1/4",STEEL	EACH	\$ 53.45	12	\$641.38
045320	GASKET,BULK,RUBBER,3/8"X3/8"X6F,STRIP	EACH	\$ -	1	\$0.00
045327	CUP,VALVE,7/16"X3/4"	EACH	\$ -	1	\$0.00
045328	CUP,VALVE,GOVERNOR,9/16"X1-1/4"	EACH	\$ -	2	\$0.00

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INN	Description	UOM	Unit Cost	Qty	Write-off value
045330	RING,SEAL,CV,5/8"X2-1/2"X3-1/2",TEFLON	EACH	\$ 13.00	9	\$117.00
045331	BOLT,ROUND HD,SLOTTED,3/8"-16X3/4",STEEL	EACH	\$ -	10	\$0.00
045332	RING,RETAINING,PISTON,1/4"X6-13/16"X7-5/16"	EACH	\$ -	4	\$0.00
045341	WASHER,FLAT	EACH	\$ 1.00	4	\$4.00
045348	RING,SEAL,VALVE,7/8"X17-5/8"X19-1/16",SS	EACH	\$ -	6	\$0.00
045349	RING,SEAL,INT. VALVE/EXPANSION	EACH	\$ -	2	\$0.00
045360	STUD,MILLED,2-1/2"-8X15-1/2",STEEL	EACH	\$ 759.33	5	\$3,796.67
045361	BUSHING,GUIDE,TV	EACH	\$ 392.00	2	\$784.00
045367	PIN,CLEVIS,INTERCEPTOR VLV,1"X15-1/8",STEEL	EACH	\$ -	1	\$0.00
045376	BOLT,HEX SOC HD,1"-8X8",STEEL	EACH	\$ -	4	\$0.00
045379	BUSHING,VALVE,STEAM CHEST,STEEL	EACH	\$ -	6	\$0.00
045395	STUD,MILLED,1-1/4"-8X8",STEEL	EACH	\$ 130.67	32	\$4,181.33
045397	RING,SPACER,STEEL	EACH	\$ -	2	\$0.00
045398	SET,PACKING,TEFLON,3/8"X2"X2-3/4"	EACH	\$ -	8	\$0.00
045399	PLATE,SEAL,PORTED,1/2"X6"X6-1/8",STEEL	EACH	\$ -	1	\$0.00
045405	RING,BACKUP,DIAPHRAGM/SUPPORT/LOWER	EACH	\$ 70.33	1	\$70.33
045407	STUD,MILLED,1-1/4"-8X7-1/2",STEEL	EACH	\$ -	1	\$0.00
045872	HOUSING,FILTER,STYLE FB4	EACH	\$ 15.27	16	\$244.27
045889	KIT,BOLT/SCREW,COUPLING	EACH	\$ -	1	\$0.00
045914	IMPELLER\PUMP...6.938".BRONZE.3.CCN: 66785776	EACH	\$ 4,697.00	1	\$4,697.00
045930	SLEEVE,SHAFT,PUMP,4-1/2"X6-1/2"X1-3/4",STEEL	EACH	\$ -	1	\$0.00
045935	COUPLING,DRIVE,JAW TYPE COMPLETE,1-1/8" BORE	EACH	\$ 23.61	1	\$23.61
045937	NUT,SHAFT SLEEVE	EACH	\$ 325.00	2	\$650.00
045940	SLEEVE\SHAFT..1-3/8"ID X 1-7/8"OD X 7"L.BRONZE..7" L	EACH	\$ 611.50	2	\$1,223.00
045944	BOLT,HEX HD,1-1/8"-8X9-7/8",GR.B7,STEEL	EACH	\$ -	4	\$0.00
045945	PLUG,TUBE,HEATER,1/2"X3",STEEL	EACH	\$ -	7	\$0.00
045946	PLUG,TUBE,HEATER,1/2"X2",STEEL	EACH	\$ -	25	\$0.00
045947	RING,SEAL,HEATER,1/32"X8-1/4"X9-3/4",SS	EACH	\$ -	4	\$0.00
045948	RING,SEAL,HEATER,8-11/16"X9-13/16",STEEL	EACH	\$ -	1	\$0.00
045953	SLEEVE,PACKING,1-5/16"X1-3/4"X3-1/2",BRONZE	EACH	\$ -	1	\$0.00
045956	RING,BACKUP,VALVE/PLUG,1/32"X1-3/4"X3-3/16",STEEL	EACH	\$ -	2	\$0.00
046453	O-RING,NEOPRENE,DASH #345,4"X4-3/8"X3/16"	EACH	\$ 0.78	96	\$75.29
046653	POT,*,FEEDBACK,2K OHM	EACH	\$ 70.20	1	\$70.20
046687	SHAFT,~,1-1/2"X19-1/4"	EACH	\$ -	1	\$0.00
046700	BEARING,BALL,DBL ROW OPEN SELF ALIGN,1.5748" BORE	EACH	\$ -	2	\$0.00
046701	RING,RETAINING,BEARING,21/32"X2-3/4"X3-1/8"	EACH	\$ -	2	\$0.00
046836	GASKET,PRECUT,STEEL,1/16"X1-5/8"X2-1/8"	EACH	\$ -	1	\$0.00
047252	VALVE,NEEDLE,2 WAY MANUAL,1/4",SS BODY,MNPT,5000#,SS	EACH	\$ 56.81	1	\$56.81
047254	VALVE,NEEDLE,2 WAY MANUAL,1/4",BRASS BODY,FLARED, 3	EACH	\$ 38.89	5	\$194.43
047348	GASKET,PRECUT,ASBESTOS/COPPER,3/32"X9-3/16"X9-7/16	EACH	\$ -	15	\$0.00
047385	SLEEVE,SHAFT,PUMP	EACH	\$ 689.00	1	\$689.00
047386	RING,SEAL,IMPELLER,1/8"X1-1/4"X1-1/2",BRASS	EACH	\$ -	1	\$0.00
047387	RING,SEAL,PACKING,1/8"X1-1/4"X1-1/2",STEEL	EACH	\$ -	2	\$0.00
047388	SHIM,SS,PUMP,.002"X15/16"X1-1/2"	SET	\$ 10.75	1	\$10.75
047400	GAUGE,PRESS,0-30 PSI,1/4" MNPT LOWER,2-1/2" FACE.BRASS..	EACH	\$ 16.03	1	\$16.03
047403	GAUGE,PRESS,0-30 PSI,1/4" MNPT BACK,2-1/2" FACE	EACH	\$ 13.00	2	\$26.00
047410	GAUGE,PRESS,0-600 PSI,1/4" MNPT CENT/BACK,2-1/2" FACE	EACH	\$ 14.04	1	\$14.04
047513	VALVE\BALL,2 WAY,1/4" .BRASS BODY.MNPT X FNPT..BRASS	EACH	\$ 7.94	2	\$15.88
047520	VALVE,CHECK,SWING,1/2",CLASS 150,BRASS BODY, FNPT, 150	EACH	\$ 47.56	1	\$47.56
047522	VALVE,CHECK,SWING,3/4",CLASS 150,BRASS BODY, FNPT, 150	EACH	\$ 11.04	3	\$33.12
047538	VALVE,GLOBE,T PATTERN,1/4",CLASS 150,BRONZE BODY FN	EACH	\$ 50.20	2	\$100.40
047542	VALVE,GATE,RISING STEM,3/8",CLASS 125,BRONZE BODY, FNI	EACH	\$ 38.11	2	\$76.21
047544	VALVE,GLOBE,T PATTERN,1",CLASS 125,BRONZE BODY, FNF	EACH	\$ 54.55	1	\$54.55
047569	VALVE,GATE,RISING STEM,1-1/2",CLASS 125, BRONZE BC	EACH	\$ 80.69	1	\$80.69

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INN	Description	UOM	Unit Cost	Qty	Write-off value
047570	VALVE,GLOBE,T PATTERN,1-1/2",CLASS 150,BRONZE BODYFN	EACH	\$ -	7	\$0.00
047581	VALVE,GLOBE,T PATTERN,1/2",CLASS 1500,A105 BODY, SW,3	EACH	\$ 144.71	3	\$434.12
047594	VALVE,GATE,RISING STEM,1",CLASS 200,SS 316 BODY, FNPT,	EACH	\$ 202.75	1	\$202.75
047770	GASKET,SPIRAL WOUND,3" PIPE,STYLE R,316/FLEXICARB	EACH	\$ -	2	\$0.00
047781	GASKET,SPIRAL WOUND,STYLE R,1/8" X 2-7/16" X 3-1/8",316 SS	EACH	\$ -	1	\$0.00
047984	BEARING\SLEEVE..3-3/4" BORE.4-3/4" OD.8" W..RUBBER..	EACH	\$ -	17	\$0.00
048056	NOZZLE\FIRE HOSE.NH/NST, 9TPI.1-1/2".LEXAN	EACH	\$ 18.35	9	\$165.12
048103	PLUG,TUBE,HEATER,.520",SS	EACH	\$ -	30	\$0.00
048115	BELT,V	EACH	\$ 3.47	1	\$3.47
048140	SET,PACKING,GRAPHITE,1-31/32"X2-23/32"	EACH	\$ -	1	\$0.00
048143	SET,PACKING,GRAPHITE,1/2"X4-1/2"X5-1/2"	EACH	\$ -	1	\$0.00
0482227	FILTER,INLET,PROBE,COARSE CEMS GAS SAMPLING SYSTEM	EACH	\$ 94.00	2	\$188.00
048353	BEARING,BALL,LINEAR TYPE,2" BORE,3" OD,4" L	EACH	\$ 138.75	1	\$138.75
048356	BEARING\THRUST.4 PIECE.2.750" BORE.4.655" O.D...	EACH	\$ 396.03	1	\$396.03
048357	BEARING,THRUST,3 PIECE,2.5000" BORE	EACH	\$ 259.54	1	\$259.54
048368	BEARING,THRUST,SPHERICAL ROLLER,5.9055" BORE,11.8110"	EACH	\$ -	1	\$0.00
048369	BEARING,ROLLER,SGL ROW CYL W/INNER RACE	EACH	\$ 588.10	1	\$588.10
048385	BEARING,THRUST,CYL ROLLER,6" BORE,10" OD,2" W	EACH	\$ 424.00	3	\$1,272.00
048393	BEARING,BALL,SGL ROW 2 SHIELDS W/RING,2.3622" BORE	EACH	\$ 97.47	1	\$97.47
048408	BEARING,ROLLER,SGL ROW CYL,5.1181" BORE	EACH	\$ 434.43	1	\$434.43
048455	VALVE,GLOBE,Y PATTERN,1-1/2",CLASS 1690,F22 BODY, SW,1	EACH	\$ 1,302.67	1	\$1,302.67
048457	VALVE,GLOBE,T PATTERN,1/2",CLASS 1500,F11 BODY,SW,STE	EACH	\$ 780.67	1	\$780.67
048479	VALVE,GLOBE,T PATTERN,1/2",CLASS 800, A105 BODY, FNPT,	EACH	\$ 85.81	3	\$257.43
048493	VALVE,GATE,1/4",CLASS 800,A105 BODY,SW, 1975# @ 10	EACH	\$ 22.41	6	\$134.46
048501	VALVE,GLOBE,T PATTERN,3/8",CLASS 600,A105 BODY,SW,600	EACH	\$ -	7	\$0.00
048529	BUSHING,PIPE,REDUCING HEX,2"X3/4",A105,3000 LBS	EACH	\$ 5.14	4	\$20.56
048530	BUSHING,PIPE,REDUCING HEX,2"X1-1/4",A105,3000 LBS	EACH	\$ 3.19	2	\$6.39
048657	SET,PACKING,GRAPHITE,1/4"X1/1-4"X1-3/4"	EACH	\$ -	15	\$0.00
048662	SEAL,SHAFT,U-CUP,5/8"X1-1/8"X1/4"	EACH	\$ 21.00	1	\$21.00
048663	SEAL,SHAFT,U-CUP,5/8"X1-1/8"X5/16"	EACH	\$ 60.27	2	\$120.54
048667	GASKET,PRECUT,PAPER,1/16"X6-1/2"X8-1/4"	EACH	\$ -	1	\$0.00
048668	GASKET,PRECUT,FIBROUS PAPER,1/16"X6"X7-1/2"	EACH	\$ -	2	\$0.00
048671	RING,PISTON,1/4"X6",BRONZE	EACH	\$ 142.68	2	\$285.36
048681	GASKET,PRECUT,PAPER,1/16"X4"X4-3/4"	EACH	\$ -	1	\$0.00
048715	DISPLAY,DIGITAL,LED/4 DIGIT,4-20 MADC/0-3000 CTS	EACH	\$ 249.00	1	\$249.00
048716	DISPLAY,DIGITAL,LED/4 DIGIT,1-5 VDC/0-100%,RED	EACH	\$ 281.88	1	\$281.88
048717	CELL,CONDUCTIVITY,GENERAL PURPOSE,1"X4-3/8" W/4 FT	EACH	\$ -	1	\$0.00
048755	VALVE,SOLENOID,2 WAY,115 VAC,1/4" FNPT,SS,5000#, 1/8" OR	EACH	\$ -	1	\$0.00
048756	COIL,SOLENOID,120 VAC	EACH	\$ -	1	\$0.00
049050	HOUSING,ROTOR,PUMP	EACH	\$ -	1	\$0.00
049051	BASE,MOUNTING,PUMP,6-5/8"X7",STEEL,BOLTED	EACH	\$ -	1	\$0.00
049082	HUB\COUPLING.ASSEMBLY.KOPFLEX FULL FLEX.COMPLETE	EACH	\$ 1,058.89	1	\$1,058.89
049243	NIPPLE,PIPE,3"X4",MI/BLACK IRON,SCH 40	EACH	\$ 7.83	2	\$15.67
049273	ELBOW,PIPE,90 DEG LONG RAD,2",BW,A234,SCH 80	EACH	\$ 12.99	1	\$12.99
049395	BOLT,HEX SOC HD,FULL THREAD,1"-8X2-1/2",GR.8,STEELPLAI	EACH	\$ 4.80	16	\$76.80
049397	RING,SEAL,EXHAUSTER,3/8"X6-1/2"X10-1/2",STEEL	EACH	\$ -	1	\$0.00
049407	BOLT,ADJUSTING/SPRING	EACH	\$ 1,395.39	2	\$2,790.79
049417	SET,SHIM,JOURNAL HSG,STEEL	EACH	\$ 312.63	1	\$312.63
049542	KNOB,CONTROL,BIAS/SET POINT,3/16"SHAFT,1-1/8" D	EACH	\$ -	6	\$0.00
049543	SET,PACKING,NEOPRENE,5/16"X3/4"X5/32"	EACH	\$ -	9	\$0.00
049544	DIAPHRAGM	EACH	\$ 11.00	45	\$494.99
049545	SPRING	EACH	\$ -	2	\$0.00
049546	DIAPHRAGM	EACH	\$ -	1	\$0.00
049547	CAP	EACH	\$ -	2	\$0.00

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049549	SCREW,SQUARE HD,3/16"-18X7/8",BRONZE	EACH	\$ -	1	\$0.00
049550	GEAR	EACH	\$ -	2	\$0.00
049551	KNOB,CONTROL	EACH	\$ -	1	\$0.00
049556	FOLLOWER,CAM,STEEL	EACH	\$ -	2	\$0.00
049557	SCREW,~,RELIEF,1/8"X1/4"-28X1-3/8"	EACH	\$ -	5	\$0.00
049572	RECTIFIER,BRIDGE,FULL WAVE,9 PIN	EACH	\$ -	1	\$0.00
049573	KIT,CONVERSION,CYLINDER 6"	EACH	\$ 485.52	4	\$1,942.06
049580	LINKAGE,ACTUATOR,BALL/SOCKET	EACH	\$ -	1	\$0.00
049581	GAUGE,PRESS	EACH	\$ -	3	\$0.00
049582	KIT,CONVERSION,CYLINDER 4"	EACH	\$ -	1	\$0.00
049586	GLASS	EACH	\$ -	1	\$0.00
049589	CUP,CYLINDER,PNEUMATIC	EACH	\$ -	5	\$0.00
049594	LINKAGE,GAUGE	EACH	\$ -	2	\$0.00
049613	MOTOR,AC,20/118 V,16 RPM,SGL PH	EACH	\$ -	2	\$0.00
049632	CONTACT,SLIDEWIRE	EACH	\$ -	4	\$0.00
049634	DIAPHRAGM,NEOPRENE,12-3/4"	EACH	\$ 87.39	1	\$87.39
049665	BALL,GRINDING,PULVERIZER/HOLLOW,10-1/2",VAM-20	EACH	\$ 794.00	1	\$794.00
049931	STUD,MILLED,5-1/8"-8X32-1/2",STEEL	EACH	\$ -	1	\$0.00
049934	STUD,MILLED,2-3/4"-8X24",STEEL	EACH	\$ -	2	\$0.00
049936	STUD,DOWEL,3-1/4"X20-1/4"/3"-8 TPI,STEEL	EACH	\$ -	1	\$0.00
049941	STUD,MILLED,2-1/2"-8X25",STEEL	EACH	\$ -	1	\$0.00
049942	STUD,DOWEL,3"X25-3/4"/2-3/4"-8 TPI,STEEL	EACH	\$ -	1	\$0.00
049944	STUD,MILLED,3"-8X25-1/4",STEEL	EACH	\$ -	1	\$0.00
050004	BEARING,ROLLER,DBL ROW TAPER COMPLETE,CONSISTING	EACH	\$ 1,376.50	3	\$4,129.50
050005	BEARING,ROLLER,SGL ROW CYL W/INNER RACE	EACH	\$ 4,969.20	1	\$4,969.20
050017	CUP,BEARING,TAPERED	EACH	\$ 17.99	1	\$17.99
050023	CONE,BEARING,DBL ROW TAPERED,1.5748" BORE	EACH	\$ 35.04	1	\$35.04
050079	BEARING,BALL,SGL ROW OPEN,1.1811" BORE	EACH	\$ -	3	\$0.00
050106	GASKET,PRECUT,EXHAUSTER,CORK,1/4"X5/8"X2-3/16"	EACH	\$ 1.44	52	\$74.74
050146	BUSHING,SLEEVE,11-1/4"X11-3/4"X4-1/2",SS	EACH	\$ 2,067.00	1	\$2,067.00
050154	WASHER,LOCK,SPLIT SPRING,3/8" BOLT,1/8" T,1/2" OD	EACH	\$ -	99	\$0.00
050161	BUSHING,JOURNAL,STOP,STEEL	EACH	\$ -	13	\$0.00
050163	BOLT,FLAT HD,HEX SOCKET,5/8"-11X4-1/2",STEEL	EACH	\$ -	2	\$0.00
050164	BOLT,FLAT HD,HEX SOCKET,5/8"-11X5",STEEL	EACH	\$ -	27	\$0.00
050165	BOLT,FLAT HD,9/16"-12X4-3/4",GR.BS,STEEL	EACH	\$ -	1	\$0.00
050166	WASHER,FLAT,4-3/4" BOLT,RUBBER,1/2" T,7-1/2" OD	EACH	\$ 25.03	3	\$75.10
050167	NUT,LOCK,HEX,2"-8,STEEL/PLAIN	EACH	\$ 145.04	2	\$290.08
050169	RING,RETAINING,JOURNAL/ROLL,1"X4-7/8"X7"	EACH	\$ 1,012.70	1	\$1,012.70
050171	NUT,LOCK,HEX,4-1/2"-4,STEEL	EACH	\$ -	5	\$0.00
050174	BOLT,HEX HD,7/8"-9X3-3/4",STEEL	EACH	\$ -	1	\$0.00
050177	WASHER\LOCK.SPLIT SPRING HI COLLAR.1-1/8" BOLT.1/4" T.1	EACH	\$ 1.59	41	\$65.30
050180	BOLT,HEX SOC HD,1"-8X4-1/2",GR.8,STEEL	EACH	\$ -	1	\$0.00
050183	GASKET,PRECUT,VICTAULIC 31 GR.L,RUBBER,14"	EACH	\$ 249.33	4	\$997.32
050221	COUPLING,ADJUSTING	EACH	\$ -	3	\$0.00
050224	SEAT,VALVE,CHECK/BALL,3/8"X13/16",SS	EACH	\$ -	6	\$0.00
050228	VALVE,CHECK,BALL/ANGLE,1/2",FNPT	EACH	\$ -	1	\$0.00
050229	SEAT,VALVE,CHECK/BALL,7/16"X1-1/16",SS	EACH	\$ -	2	\$0.00
050230	SEAT,VALVE,CHECK/BALL,1/4"X1",SS	EACH	\$ -	4	\$0.00
050232	BONNET,VALVE,CHECK/BALL,1-3/8"X2-3/16"X2-3/16",STE	EACH	\$ -	2	\$0.00
050242	BEARING,SLEEVE,MARINE,1-1/4" BORE	EACH	\$ -	2	\$0.00
050245	COUPLING,DRIVE,JAW TYPE COMPLETE,1" BORE	EACH	\$ 20.64	4	\$82.56
050249	SCREEN,STRAINER,SEWAGE PUMP,3"X5-3/4"X6-1/4",STEEL	EACH	\$ -	1	\$0.00
050251	IMPELLER,PUMP	EACH	\$ 1,321.00	1	\$1,321.00
050252	FLOAT,SPHERICAL,SUMP PUMP/BOILER,6",SS	EACH	\$ 66.40	1	\$66.40

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050253	PLATE,FLOW,SHORT CONE SUCTION,1-3/4"X2"X9",STEEL	EACH	\$ -	3	\$0.00
050262	HUB\COUPLING.GRID.3/4" BORE.STEEL.1-7/8"X2-1/4".	EACH	\$ 40.93	1	\$40.93
050263	ARM,CONNECTING,1"X7/8"X7-7/8",STEEL	EACH	\$ 403.67	1	\$403.67
050264	HOUSING,GEAR,PUMP	EACH	\$ -	1	\$0.00
050265	BODY,VALVE,1/2"X2-3/8"X5-3/8",STEEL	EACH	\$ -	1	\$0.00
050266	ARM,CRANK,3/4"X1-3/8"X2-11/16",STEEL	EACH	\$ -	1	\$0.00
050267	HOUSING,PUMP	EACH	\$ -	1	\$0.00
050268	NUT,HEX,1-1/4"-12,STEEL	EACH	\$ -	2	\$0.00
050269	BLOCK,SLIDING,5/8"X1-1/4"X1-1/4"	EACH	\$ -	1	\$0.00
050271	BUSHING,CLOSED	EACH	\$ -	1	\$0.00
050272	BUSHING,OPEN	EACH	\$ -	1	\$0.00
050273	GASKET,PRECUT,PAPER,2-1/2"X3-3/8"	EACH	\$ -	2	\$0.00
050276	PLUNGER,SHAFT,PUMP,3/4"X7-1/4",STEEL/CERAMIC	EACH	\$ -	1	\$0.00
050297	IMPELLER\PUMP...4-3/4".BRONZE.REF #3.	EACH	\$ 1,136.00	1	\$1,136.00
050301	GASKET	EACH	\$ -	2	\$0.00
050305	SEAL,SHAFT,COLLAR,3/4"X7/8"X3/32"	EACH	\$ 3.40	2	\$6.80
050422	SWITCH,TEMP,0-225 DEG F,480 VAC,15 A	EACH	\$ 207.90	1	\$207.90
050551	ELBOW,PIPE,90 DEG,2-1/2",SW,A105,3000 LBS	EACH	\$ 33.66	5	\$168.30
050552	ELBOW,PIPE,45 DEG,1/2",SW,A105,3000 LBS	EACH	\$ 3.38	1	\$3.38
050556	ELBOW,PIPE,45 DEG,3/4",SW,F22,6000 LBS	EACH	\$ 30.73	1	\$30.73
050568	ELBOW,PIPE,90 DEG LONG RAD,4",BW,A234,SCH 80	EACH	\$ 36.65	2	\$73.30
050650	BALL,GRINDING,PULVERIZER/HOLLOW,9-7/8",VAM-20	EACH	\$ 288.92	6	\$1,733.52
050651	BALL,GRINDING,PULVERIZER/HOLLOW,9-1/4",VAM-20	EACH	\$ 574.09	1	\$574.09
050652	BALL,GRINDING,PULVERIZER/HOLLOW,8-1/2",VAM-20	EACH	\$ 291.10	5	\$1,455.50
050675	BEARING,SLEEVE,1.7500" BORE,SS	EACH	\$ -	2	\$0.00
050676	BEARING,BALL,SGL ROW OPEN,1" BORE	EACH	\$ -	3	\$0.00
050687	BEARING,BALL,SGL ROW OPEN,.9842" BORE	EACH	\$ 126.56	2	\$253.12
050697	BEARING,BALL,SGL ROW 2 SEALS,1.9685" BORE	EACH	\$ 54.83	2	\$109.66
050700	BEARING,BALL,SGL ROW OPEN,5.5118" BORE	EACH	\$ 446.39	4	\$1,785.54
050713	BEARING\SLEEVE,.5-1/2" BORE.7-1/4" OD.5-1/2" W..STEEL..	EACH	\$ -	1	\$0.00
050715	BEARING,BALL,SGL ROW OPEN,80MM BORE,170MM OD,39MM	EACH	\$ 120.34	7	\$842.40
050757	LINK,CHAIN,STEEL	EACH	\$ -	3	\$0.00
051111	COMPOUND,JOINT,ALINCO VISCOSITY 37 MM,1 GAL CAN	CAN	\$ 77.99	2	\$155.98
051128	STUD,MILLED,4-1/2"-8X29-1/2",STEEL	EACH	\$ -	1	\$0.00
051131	STUD,MILLED,4"-8X30-1/4",STEEL	EACH	\$ -	1	\$0.00
051446	BEARING,PILLOW BLOCK,2 BOLT TYPE SCM,1-15/16"SHAFT	EACH	\$ 93.46	1	\$93.46
051509	THERMOWELL,SS,1/2"FNPT,1" MNPT,6"L	EACH	\$ 157.00	1	\$157.00
051510	TRANSMITTR,TEMP,0-1200 DEGF,4-20 MA OUT	EACH	\$ -	1	\$0.00
051632	BELLOWS,SS	EACH	\$ -	1	\$0.00
051633	RING,SEAL,SHAFT,7/16"X1-7/16"X2",CERAMIC/BUNA-N	EACH	\$ -	1	\$0.00
051637	DISC,VALVE,GATE/ROTARY,6"	EACH	\$ -	4	\$0.00
051638	GATE,SLIDE,ROTARY,8"ID,CARBON STEEL	EACH	\$ -	1	\$0.00
051643	SHAFT,GATE,1-9/16"X12-1/2",STEEL	EACH	\$ -	1	\$0.00
051644	LEVER,GATE,1-1/2"X3-1/16"X5-9/16",STEEL	EACH	\$ -	2	\$0.00
051645	NUT,HEX,6"-12X1-1/2"X6-5/8",STEEL	EACH	\$ 685.35	2	\$1,370.70
051658	PIN,CLEVIS,3/8"X2-1/4",STEEL	EACH	\$ -	2	\$0.00
051663	GUIDE,LEAF,SLIDE GATE,8",STEEL	EACH	\$ -	2	\$0.00
051664	NUT,LOCK,1-1/8"-12,SS	EACH	\$ -	2	\$0.00
051665	TUBE,THRU,ASH LINE,1/2"X3/4"X2",BRASS	EACH	\$ -	14	\$0.00
051672	SPRING,FLAT,GATE/SLIDE,STEEL	EACH	\$ -	2	\$0.00
051673	BLOCK,SLIDING,HOPPER DOOR,1-3/4"X3-1/2"X3-1/2"	EACH	\$ -	1	\$0.00
051693	GASKET,PRECUT,FLANGE/CYLINDER,NEOPRENE,1/2"X2-3/8"	EACH	\$ -	6	\$0.00
051758	TRANSISTOR,NPN,140 V,600 MA	EACH	\$ -	1	\$0.00
051769	RESISTOR,WIREWOUND,1K OHM,3W,1% TOL	EACH	\$ -	15	\$0.00

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INN	Description	UOM	Unit Cost	Qty	Write-off value
051771	RESISTOR,WIREWOUND,500 OHM,3W,.05% TOL	EACH	\$ -	2	\$0.00
051848	RING,RETAINING,BEARING/RADIAL,1/16"X11-3/8"X12-1/4	EACH	\$ 78.00	4	\$312.00
051850	SHIM,STEEL,1/64"X13-3/4"X17-3/16"	EACH	\$ -	14	\$0.00
051851	SEAL,SHAFT,OIL,8-1/4"X10-1/2"X1"	EACH	\$ 217.00	1	\$217.00
051856	NUT\LOCK.GUARD BEARING.2"-8..STEEL...	EACH	\$ 601.24	1	\$601.24
051857	BUSHING,BOLT,ADJUSTING/SPRING	EACH	\$ 943.00	1	\$943.00
051859	KEY,MACHINE,1/2"X1/2"X5-1/2",STEEL	EACH	\$ -	3	\$0.00
051860	RING,RETAINING,JOURNAL/ROLL,1/8"X3-1/2"X3-15/16"	EACH	\$ -	2	\$0.00
052038	SEAL,SHAFT,OIL,1-3/8"X2-7/8"X5/16"	EACH	\$ 2.13	3	\$6.38
052086	RING,RETAINING,1/16"X1-13/16"X2-1/16"	EACH	\$ -	5	\$0.00
052087	WASHER,FLAT,SEALING,3/4" BOLT,TEFLON,1-7/8" OD	EACH	\$ -	10	\$0.00
052088	WASHER,FLAT,3/4" BOLT,STEEL,1/16" T,1-1/4" OD	EACH	\$ -	2	\$0.00
052089	PIN,DOWEL,5/8"X2-3/4",STEEL	EACH	\$ -	3	\$0.00
052125	PAWL,GUIDE BAR	EACH	\$ 482.25	2	\$964.49
052248	SEAL,OIL,REF#308	EACH	\$ 47.50	2	\$95.00
052260	HUB,COUPLING,GRID,3/4" BORE,STEEL	EACH	\$ -	7	\$0.00
052298	COUPLING\DRIVE,GRID TYPE.5/8" BORE....	EACH	\$ 30.25	3	\$90.75
052300	HUB,COUPLING,5/8" BORE,STEEL,1-7/8"X2-1/4"	EACH	\$ 57.25	1	\$57.25
052301	SHAFT,FAN,1-1/2"X15-1/4",STEEL	EACH	\$ -	2	\$0.00
052303	RING,THRUST	EACH	\$ 61.00	8	\$488.00
052305	SEAL,SHAFT,OIL,7/8"X1-3/4"X1/4"	EACH	\$ 2.21	1	\$2.21
052306	SEAL,SHAFT,2-3/16"X3-3/8"X4-1/8"	EACH	\$ -	1	\$0.00
052307	GASKET,PRECUT,FAN,COMPOSITION,.006"X4-3/8"X5-1/8"	EACH	\$ -	1	\$0.00
052309	RING,RETAINING,1/16"X2-5/16"X2-3/4"	EACH	\$ -	1	\$0.00
052310	SEAL,SHAFT,OIL,4-7/16"X5-1/2"X1/2"	EACH	\$ -	2	\$0.00
052311	GUIDE,SCOOP SLIDE,1"X1"X2-1/2",BRONZE	EACH	\$ -	12	\$0.00
052313	KEY,MACHINE,5/16"X5/16"X4-1/2",SS	EACH	\$ -	4	\$0.00
052315	PLATE,THRUST,BEARING,4.4375 BORE,BRONZE	EACH	\$ 198.00	7	\$1,386.00
052317	O-RING,NITRILE/BUNA,DASH #274,10"X10-1/4"X1/8"	EACH	\$ 0.62	87	\$54.27
052319	O-RING,NITRILE/BUNA,DASH #452,10-1/2"X11"X1/4"	EACH	\$ 1.13	5	\$5.65
052320	GASKET,PRECUT,STEEL/BUNA-N,1/32"X5/16"X11/16"	EACH	\$ -	4	\$0.00
052322	GEAR,DRIVEN CW,LUBE PUMP	EACH	\$ -	1	\$0.00
052323	GEAR,DRIVEN CCW,LUBE PUMP	EACH	\$ -	3	\$0.00
052324	GEAR,DRIVEN,LUBE PUMP	EACH	\$ -	1	\$0.00
052327	PLATE,BACK,SHAFT,3/4"X2-1/2"X3-7/8",STEEL	EACH	\$ -	1	\$0.00
052328	GASKET,PRECUT,COPPER/RUBBER,1/16"X2-3/8"X3-1/8"	EACH	\$ -	1	\$0.00
052358	GASKET,PRECUT,SEAT,STEEL/FIBER,3/32"X5-1/2"X5-13/1	EACH	\$ 5.88	1	\$5.88
052619	BELT,V,COG TYPE,1/2"X62"	EACH	\$ 4.31	1	\$4.31
052620	BELT,V,1/2"X47"	EACH	\$ 4.07	3	\$12.20
052710	SPROCKET,CHAIN,TYPE B1/QD,2-1/8" BORE,14-5/8" OD	EACH	\$ 316.00	1	\$316.00
052712	BODY,VALVE,1-1/4"X7-1/2",STEEL,FLANGED	EACH	\$ -	1	\$0.00
052713	RING,SPACER,7/8"X4"X7-3/8",STEEL	EACH	\$ 191.00	1	\$191.00
052714	RING,SPACER,7/8"X5-1/4"X8",STEEL	EACH	\$ -	2	\$0.00
052715	GASKET,PRECUT,COVER/VACUUM BREAKER,RUBBER,5/16"X	EACH	\$ -	4	\$0.00
052716	CAP.END,CYLINDER,2-3/4"X2-3/4"X12-1/4",STEEL	EACH	\$ -	2	\$0.00
052717	SEAL,SHAFT,OIL,2-3/4"X3-1/2"X1/4"	EACH	\$ 7.15	6	\$42.90
052718	GLAND,PACKING,CYLINDER,1-5/8"X2-3/4"X5-1/8",BRONZE	EACH	\$ -	2	\$0.00
052720	CUP,CYLINDER,PNEUMATIC,3/4"X5-1/4"X8"	EACH	\$ 24.10	8	\$192.80
052722	CLEVIS,ROD END,STEEL,3/4" EYE	EACH	\$ 66.70	1	\$66.70
052725	CUP,CYLINDER,PNEUMATIC,9/16"X2-11/16"X4"	EACH	\$ -	2	\$0.00
052733	NOZZLE,WATER JET,BOILER SEAL TROUGH,5/8",BRONZE	EACH	\$ -	12	\$0.00
052734	NOZZLE,WATER JET,11/16",SS	EACH	\$ 35.40	1	\$35.40
052737	NOZZLE,WATER JET,1-11/16"X3-3/4",STEEL	EACH	\$ 242.00	1	\$242.00
052739	PIN,CLEVIS,1/2"X1-7/16",STEEL	EACH	\$ -	1	\$0.00

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INN	Description	UOM	Unit Cost	Qty	Write-off value
052741	NOZZLE,WATER JET,PUMP,1",BRASS	EACH	\$ -	9	\$0.00
052743	FLANGE,PIPE,THREADED REDUCING,1-1/4"X3"X4",STEEL	EACH	\$ -	1	\$0.00
052744	HOSE,~,ASH SYSTEM,STEEL WIRE/RUBBER,2"X34-1/4",375	EACH	\$ -	5	\$0.00
052769	GASKET,PRECUT,DOOR,NEOPRENE,1/4"X17-3/4"X19-1/4"	EACH	\$ 13.75	2	\$27.50
052778	LINKAGE,ACTUATOR,HOPPER,5/8"X3-1/8",BRONZE,11 TPI	EACH	\$ 168.00	1	\$168.00
052779	SEAL,SHAFT,5/8"X1-3/4"X3"	EACH	\$ 37.93	4	\$151.73
052780	HOSE,WATER,NOZZLE SUPPLY,SS/STEEL/RUBBER,2" X 24",MN	EACH	\$ 78.88	1	\$78.88
052819	ARM,PEN,RECORDER,1/4"X3-5/8",SS	EACH	\$ -	1	\$0.00
052841	PWR SUPPLY,REGULATED,RECORDER	EACH	\$ -	1	\$0.00
052864	COUPLING,DRIVE,7-3/16" BORE	EACH	\$ -	56	\$0.00
052865	COUPLING,DRIVE	EACH	\$ -	1	\$0.00
052910	GLASS,PORT,INSPECTION,1/4"X6",PYREX	EACH	\$ -	1	\$0.00
053043	GASKET,PRECUT,PAPER,1/16"X9-1/4"X16-3/4"	EACH	\$ -	3	\$0.00
053094	GASKET,BULK,VEGETABLE FIBER,1/64"X36"	LINEAR F	\$ 2.30	50	\$115.00
053178	CONTACT,SWITCH,MERCURY,3 A,480 V,1 POLE	EACH	\$ -	4	\$0.00
053190	SWITCH,LEVEL,230 VAC,3.7 A	EACH	\$ -	1	\$0.00
053256	RELAY,GENERAL PUR,120 VAC,4PDT	EACH	\$ 155.25	1	\$155.25
053259	COIL,CLOSING,RELAY,120 VAC	EACH	\$ -	3	\$0.00
053260	COIL,CLOSING,RELAY,120 VAC	EACH	\$ -	2	\$0.00
053261	RELAY,GENERAL PUR,120 VAC,DPDT	EACH	\$ -	2	\$0.00
053267	RELAY,GENERAL PUR,120 VAC,DPDT	EACH	\$ -	2	\$0.00
053411	COLLAR,SHAFT,LOCKING	EACH	\$ -	4	\$0.00
053413	SCREW,HEX SOC HD,SET,5/8"-11X1-1/4",STEEL,PLAIN	EACH	\$ -	1	\$0.00
053417	BOLT,FLAT HD,BUCKET TOOTH,9/16"-12X1-1/4",STEEL	EACH	\$ -	3	\$0.00
053418	PIN,DOWEL,1-1/8"X4-1/8",STEEL	EACH	\$ -	17	\$0.00
053420	SHIM,STEEL,1/16"X2-5/16"X4"	EACH	\$ -	19	\$0.00
053421	SHIM,STEEL,1/4"X2-5/16"X4"	EACH	\$ -	27	\$0.00
053423	RING,SPACER,3/4"X1-1/2",STEEL	EACH	\$ -	6	\$0.00
053424	RING,SPACER,1/4"X3/4"X1-1/8",STEEL	EACH	\$ -	4	\$0.00
053425	RING,SPACER,3/4"X1-5/16",STEEL	EACH	\$ -	11	\$0.00
053426	PIN,DOWEL,2-7/16"X3-1/4",STEEL	EACH	\$ 173.70	4	\$694.80
053427	BOLT,EYE,MILL DOOR,STEEL	EACH	\$ 143.13	2	\$286.27
053434	SEAL,SHAFT,OIL,1-7/16"X2-1/4"X1/2"	EACH	\$ -	3	\$0.00
053441	BOLT,FLAT HD,COUPLING/SLOTTED,7/8"-14 X 6",GR.8,STEEL,P	EACH	\$ 163.84	14	\$2,293.76
053450	HOSE,WATER,BRASS/STEEL BRAIDED,1/4"X18"	EACH	\$ -	1	\$0.00
053452	GASKET,PRECUT,FELT,1/2"X2-1/4"X3"	EACH	\$ -	15	\$0.00
053453	TUBE,PILOT,MILL,5/16"X1/2"X8",SS	EACH	\$ -	12	\$0.00
053455	GATE,PYRITE,SWINGING RELIEF	EACH	\$ 761.00	2	\$1,522.00
053456	BLADE,SCRAPER,FEEDER TABLE/CCW LH STR. STEEL	EACH	\$ 500.21	1	\$500.21
053457	SHAFT,FEEDER,3/4"X13-1/4",STEEL	EACH	\$ -	2	\$0.00
053458	SHAFT,GATE,BURNER,11/16"X15",STEEL	EACH	\$ -	2	\$0.00
053460	BOLT,HEX SOC HD,1-1/8"-7X4",GR.8,STEEL,PLAIN	EACH	\$ 18.89	16	\$302.22
053461	BOLT,FLAT HD,RECTANGULAR,5/8"-11 X 3",GR.5,STEEL	EACH	\$ 24.00	6	\$144.00
053466	BLADE,SCRAPER,FEEDER TABLE/CW RH CVD.,STEEL	EACH	\$ 648.26	1	\$648.26
053467	BLADE,SCRAPER,FEEDER TABLE/CCW LH CVD. , STEEL	EACH	\$ 693.70	1	\$693.70
053468	NUT,HEX,4-3/4"-6,STEEL	EACH	\$ -	2	\$0.00
053470	CLAMP,PIPE,5-3/8",SS	EACH	\$ -	6	\$0.00
053471	ASSEMBLY,SPRING SOCKET,FOR 1-1/2" SPRING BW300 FORE&	EACH	\$ 256.00	8	\$2,048.00
053473	ASSEMBLY,SEAT AND GASKET,FOR EL-64,1"X12"X17",STEEL/	EACH	\$ 259.44	4	\$1,037.76
053474	RING,SPACER,5/16"X16"X17-5/8",STEEL	EACH	\$ -	4	\$0.00
053478	BUSHING\COUPLING..2".URETHANE.FOR 5S COUPLING	EACH	\$ 97.18	14	\$1,360.52
053479	DOOR,ACCESS,STEEL	EACH	\$ -	1	\$0.00
053482	TIP,NOZZLE,3/8"X6"X11"X11-7/8",STEEL	EACH	\$ -	2	\$0.00
053486	RING,OIL,T SECTION,6-3/4"X7-5/8"X5/8",BRASS	EACH	\$ 60.25	1	\$60.25

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053545	NOZZLE,WATER JET,7/16"X1-3/4",SS	EACH	\$ 50.54	11	\$555.99
053556	NOZZLE\WATER JET.HYDROVEYOR.5/8"X1-3/4"X2-3/8".SS	EACH	\$ 61.01	10	\$610.12
053557	PIN,YOKE,1/2"X2-3/4",SS	EACH	\$ 3.80	6	\$22.80
053608	BOLT,FLAT HD,COUPLING/SLOTTED,3/8"-16X2"	EACH	\$ -	30	\$0.00
053654	RING,SEAL,GLAND,1-1/2"X6-7/8"X9-9/16",SS	EACH	\$ -	1	\$0.00
053659	GLAND,PACKING,PUMP,2"X3"X3-15/16".BRONZE	EACH	\$ 1,355.00	1	\$1,355.00
053670	PLATE,MOUNTING,SPACER,1-1/2"X7-9/16"X38",SS	EACH	\$ -	1	\$0.00
053671	YOKE,COUPLING,DRIVE SHAFT,2-1/8"X4-1/2"X9-3/4",STE	EACH	\$ -	1	\$0.00
053674	SET,GASKET,RUBBER/CORK/PAPER	EACH	\$ -	1	\$0.00
053675	RING,SPACER,STEEL	EACH	\$ -	1	\$0.00
053677	SHIM,SS,SLOTTED/.010"-.020",4"X6"	EACH	\$ -	19	\$0.00
053678	SLEEVE,SPACING,5/8"X7/8"X1-7/16",SS	EACH	\$ -	6	\$0.00
053688	SEAL,SHAFT,OIL,2-1/4"X3-1/8"X3/8"	EACH	\$ 4.98	3	\$14.94
053693	WASHER,LOCK,BRG RET NUT,W-13,STEEL	EACH	\$ -	3	\$0.00
053695	RING,SPACER,STEEL	EACH	\$ -	1	\$0.00
053696	SEAL,SHAFT,OIL,13/16"X1-1/2"X3/8"	EACH	\$ -	8	\$0.00
053699	RING,ALIGNING,BRONZE,3-7/8"X9-3/8"X14-1/4"	EACH	\$ -	4	\$0.00
053700	IMPELLER,PUMP,HPSW,12-3/4",BRONZE	EACH	\$ -	2	\$0.00
053701	COUPLING,DRIVE,SLEEVE TYPE,2-15/16" BORE	EACH	\$ -	2	\$0.00
053747	PLATE,~,BURNER GATE/TWO SLOT,3/4"X2-1/8"X15-1/4",S	EACH	\$ -	1	\$0.00
053748	GASKET,PRECUT,PLATE/BURNER GATE,RUBBER,1/8"X2-1/8"	EACH	\$ -	1	\$0.00
053749	GASKET,PRECUT,PLATE/BURNER GATE,RUBBER,3/16"X1-1/2"	EACH	\$ -	9	\$0.00
053750	PLATE,~,BURNER GATE/ONE SLOT,3/4"X3-3/8"X17",STEEL	EACH	\$ -	1	\$0.00
053751	PIN,HINGE,LINKAGE/BURNER,7/8"X1-5/8",SS	EACH	\$ -	9	\$0.00
053753	(OEM)ROLLER,CAM,STEEL	EACH	\$ -	18	\$0.00
053754	BUSHING,GUIDE,STEM/VALVE,1"X3-1/4"X3-3/4",BRONZE	EACH	\$ -	2	\$0.00
053755	PLATE,LOCK,LINKAGE/BURNER,1/4"X1-1/2"X2-1/2",STEEL	EACH	\$ -	15	\$0.00
053756	LINK,CONNECTING,BUCKET,1-1/4"X1=7/16"X5-1/8",STEEL	EACH	\$ -	10	\$0.00
053757	WASHER,FLAT,1-13/16" BOLT,BRONZE,1/8" T,2-3/8" OD	EACH	\$ -	2	\$0.00
053758	PIN,HINGE,LINKAGE/BURNER,3/16"X3/8"X3",BRONZE	EACH	\$ -	11	\$0.00
053790	RING,SPACER,SEAL,1/2"X3"X3-5/8",STEEL	EACH	\$ -	3	\$0.00
053799	ADAPTOR,SHAFT,VIBRATOR,3/4"X1-3/8"X5",STEEL	EACH	\$ -	1	\$0.00
053803	BOLT,HEX HD,5/8"-11X2",STEEL	EACH	\$ 11.60	4	\$46.40
053805	RING,SEAL,CAP/THRU WS,1-5/16"X5-1/16",STEEL	EACH	\$ -	1	\$0.00
053820	SEAL,DUST	EACH	\$ -	3	\$0.00
053833	VALVE,CHECK,LIFT,1",SS BODY,MNPT,SS DISC	EACH	\$ -	1	\$0.00
053835	VALVE,CHECK,LIFT,1/2",SS BODY,MNPT,SS	EACH	\$ 84.00	2	\$168.00
053853	HOSE,FIRE,FLAME RESISTANT,STEEL/FIBER/RUBBER,2"X37	EACH	\$ -	2	\$0.00
053944	CLAMP,PIPE,LEAK REPAIR,2-1/2",STEEL/RUBBER	EACH	\$ 33.20	2	\$66.40
053946	ELBOW,PIPE,90 DEG,2",SW,SS 316L,3000 LBS	EACH	\$ -	5	\$0.00
054268	PIN\TIP:NOZZLE:7/8"X2-1/4"	EACH	\$ -	10	\$0.00
054269	LINKAGE,CONTROL,UNIT 2 BURNER,1-7/8"X5-1/4",STEEL,	EACH	\$ -	1	\$0.00
054270	LINKAGE,CONTROL,1-1/2",STEEL	EACH	\$ -	2	\$0.00
054271	PIN,HINGE,LINKAGE,1"X3/4"X1-3/16",STEEL	EACH	\$ -	2	\$0.00
054272	LINKAGE,CONTROL,1"X1-1/4"X1-7/8",STEEL,PIN	EACH	\$ -	1	\$0.00
054273	SLEEVE,SHAFT,1-9/16"X2-1/8"X1-1/2",STEEL	EACH	\$ -	3	\$0.00
054274	ROLLER,CAM,3/4" ID,STEEL	EACH	\$ -	32	\$0.00
054276	COLLAR,THRUST,3/8"X1"X1-3/4"	EACH	\$ -	14	\$0.00
054283	HOSE,BURNER,SS 321/STEEL,1/2"X24"	EACH	\$ -	2	\$0.00
054414	POPPET,VALVE,RELIEF,REF#212C	EACH	\$ 25.36	4	\$101.43
054416	SPRING,VALVE/CHECK,REF#208B	EACH	\$ 4.28	4	\$17.12
054421	CUP,CYLINDER	EACH	\$ -	6	\$0.00
054422	GASKET,PRECUT,CORK,1/16"X2-5/16"X3-3/8"	EACH	\$ -	6	\$0.00
054424	TRANSFORMR,DRY,115 V PRI	EACH	\$ 93.10	1	\$93.10

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INN	Description	UOM	Unit Cost	Qty	Write-off value
054425	RING,BACKUP,SPIRAL,1/64"X1-1/8"X1-3/8",TEFLON	EACH	\$ -	33	\$0.00
054432	BEARING\SLEEVE..2-5/16" BORE.2-7/8" OD.5/8" W..BRASS..	EACH	\$ 8.25	2	\$16.50
054433	DISC,VALVE,CHECK,1",SS	EACH	\$ -	1	\$0.00
054435	GASKET,PRECUT,VITON,1/32"X3"X3-1/4"	EACH	\$ -	1	\$0.00
054436	BEARING,ROLLER,TAPERED,.7500" BORE	EACH	\$ 33.00	2	\$66.00
054437	CUP,SPRING,3/8"X1"X2"	EACH	\$ -	1	\$0.00
054438	GUIDE,BALL,1-1/8"X1-7/16"X1-5/8",SS	EACH	\$ -	2	\$0.00
054439	SEAL,SHAFT,OIL:2-1/8"X2-7/8"X1/4":STYLE HM14:STEEL/NITRI	EACH	\$ -	2	\$0.00
054440	ROD,CONNECTING,3/4"X6-1/8",STEEL/ALU	EACH	\$ -	2	\$0.00
054441	GASKET,PRECUT,TEFLON,1/64"X1-1/2"X1-5/8"	EACH	\$ -	10	\$0.00
054444	INSERT,THREADED,LOCKING,3/16"X7/32",TEFLON	EACH	\$ -	4	\$0.00
054445	SEAT,VALVE,1/2"X27/32"X1-5/32",SS	EACH	\$ -	1	\$0.00
054446	SEAT,VALVE,BALL,3/4"X1-5/8",SS	EACH	\$ -	2	\$0.00
054447	SEAT,VALVE,1/2"X13/16"X1-3/8",SS	EACH	\$ -	1	\$0.00
054449	BALL,VALVE,CHECK,1-1/8",SS	EACH	\$ -	2	\$0.00
054450	PLUNGER,SHAFT,CONTROL,2-3/8"X7-1/8",SS	EACH	\$ -	1	\$0.00
054451	DIAPHRAGM,TEFLON/RUBBE,1-1/8"X7-7/16"	EACH	\$ -	1	\$0.00
054453	SET,GEAR,WORM,6 TEETH	EACH	\$ -	2	\$0.00
054455	SEAL,PISTON,V-CUP,3-5/8"X3-15/16"X3/8"	EACH	\$ -	5	\$0.00
054511	BEARING\PILLOW BLOCK.SLEEVOIL TYPE R.4-7/16" SHAFT....I	EACH	\$ 4,026.53	1	\$4,026.53
054659	RTD,~,1/4" OD,15" L,SS	EACH	\$ 78.30	1	\$78.30
054661	THERMOWELL,STEEL,25-3/4"L	EACH	\$ -	1	\$0.00
054815	WASHER,FLAT,1-1/16" BOLT,RUBBER,1/2" T,2" OD	EACH	\$ -	4	\$0.00
054833	PLATE,THRUST,FLUID DRIVE,1-1/4"X3-1/2"X9-3/16",STE	EACH	\$ -	1	\$0.00
054835	VANE,DIVERTER,FAN,3/32"X7-5/8"X11",SS	EACH	\$ -	46	\$0.00
054836	SHOE,THRUST BRG,6/SET,STEEL,1-5/16"X2-1/8"X3-5/8"	SET	\$ -	1	\$0.00
054838	DRUM\BALANCE:::	EACH	\$ 5,500.00	1	\$5,500.00
054839	SLEEVE,SHAFT,REF#8	EACH	\$ 474.69	6	\$2,848.15
054840	BUSHING,SLEEVE,TUBE/SCOOP,1-3/8"X1-9/16"X1",BRONZE	EACH	\$ -	4	\$0.00
055125	VALVE,CHECK,LIFT,5",CAST STEEL BODY,CLAMP CONN	EACH	\$ 437.00	1	\$437.00
055170	KIT,REPAIR,CYLINDER/PNEUMATIC 6"	EACH	\$ -	2	\$0.00
055417	CIRCUIT BD,CONTROLLER,H2 ANALOG	EACH	\$ -	3	\$0.00
055418	CIRCUIT BD,OUTPUT,C.A.T.	EACH	\$ -	1	\$0.00
055419	CIRCUIT BD,CONTROLLER,PROCESSOR	EACH	\$ 213.00	1	\$213.00
055420	CIRCUIT BD,MOTHER	EACH	\$ 86.00	1	\$86.00
055423	CIRCUIT BD,PROCESSOR,MULTI PEN	EACH	\$ 508.00	1	\$508.00
055424	MOTOR,DC,12 V	EACH	\$ -	3	\$0.00
055429	ARM,PEN,RECORDER/GREEN,3/8"X5-1/2",STEEL/PLASTIC	EACH	\$ -	2	\$0.00
055430	CIRCUIT BD,DRIVE,MULTI PEN MOTOR	EACH	\$ -	1	\$0.00
055431	CIRCUIT BD,POWER SUPPLY	EACH	\$ -	1	\$0.00
055436	CELL,CONDUCTIVITY,15/16"X8-1/4",PLASTIC	EACH	\$ 328.00	1	\$328.00
055437	CELL,CONDUCTIVITY,15/16"X8-1/4",PLASTIC	EACH	\$ 328.00	1	\$328.00
055438	CELL,CONDUCTIVITY,TEMP COMPENSATED,15/16"X8-1/4",P	EACH	\$ -	2	\$0.00
055440	CELL,CONDUCTIVITY,FLOW THROUGH PROBE,1"X8-1/2",GLA	EACH	\$ 131.25	1	\$131.25
055500	ACTUATOR\ELECTRIC.ROTARY POSITIONER-FLANGE MOUNT	EACH	\$ 3,500.00	1	\$3,500.00
055512	CAPACITOR,ELECTROLYTIC,2 MFD,370 V	EACH	\$ -	1	\$0.00
055513	RESISTOR,WIREWOUND,750 OHM,25W,1% TOL	EACH	\$ -	1	\$0.00
055514	KIT,SWITCH,ACTUATOR/ELECTRIC,8 PCS	EACH	\$ -	1	\$0.00
055515	SET,GASKET,ACTUATOR/ELECTRIC,4 PCS	EACH	\$ -	1	\$0.00
055516	DRIVER,HEX,BALL END,7/64"X3"	EACH	\$ -	1	\$0.00
055539	SHIELD,GAUGE GLASS,17",MICA	EACH	\$ 38.92	1	\$38.92
055546	GLASS,LEVEL GAUGE ,SIZE 17,TRANSPARENT	EACH	\$ 200.40	6	\$1,202.40
055547	GASKET,PRECUT,GAUGE GLASS,COMPOSITION,17"	EACH	\$ 4.80	12	\$57.60
055555	GASKET,PRECUT,GAUGE GLASS,COMPOSITION,12-1/2"	EACH	\$ -	30	\$0.00

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INN	Description	UOM	Unit Cost	Qty	Write-off value
055563	BOLT,FLAT HD,SLOTTED,1/4"-20X1-1/4",SS 304/18-8	EACH	\$ -	44	\$0.00
055688	TUBE,COLLIMATOR,FLAME SCANNER	EACH	\$ -	11	\$0.00
055708	PACKING,BULK,5/16",GRAPHITE	EACH	\$ -	1	\$0.00
055723	DIAPHRAGM,NEOPRENE,VALVE/CONTROL 1/2",1/4"X1-3/4"X	EACH	\$ -	4	\$0.00
055729	DIAPHRAGM,TEFLON FACED,VALVE/CONTROL 1"	EACH	\$ 205.25	3	\$615.75
055730	DIAPHRAGM,TEFLON,VALVE/CONTROL 1",1/8"X2-13/16"X3"	EACH	\$ -	5	\$0.00
055731	DIAPHRAGM,TEFLON,VALVE/CONTROL 1":1/4"X2-3/4"X2-5/8":	EACH	\$ 84.41	9	\$759.72
055732	DIAPHRAGM,NEOPRENE,VALVE/CONTROL 1-1/4",1/4"X3-7/8	EACH	\$ -	1	\$0.00
055733	DIAPHRAGM,TEFLON,VALVE/CONTROL 1-1/2",1/4"X3-1/2"X	EACH	\$ -	8	\$0.00
055735	DIAPHRAGM,HYPALON,VALVE/CONTROL 1-1/2",7/32"X3-5/8	EACH	\$ -	2	\$0.00
055736	DIAPHRAGM,NEOPRENE,VALVE/CONTROL 1-1/2",7/32"X3-3/	EACH	\$ -	7	\$0.00
055737	DIAPHRAGM,HYPALON,VALVE/CONTROL 2",1/4"X4-3/16"X4-	EACH	\$ -	11	\$0.00
055740	DIAPHRAGM,NEOPRENE,VALVE/CONTROL 2",9/32"X4-13/16"	EACH	\$ -	9	\$0.00
055741	DIAPHRAGM,NEOPRENE,VALVE/CONTROL 2-1/2",9/32"X5-1/	EACH	\$ -	1	\$0.00
055753	ROD,WELDING,E8018-B2L,1/8"	POUND	\$ 3.73	130	\$484.74
055771	ROD,WELDING,CRONACAST 211,1/8",NICKEL	POUND	\$ 50.26	20	\$1,005.20
055776	ROD,WELDING,E308-16,3/32",SS	POUND	\$ 7.08	50	\$354.00
055794	ROD,WELDING,CRONACAST 211,3/32"	POUND	\$ 85.49	15	\$1,282.32
055803	WIRE,WELDING,ER705-3,.035"	POUND	\$ 1.96	33	\$64.68
055824	ROD\FILLER.ER90SB3 CERTIFIED FLAGGED.3/32".COPPER COA	POUND	\$ 4.23	10	\$42.25
055853	SEAL,SHAFT,OIL,1-1/4"X2-1/16"X7/16"	EACH	\$ -	1	\$0.00
055854	NUT,SHAFT SLEEVE,STEEL	EACH	\$ -	1	\$0.00
055855	DEFLECTOR	EACH	\$ 1,100.00	1	\$1,100.00
055856	GEAR,WORM,4 TEETH,2-1/2" BORE,4-5/8" OD	EACH	\$ 1,729.00	1	\$1,729.00
055858	NUT,SHAFT,STEEL	EACH	\$ -	1	\$0.00
055863	RING,ALIGNING,CAGE,STEEL	EACH	\$ -	5	\$0.00
055865	BOLT,HEX SOC HD,3/4"-16X1-3/4",STEEL	EACH	\$ -	23	\$0.00
055866	WASHER\LOCK.EXTERNAL TOOTH.3/4" BOLT.1/16" T.1-1/4" OD	EACH	\$ 17.59	15	\$263.91
055867	KEY,MACHINE,5/16"X5/8"X1",SS	EACH	\$ -	2	\$0.00
055871	NUT,SHAFT,STEEL	EACH	\$ 1,238.00	1	\$1,238.00
055872	NUT,SHAFT SLEEVE	EACH	\$ -	1	\$0.00
055873	GASKET,COVER TO TACH,PAPER,.015"X2"X4-15/16"	EACH	\$ -	1	\$0.00
055876	GEAR,HELICAL,PINION TYPE,72 TEETH,4-3/4" BORE	EACH	\$ -	1	\$0.00
055877	GEAR,HELICAL,PINION TYPE,18 TEETH,4" BORE,6-1/2" O	EACH	\$ -	2	\$0.00
055887	GEAR,SPUR,BEVELED/KEYED/CCW,55 TEETH,1-1/4" BORE	EACH	\$ -	1	\$0.00
055892	RING,RETAINING,DRUM/BALANCE,7/16"X3-1/8"X4-3/4"	EACH	\$ -	13	\$0.00
055893	O-RING,TEFLON,DASH #340,3-3/8"X3-3/4"X3/16"	EACH	\$ 55.00	1	\$55.00
055894	KEY,MACHINE,3/8"X5/8"X1",STEEL	EACH	\$ -	2	\$0.00
055895	COLLAR,THRUST,4CHTA-10 PUMP,REF#28	EACH	\$ 1,503.03	1	\$1,503.03
055897	NUT,SHAFT SLEEVE,INBOARD,SS	EACH	\$ -	1	\$0.00
055899	COUPLING,DRIVE,1/2" BORE	EACH	\$ 33.30	2	\$66.60
055901	GLAND,PACKING,PUMP/SPLIT,1-1/4"X4-1/4"X5-1/8",STEE	EACH	\$ -	4	\$0.00
055902	BUSHING,SLEEVE,3-1/4"X4-3/4"X2-15/16"	EACH	\$ -	2	\$0.00
055904	SEAL,SHAFT,OIL,1/2"X1-1/2"X5/16"	EACH	\$ 3.99	2	\$7.98
055907	SLEEVE,SHAFT	EACH	\$ 1,171.50	2	\$2,343.00
055912	DIAPHRAGM,LEAD,1/32"X32-3/8"	EACH	\$ 303.00	1	\$303.00
055929	BOLT,PRESSURE SPRING,2-3/4"X47",SA193B16 MATERIAL	EACH	\$ 314.46	1	\$314.46
055971	GASKET,PRE CUT,NUVALASTIC,STEEL/RUBBER,9/16"X6-1/2"	EACH	\$ -	13	\$0.00
055974	GASKET,PRE CUT,NUVALASTIC,STEEL/RUBBER,1/2"X8-3/4"X	EACH	\$ -	2	\$0.00
055977	GASKET,PRE CUT,NUVALASTIC,STEEL/RUBBER,9/16"X9-3/4"	EACH	\$ -	1	\$0.00
055994	GASKET,PRE CUT,NEOPRENE,9/16"X11-5/8"X15",RECTANGUL	EACH	\$ 43.70	1	\$43.70
056009	GASKET,PRE CUT,RUBBER,3/8"X1-7/8"X63"	EACH	\$ 43.56	2	\$87.12
056011	COLLAR,SHAFT,UPPER/AIR HEATER,1-1/2"X3-15/16"X4-11	EACH	\$ -	1	\$0.00
056012	CLUTCH,FRICITION,AIR HEATER,3/4"X2-3/4"X3-1/2"	EACH	\$ -	2	\$0.00

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056014	GEAR,HELICAL,80 TEETH,1-9/16" BORE,9-1/4" OD	EACH	\$ -	1	\$0.00
056015	BEARING,ROLLER,SPH SELF ALIGN,2.5590" BORE	EACH	\$ -	1	\$0.00
056016	GEAR,HELICAL,80 TEETH,1-7/8" BORE,14-1/4" OD	EACH	\$ -	1	\$0.00
056018	GEAR,HELICAL,PINION TYPE,92 TEETH,1-9/16" BORE	EACH	\$ -	1	\$0.00
056019	GEAR,HELICAL,INTERMDIATE,111 TEETH,1-7/16" BORE	EACH	\$ -	2	\$0.00
056020	GEAR,WORM,15 TEETH,2-1/4" OD	EACH	\$ 906.00	1	\$906.00
056022	SHAFT,REDUCER,INTERMEDIATE,1-5/8"X8-1/2",STEEL	EACH	\$ -	1	\$0.00
056023	GEAR,WORM,PINION TYPE,19 TEETH,1-1/8" BORE,2-3/8"	EACH	\$ -	1	\$0.00
056024	SHAFT,REDUCER,3/4"X3-13/16",STEEL	EACH	\$ 365.00	1	\$365.00
056026	BEARING,BALL,SGL ROW OPEN MAX,1.1811" BORE	EACH	\$ 23.19	1	\$23.19
056028	BEARING,SLEEVE,1" BORE,1.3125" OD,.6875" W	EACH	\$ -	1	\$0.00
056029	BEARING,BALL,SGL ROW 2 SHIELDS W/RING ,1.5748"BORE	EACH	\$ -	1	\$0.00
056030	BEARING,ROLLER,SGL ROW CYL ASSY,.7874" BORE	EACH	\$ -	1	\$0.00
056031	RING,EXTENSION,COLLAR/L.S. SHAFT,STEEL	EACH	\$ -	1	\$0.00
056037	BEARING,ROLLER,SGL ROW CYL W/INNER RACE,2.3440"BOR	EACH	\$ -	1	\$0.00
056040	BEARING,ROLLER,SGL ROW CYL W/INNER RACE,3.9370"BOR	EACH	\$ -	2	\$0.00
056041	SEAL,SHAFT,OIL,4-1/8"X4-7/8"X3/8"	EACH	\$ -	1	\$0.00
056042	SEAL,SHAFT,OIL,4-3/8"X5-3/4"X7/16"	EACH	\$ -	1	\$0.00
056043	SEAL,SHAFT,3-3/8"X4-3/4"X1/2"	EACH	\$ -	2	\$0.00
056045	GEAR,~,PINION TYPE/HIGH SPEED,19 TEETH,15/16" BORE	EACH	\$ -	1	\$0.00
056046	SHAFT,GEAR,INTEGRAL,1-5/8"X8-5/8",STEEL	EACH	\$ -	1	\$0.00
056047	RING,SPACER	EACH	\$ -	1	\$0.00
056048	BEARING,ROLLER,SGL ROW CYL,.7874" BORE	EACH	\$ 37.29	1	\$37.29
056050	BUSHING,COUPLING,GRID TYPE,1.125" BORE	EACH	\$ 44.99	1	\$44.99
056051	COVER\HUB:COUPLING:ALU	EACH	\$ 38.00	2	\$76.00
056052	RING,SPACER,2-9/16"X3"X4-1/2",STEEL	EACH	\$ -	1	\$0.00
056053	PIN,HINGE,3/4"X11-3/4",STEEL	EACH	\$ -	2	\$0.00
056059	BEARING,THRUST,BALL/SGL DIRECTION,.4724" BORE	EACH	\$ -	1	\$0.00
056060	WASHER,LOCK,BRG RET NUT,W-01,STEEL	EACH	\$ -	3	\$0.00
056061	NUT,LOCK,BEARING,N-01,STEEL	EACH	\$ 0.68	1	\$0.68
056062	BLADE,ROTOR,AIR MOTOR,1/8"X9/16"X2-1/2",FIBER	EACH	\$ -	2	\$0.00
056063	BRACKET,MOTOR,AIR DRIVE,3/8"X7/16"X1-3/16"	EACH	\$ -	1	\$0.00
056064	BEARING,BALL,SINGLE ROW SEALED,WITH GROOVE FOR SN	EACH	\$ -	1	\$0.00
056065	BEARING,ROLLER,SGL ROW CYL,1.3779" BORE	EACH	\$ -	1	\$0.00
056066	BEARING,BALL,SGL ROW 2 SEALS,1.1811" BORE	EACH	\$ 28.81	1	\$28.81
056068	BEARING,BALL,SGL ROW 1 SHIELD MAX,3.5433" BORE	EACH	\$ -	1	\$0.00
056200	BELT,V,1/2"X39"	EACH	\$ 3.51	2	\$7.01
056262	SEAT,VALVE,SAFETY,4"X4-1/2",SS	EACH	\$ -	1	\$0.00
056287	DISC,VALVE,SAFETY RELIEF,STEEL	EACH	\$ 975.98	3	\$2,927.93
056557	GASKET\PRE CUT:SEAT/VALVE:COPPER:1/16"X3-5/8"X4"::CIRC	EACH	\$ 3.87	21	\$81.37
056562	GATE,SLIDE,ROTARY ASSY,6"IDX17-1/2"ODX4"W,DURITE	EACH	\$ 2,047.00	1	\$2,047.00
056601	GASKET,PRE CUT,HEAD/2ND STAGE,COMPOSITION	EACH	\$ 68.77	2	\$137.53
056604	VALVE,CHANNEL,INLET/2ND STAGE,STEEL	EACH	\$ -	8	\$0.00
056605	VALVE,CHANNEL,DISCHARGE/2ND STAGE,STEEL	EACH	\$ 223.26	4	\$893.04
056607	VALVE,CHANNEL,INLET/1ST STAGE,STEEL	EACH	\$ 620.80	2	\$1,241.60
056608	VALVE,CHANNEL,DISCHARGE/1ST STAGE,STEEL	EACH	\$ 620.80	4	\$2,483.20
056610	RING,SEAL,3/4"X4-1/2"X5-1/2",STEEL	EACH	\$ -	1	\$0.00
056611	BOLT,HEX HD,3/4"-10X5-1/2",STEEL	EACH	\$ -	2	\$0.00
056612	BOLT,HEX HD,1"-10X6-3/4",STEEL	EACH	\$ -	2	\$0.00
056613	BOLT,HEX HD,3/4"-10X6",STEEL	EACH	\$ -	2	\$0.00
056615	UNLOADER,VALVE,1ST STAGE	EACH	\$ -	1	\$0.00
056617	PLATE,STOP,INLET VALVE	EACH	\$ -	5	\$0.00
056620	SCREW,FILLISTER HD,3RD STAGE UNLOADER,#10-24X1", SS 3	EACH	\$ -	4	\$0.00
056621	BOLT,FLAT HD,SLOTTED,1/4"-20X1",SS 316	EACH	\$ -	24	\$0.00

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056675	IMPELLER,PUMP,B HTR DRAIN,CENTRIFUGAL,2-1/8",BRONZ	EACH	\$ -	1	\$0.00
056679	SEAT,SPRING,PRESSURE	EACH	\$ 613.53	1	\$613.53
056722	JOINT,EXPANSION,SPOOL TYPE,12" PIPE,CHLOROBUTYL,FLAN	EACH	\$ 394.17	2	\$788.33
056734	DIAPHRAGM,HYPALON,VALVE/CONTROL 3",5/16"X6-1/4"X7-	EACH	\$ -	4	\$0.00
056737	KIT,REPAIR,VALVE/SOLENOID	EACH	\$ 23.40	1	\$23.40
056738	KIT,REPAIR,VALVE/SOLENOID	EACH	\$ 30.70	1	\$30.70
056811	KIT,REPAIR,VALVE/CONTROL 1/2"	EACH	\$ -	2	\$0.00
057281	NUT,HEX,11/16"-10,STEEL	EACH	\$ -	6	\$0.00
057283	SLEEVE,SHAFT,3-1/4"X4-1/8"X4",.STEEL	EACH	\$ -	1	\$0.00
057285	SLINGER,OIL,3/8"X4-1/2"X4-3/4",.BRONZE	EACH	\$ -	2	\$0.00
057286	SLEEVE,SHAFT,PUMP,4-3/8"X5-1/8"X1-1/4",STEEL	EACH	\$ 494.00	2	\$988.00
057287	RING,SEAL,SEAT,5/16"X1-7/16"X1-9/16",STEEL	EACH	\$ -	1	\$0.00
057288	RING,SEAL,VALVE/CHECK/6"	EACH	\$ -	3	\$0.00
057367	MOTOR,AC,440 V,100 HP,1770 RPM,3 PH,444US	EACH	\$ 5,734.00	1	\$5,734.00
057397	VALVE,CHANNEL,INLET,STEEL	EACH	\$ 1,260.27	1	\$1,260.27
057420	NOZZLE,SOOTBLOWER,AIR PREHEATER 50 DEG,7/16",STEEL	EACH	\$ -	6	\$0.00
057422	NOZZLE,SOOTBLOWER,AIR PREHEATER 50 DEG,3/8",STEEL	EACH	\$ -	28	\$0.00
057443	GASKET,PRECUT,DOOR/PYRITE,ASBESTOS,7-3/8"X10-3/4"	EACH	\$ -	2	\$0.00
057447	GASKET,PRECUT,1/4"X6"X7-1/2",CIRCULAR	EACH	\$ 3.87	4	\$15.49
057522	REGULATOR .PRESSURE,0-50 PSI OUT,1" FNPT,300 PSI	EACH	\$ 97.80	2	\$195.60
057524	KIT,REPAIR,REGULATOR	EACH	\$ 12.39	1	\$12.39
057586	DIAPHRAGM,NEOPRENE,1/16"X17"	EACH	\$ -	1	\$0.00
057591	KIT,REPAIR,VALVE/CONTROL	EACH	\$ -	1	\$0.00
057592	STEM,VALVE,PLUG,1/2"X18",.SS	EACH	\$ 1,052.00	1	\$1,052.00
057593	SEAT,VALVE,9/16"X2-1/8",.SS	EACH	\$ 593.00	1	\$593.00
057594	GASKET,PRECUT,PAPER,1/32"X1-7/32"X1-21/32"	EACH	\$ 119.00	3	\$357.00
057595	GASKET,PRECUT,STEEL,1/32"X2-5/16"X2-15/16"	EACH	\$ 94.00	1	\$94.00
057606	GASKET,PRECUT,SILICONE,1-3/4"X2-3/4"	EACH	\$ 5.75	14	\$80.52
057685	RELAY,GENERAL PUR,125 VDC,SPST	EACH	\$ 151.36	4	\$605.44
057687	RELAY,GENERAL PUR,125 VDC,SPST	EACH	\$ -	6	\$0.00
057696	DIAPHRAGM,NEOPRENE,1/16"X4-3/8"X6-3/4"	EACH	\$ 12.24	4	\$48.96
057697	GASKET,PRECUT,CORK,1/32"X3-1/4"X5-3/4"	EACH	\$ -	7	\$0.00
057698	GASKET,PRECUT,PAPER,1/32"X3-3/8"X5-7/8"	EACH	\$ -	1	\$0.00
057702	GASKET,PRECUT,PAPER,1/32"X3-1/4"X5-3/4"	EACH	\$ -	4	\$0.00
057704	SPRING,COIL,VALVE/RELAY,STEEL	EACH	\$ -	4	\$0.00
057705	SEAT,VALVE,11/16"X1",STEEL	EACH	\$ 85.50	13	\$1,111.50
057706	SHIM,BRASS,.010"X7/8"X1-1/4"	EACH	\$ -	5	\$0.00
057707	BALL,VALVE,RELAY,5/8",STEEL	EACH	\$ -	4	\$0.00
057709	PLUNGER,SHAFT,CONTROL,1"X1-1/4",STEEL/ALU	EACH	\$ -	2	\$0.00
057710	PLUNGER,SHAFT,ACTUATOR,1-1/8"X1-1/4",STEEL/ALU	EACH	\$ -	2	\$0.00
057711	SEAT,VALVE,STEEL	EACH	\$ 157.00	1	\$157.00
057712	PLUNGER,SHAFT,VALVE/RELAY,1/2"X1"X1-3/4",STEEL	EACH	\$ -	6	\$0.00
057713	BODY,VALVE,RELAY,2"X3-3/8"X5-3/4"	EACH	\$ -	1	\$0.00
057732	DIAPHRAGM,NEOPRENE,1/16"X3-3/8X3-3/8"	EACH	\$ -	3	\$0.00
057765	YOKE,CYLINDER.CONNECTING.ASH SYSTEM.5/8"X3-1/4".STEEL	EACH	\$ 10.70	1	\$10.70
057814	PIN,CLEVIS,1/2"X1-3/8",STEEL	EACH	\$ 2.40	26	\$62.32
057839	PIN,DOWEL,1/2"X2-3/4",STEEL	EACH	\$ -	5	\$0.00
057940	VALVE,PETCOCK,1/8",.SS BODY,MNPT	EACH	\$ 11.63	15	\$174.38
057954	BOLT,FILLISTER HD,1/4"-20X1-5/8",.SS	EACH	\$ -	4	\$0.00
057956	PIN,DOWEL,1/8"X5/8",.SS	EACH	\$ -	34	\$0.00
057958	RETAINER,VALVE,1ST STAGE,5/8"X2-3/4"	EACH	\$ 49.70	8	\$397.60
057959	PIN,DOWEL,1/8"X1/2",.SS	EACH	\$ -	9	\$0.00
057961	RING,PISTON,UNLOADER 3RD STAGE,1/16"X1-5/8"X1-3/4"	EACH	\$ 7.68	4	\$30.72
057963	GUIDE,VALVE,1ST STG,3/8"X1/2"X4-7/8",STEEL	EACH	\$ -	7	\$0.00

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INN	Description	UOM	Unit Cost	Qty	Write-off value
057965	PISTON,CYLINDER,PNEUMATIC,3/4"X1-1/4"X1-3/4",ALU	EACH	\$ 363.87	1	\$363.87
057967	GUIDE,VALVE,INLET/2ND STG,3/8"X1/2"X2-1/2",STEEL	EACH	\$ -	12	\$0.00
057968	SPRING,COIL,VALVE/3D STG UNLOADER,STEEL	EACH	\$ -	2	\$0.00
057969	KIT,REPAIR,VALVE/CHANNEL	SET	\$ -	11	\$0.00
057970	RETAINER,VALVE,3RD STAGE,1/2"X2-1/2",STEEL	EACH	\$ 88.69	4	\$354.75
057973	SET,SPRING & CHANNEL,2ND STAGE VALVE	EACH	\$ -	20	\$0.00
057974	FOLLOWER,PACKING,STEEL,3/8"X1-1/4"X2-1/8"	EACH	\$ 65.44	4	\$261.76
057975	SET,SPRING & CHANNEL,1ST STAGE VALVE	EACH	\$ -	17	\$0.00
057976	PLATE,STOP,DISCHARGE VALVE	EACH	\$ -	1	\$0.00
057978	GASKET,PRECUT,VALVE/CHECK,CORK,1/4"X2-3/4"X3-1/8"	EACH	\$ -	2	\$0.00
057979	GASKET,PRECUT,VALVE/CHECK,FIBER,1/64"X2-3/4"X3-1/8"	EACH	\$ -	1	\$0.00
057984	FOLLOWER,PACKING,STEEL,(6/SET),3/8"X1-1/4"X2-1/8"	EACH	\$ 361.99	12	\$4,343.84
057985	PISTON,UNLOADER,1-3/8"X3"X4-1/4",BRONZE	EACH	\$ -	4	\$0.00
057986	RING,PISTON,UNLOADER 1ST STAGE,1/4"X3-3/4"X4-1/4"	EACH	\$ -	22	\$0.00
057987	SPRING,COIL,VALVE/1ST STG UNLOADER,STEEL	EACH	\$ -	20	\$0.00
057990	GASKET,3RD STAGE VALVE SEAT	EACH	\$ 6.78	21	\$142.46
057992	PIN,DOWEL,1/16"X3/8",STEEL	EACH	\$ -	9	\$0.00
058000	GUIDE,VALVE,DISCHARGE/3RD STG,1/4"X2-1/2",STEEL	EACH	\$ -	14	\$0.00
058002	NUT,LOCK,1-1/4"-8,SS	EACH	\$ -	2	\$0.00
058004	RING,PISTON,1/4"X7-1/2"X8",STEEL	EACH	\$ 50.70	1	\$50.70
058006	PLUNGER,UNLOADER,1ST STAGE	EACH	\$ -	5	\$0.00
058009	RING,PISTON,3RD STAGE,1/4"X3-3/4"X4-1/4",STEEL	EACH	\$ 87.78	4	\$351.12
058010	RETAINER,VALVE,COMPRESSOR,3/4"X1-1/2"	EACH	\$ -	12	\$0.00
058011	RETAINER,VALVE,COMPRESSOR,3/4"X1-1/4",STEEL	EACH	\$ -	9	\$0.00
058015	RING/PISTON:1ST STAGE:1/2"X12-1/4"X13-1/2":STEEL::	EACH	\$ 118.20	4	\$472.80
058017	GASKET,PRECUT,LEAD,5/16"X7/8"X1-3/8"	EACH	\$ -	4	\$0.00
058019	GASKET,PRECUT,LEAD,1/4"X1"X1-1/2"	EACH	\$ -	6	\$0.00
058020	CRAB,UNLOADER	EACH	\$ 117.42	2	\$234.83
058022	PLUNGER,UNLOADER,2ND STAGE	EACH	\$ -	7	\$0.00
058023	GASKET,PRECUT,HEAD/3RD STAGE,COMPOSITION	EACH	\$ 32.63	5	\$163.16
058028	CAGE,VALVE,SOOTBLOWER AIR COMPRESSOR,3"X6-3/8"X6-3/8"	EACH	\$ -	1	\$0.00
058116	SEAT,VALVE,7/16"X7/8",BRASS/NEOPRENE	EACH	\$ -	4	\$0.00
058123	DIAPHRAGM,NEOPRENE,1/16"X3-3/8"X3-3/8"	EACH	\$ -	2	\$0.00
058124	DIAPHRAGM,NEOPRENE,1/32"X5/16"X3-3/8"X3-3/8"	EACH	\$ -	1	\$0.00
058127	BELLOWS,STEEL,1"X3-1/4"X2-5/8"	EACH	\$ -	1	\$0.00
058157	DIAPHRAGM,RUBBER,3/8"X3/4"X13-1/8"	EACH	\$ 581.25	2	\$1,162.50
058195	GASKET,PRECUT,15-15/16" ID X 18-7/16" ID X 9/16",FLANGE,1/16"	EACH	\$ 312.00	3	\$936.00
058259	SET,GASKET,VALVE/GLOBE 4",SS-316/ABS,4 PCS	EACH	\$ -	5	\$0.00
058266	GASKET,PRECUT,RELAY,SILICONE,1/64"X1"X3-1/2"X6"	EACH	\$ 12.54	3	\$37.61
058274	NOZZLE,CONTROLLER,PNEUMATIC,STEEL	EACH	\$ -	5	\$0.00
058283	DIAPHRAGM,DACRON	EACH	\$ 268.00	3	\$804.00
058308	TACHOMETER,SPEED,0-10 VAC/0-1000 RPM	EACH	\$ -	1	\$0.00
058325	PIN,STOP,TRAVEL,2-1/8",SS	EACH	\$ 11.85	1	\$11.85
058342	RETAINER,VALVE,2ND STAGE,5/8"X3-1/2",BRONZE	EACH	\$ -	1	\$0.00
058363	PIN,WRIST,3-1/4"X8-3/4",SS	EACH	\$ -	1	\$0.00
058366	UNLOADER,VALVE,3RD STAGE INLET,STEEL	EACH	\$ 1,377.31	1	\$1,377.31
058553	CABLE,INSTRUMENT,14/C	EACH	\$ -	4	\$0.00
058556	DIAPHRAGM,LEAD,1/32"X27-1/2"	EACH	\$ 296.68	2	\$593.36
058756	DIAPHRAGM	EACH	\$ 10.74	5	\$53.70
058762	WASHER,FLAT,5/8" BOLT,STEEL,3/32" T,11/16" OD	EACH	\$ -	3	\$0.00
058786	ASSEMBLY,CABLE,O2 ANALYZER,20",7/C	EACH	\$ 417.00	3	\$1,251.00
058950	BEARING,SLEEVE,5" BORE	EACH	\$ -	1	\$0.00
058951	BEARING,SLEEVE,6" BORE	EACH	\$ -	1	\$0.00
058952	BEARING\SLEEVE.....STEEL/BABBIT..	EACH	\$ -	1	\$0.00

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INN	Description	UOM	Unit Cost	Qty	Write-off value
058995	DIAPHRAGM,TEFLON,1/32"X3-1/4"	EACH	\$ -	9	\$0.00
059068	GASKET,FLANGE/OIL LINE,1/32"X3-1/2"X7",CIRCULAR	EACH	\$ -	2	\$0.00
059069	GASKET,SPIRAL WOUND,3" PIPE,STYLE CG,3/4/600 PSI	EACH	\$ -	3	\$0.00
059071	GASKET,SPIRAL WOUND,2" PIPE,STYLE CG,3/4/600 PSI	EACH	\$ -	1	\$0.00
059072	GASKET,SPIRAL WOUND,2" PIPE,STYLE CG,3/4/600 PSI	EACH	\$ -	1	\$0.00
059073	GASKET,SPIRAL WOUND,1-1/4" PIPE,STYLE CG,3/4/600	EACH	\$ -	1	\$0.00
059075	FITTING,GREASE,BUTTON HEAD (GIANT),7/8"MNPT	EACH	\$ -	13	\$0.00
059076	WASHER,LOCK,5/8" BOLT,1/32" T,1-7/8" OD	EACH	\$ -	89	\$0.00
059078	GASKET,SPIRAL WOUND,3/4" PIPE,STYLE CG,3/4/600 PSI	EACH	\$ -	1	\$0.00
059083	SWITCH,LEVEL,FLOAT TYPE	EACH	\$ -	1	\$0.00
059084	GASKET,PRECUT,3/32"X3-1/2"X4-3/8"	EACH	\$ -	9	\$0.00
059085	GASKET,PRECUT,ASBESTOS,3/32"X3"X3-7/8"	EACH	\$ -	4	\$0.00
059086	GASKET,PRECUT,ASBESTOS,1/32"X2-1/2"X3-1/2"	EACH	\$ -	2	\$0.00
059087	GASKET,PRECUT,1/32"X7/8"X15/16"	EACH	\$ -	6	\$0.00
059088	GASKET,PRECUT,1/32"X5/8"X2-1/8"	EACH	\$ -	1	\$0.00
059089	GASKET,PRECUT,1/32"X1/2"X1-5/16"	EACH	\$ -	2	\$0.00
059090	GASKET,PRECUT,1/32"X1/2"X1-1/4"	EACH	\$ -	8	\$0.00
059091	GASKET,PRECUT,3/64"X3/8"X1-3/8"	EACH	\$ -	6	\$0.00
059092	GASKET,PRECUT,1/64"X3/8"X1-3/8"	EACH	\$ -	1	\$0.00
059093	GASKET,PRECUT,1/64"X9/16"X2-1/8"	EACH	\$ -	2	\$0.00
059094	GASKET,PRECUT,1/32"X1"X1-7/8"	EACH	\$ -	1	\$0.00
059095	GASKET,PRECUT,1/32"X3/8"X1-1/4"	EACH	\$ -	3	\$0.00
059096	GASKET,PRECUT,1/32"X3/8"X1-1/4"	EACH	\$ -	1	\$0.00
059097	GASKET,PRECUT,1/64"X5/16"X1-3/8"	EACH	\$ -	3	\$0.00
059099	RESISTOR,WIREWOUND,3K OHM	EACH	\$ -	6	\$0.00
059100	BOLT,ROUND HD,HEX SOCKET,3/8"-24X7/8",STEEL	EACH	\$ 7.41	43	\$318.52
059102	BLOCK,INSULATING,WINDING WEDGE,FIBERGLASS	EACH	\$ -	1	\$0.00
059103	CAP,TUBE,VENT,5/8"X2-3/8"X4-1/8",FIBERGLASS	EACH	\$ -	1	\$0.00
059105	WASHER,PANT LEG,3/8" BOLT,1/16" T,STEEL	EACH	\$ -	1	\$0.00
059109	WASHER,PANT LEG,3/4" BOLT,1/16" T,BRASS	EACH	\$ -	2	\$0.00
059110	WASHER,INSULATING,MICARTA,5/8" BOLT	EACH	\$ -	1	\$0.00
059111	WASHER,FLAT,5/8" BOLT,STEEL,3/8" T,1-3/8" OD	EACH	\$ -	4	\$0.00
059112	WASHER,FLAT,1" BOLT,STEEL,1/8" T,2-1/2" OD	EACH	\$ -	9	\$0.00
059113	GASKET	EACH	\$ 22.79	8	\$182.36
059114	GASKET,PRECUT,RUBBER,1/4"X1-3/4"X2-7/8"	EACH	\$ -	14	\$0.00
059115	GASKET,PRECUT,RUBBER,1/4"X11/16"X1"	EACH	\$ -	13	\$0.00
059116	SLEEVE,LOCKING	EACH	\$ -	10	\$0.00
059118	PLUG~.5/8"X1"X2".BLACK RUBBER.	EACH	\$ 21.00	4	\$84.00
061012	ARM,PEN,RECORDER/VIOLET,5-1/16",STEEL/PLASTIC	EACH	\$ -	1	\$0.00
061013	NOZZLE,BURNER,COAL TYPE,6"X11"X12",SS 309	EACH	\$ -	5	\$0.00
061024	GEAR,HELICAL,80 TEETH,3-3/8" BORE,10-1/4" OD	EACH	\$ -	1	\$0.00
061039	GASKET,PRECUT,CAGE,1/32"X1/4"X3-11/16"	EACH	\$ 61.37	1	\$61.37
061057	ASSEMBLY,SPRING BOLT ,EL-64 PULVERIZER	EACH	\$ 166.85	5	\$834.24
061059	RETAINER,A36 W/ALEMITE A1186AND SOCKET SET SCREW C	EACH	\$ -	1	\$0.00
061060	NUT,SPRING BOLT,BRONZE	EACH	\$ 260.00	3	\$780.00
061081	DISC,VALVE,SAFETY RELIEF,2-1/2",STEEL	EACH	\$ 933.07	2	\$1,866.13
061082	DISC,VALVE,SAFETY RELIEF,2-1/2",STEEL	EACH	\$ -	1	\$0.00
061088	GASKET,PRECUT,STEEL/SILVER,2-3/32"X2-19/32"	EACH	\$ 25.68	2	\$51.37
061095	RELAY,TIMING,.1 SEC TO 10 HRS,120 VAC/24 VDC	EACH	\$ 60.99	2	\$121.98
061104	GASKET,COVER/MANHOLE,1/4" X 1" X 11" X15",OVAL SHAPE,	EACH	\$ 5.41	2	\$10.82
061112	PIPE,WELDED,10",SS 304,SCH 40	FOOT		0.5	\$0.00
061128	SWITCH,TOGGLE,125 VAC,20 A,SPST	EACH	\$ 7.39	3	\$22.17
061130	SWITCH,TOGGLE,10 A,DPDT	EACH	\$ 7.63	1	\$7.63
061144	RELAY,ALARM,125 VDC,11 PIN	EACH	\$ 380.57	2	\$761.14

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INN	Description	UOM	Unit Cost	Qty	Write-off value
061145	HOUSING,BEARING,SHAFT/PINION	EACH		1	\$0.00
061240	KIT,REPAIR,PUMP	EACH	\$ 53.00	3	\$159.00
061301	GASKET,PRECUT,VICTAULIC 77,NEOPRENE,12"	EACH	\$ -	24	\$0.00
061307	GASKET,BULK,FELT GRADE F-7,3/4"X72"	FOOT	\$ 121.00	6	\$726.00
061370	POSITIONER,PNEUMATIC	EACH	\$ 252.00	1	\$252.00
061383	SEAL,MECHANICAL,#11 SHAFT 1-3/8"	EACH	\$ 700.20	1	\$700.20
061394	INSULATOR,~,ACB BUSS,2000 A	EACH	\$ -	1	\$0.00
061397	INSULATOR,~,ACB BUSS,1200 A	EACH	\$ -	3	\$0.00
061398	SHAFT,GEAR,DRIVEN,1"X13-5/16",STEEL	EACH	\$ -	1	\$0.00
061399	SHAFT,PUMP,1"X6-1/2",STEEL	EACH	\$ -	1	\$0.00
061400	BEARING,ROLLER,SGL ROW CYL,.9842" BORE	EACH	\$ -	3	\$0.00
061401	SEAL,SHAFT	EACH	\$ -	1	\$0.00
061422	SLEEVE,PACKING,TYPE LS A-C PUMP S/N 68891 & 92	EACH	\$ -	4	\$0.00
061433	RELAY,OVERLOAD	EACH	\$ -	1	\$0.00
061444	PACKING	SET	\$ -	3	\$0.00
061470	TRANSMITTR,LEVEL,0-150" H2O,4-20 MA OUT	EACH	\$ -	1	\$0.00
061498	CONVERTER/P/I. 3-27 PSI IN.4-20 MA OUT	EACH	\$ 342.00	1	\$342.00
061508	BUSHING,SLEEVE,LINK,2"X2-1/4"X1/8",STEEL	EACH	\$ -	4	\$0.00
061514	NOZZLE,INDICATOR,1/8"X3/8"X1",BRASS	EACH	\$ -	2	\$0.00
061518	PISTON,GOVERNOR,3/4"X2-1/4",STEEL	EACH	\$ -	1	\$0.00
061533	NUT,LOCK,HEX,2-1/2",SS	EACH	\$ 417.50	1	\$417.50
061535	STUD,MILLED,2-1/4"-8X15-1/4",STEEL	EACH	\$ -	1	\$0.00
061536	BUSHING,SLEEVE,SUPPORT/TRIP VALVE,1"X1-1/4"X1-1/2"	EACH	\$ -	2	\$0.00
061541	BEARING\SLEEVE..1-1/2" BORE.2-3/8" OD.3-3/4" W.4" L.STEEL/B	EACH	\$ -	4	\$0.00
061542	GASKET,PRECUT,VALVE/THROTTLE,COMPOSITION,1/32"X3-3	EACH	\$ -	18	\$0.00
061545	SLEEVE,SHAFT,PUMP,4.900",STEEL	EACH	\$ -	1	\$0.00
061549	PIN,~,VALVE,1.49"X4-1/2",STEEL	EACH	\$ -	1	\$0.00
061557	THERMOCOUP,TYPE J,3/8" OD,8" L,SS,1/4" NPT	EACH	\$ -	3	\$0.00
061618	NUT,EXTENSION,1-1/4"-8X2-3/8",STEEL	EACH	\$ -	1	\$0.00
061628	CONNECTOR,BUSS,BRACKET INSULATED	EACH	\$ -	2	\$0.00
061630	BUSHING,SLEEVE,SERVOMOTOR,2-1/2"X3-1/4",BRASS	EACH	\$ -	1	\$0.00
061674	RING,IMPELLER	EACH	\$ -	1	\$0.00
061675	RING,CASING	EACH	\$ -	1	\$0.00
061676	NUT,HEX,6-5/16"-8,BRASS	EACH	\$ -	2	\$0.00
061696	MODULE,INPUT,ANALOG/12 BIT	EACH	\$ 1,021.54	3	\$3,064.62
061722	RING,IMPELLER	EACH	\$ -	2	\$0.00
061780	SEAT,VALVE,6-7/8"X8-1/2",SS	EACH	\$ 1,770.10	1	\$1,770.10
061784	RING,CASING,#CV3,REF#6	EACH	\$ 1,539.00	2	\$3,078.00
061786	BEARING,BALL,SGL ROW OPEN ANGULAR CONT,1.5748" BOR	EACH	\$ 186.27	2	\$372.54
061788	SLEEVE,INTERMEDIATE,REF#57	EACH	\$ 2,606.00	1	\$2,606.00
061789	RING,IMPELLER	EACH	\$ -	1	\$0.00
061794	BUSHING,STUFFING BOX,REF#88	EACH	\$ 1,138.00	1	\$1,138.00
061795	RING,CHANNEL,REF#60	EACH	\$ 1,672.00	1	\$1,672.00
061799	RING,OIL,REF#31A	EACH	\$ -	1	\$0.00
061800	SLEEVE,JOURNAL	EACH	\$ -	1	\$0.00
061806	NUT,LOCK,BEARING,N-08,STEEL	EACH	\$ -	5	\$0.00
061842	FLOAT,SPHERICAL,2-1/2",SS	EACH	\$ 11.94	3	\$35.82
061855	FILTER,OIL,HYDRAULIC,4-3/4"X5-1/2",STEEL/RUBBER	EACH	\$ 7.07	1	\$7.07
061900	MOTOR,AC,208/230/460 V,3450 RPM,3 PH	EACH	\$ 336.34	1	\$336.34
061953	TRANSMITTR,TEMP,PROGRAMMABLE,400-1200 DEGF,4-20 MA	EACH	\$ 435.00	1	\$435.00
061956	O-RING,NEOPRENE,DASH #425,4-1/2"X5"X1/4"	EACH	\$ 0.30	92	\$27.33
062014	NUT,LOCK,BEARING,AN-24,STEEL	EACH	\$ 6.39	2	\$12.78
062039	SLEEVE,SHAFT	EACH	\$ 2,786.00	1	\$2,786.00
063246	GLASS,TUBE,GAUGE LEVEL,5/8" OD X 37" L,CLEAR W/RED LIN	EACH	\$ 80.00	3	\$240.00

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INN	Description	UOM	Unit Cost	Qty	Write-off value
063299	PACKING,BULK,3/8",GRAPHITE	POUND	\$ 48.00	5	\$240.00
063433	GASKET\PRECUT::MONEL:32-5/8"X33-5/8"::CIRCULAR::	EACH	\$ 380.62	1	\$380.62
064218	GASKET,PRECUT,STEEL/GRAPHITE,3/32"X1"X1-5/8"	EACH	\$ 9.93	4	\$39.72
064339	GASKET,VICTAULIC 75/77/78,RUBBER,4" PIPE	EACH	\$ 20.21	10	\$202.10
064931	SWITCH,PRESS,DIFF,1 TO 20 PSI,1/4"FNPT,600 VAC,5 A	EACH	\$ 226.44	3	\$679.32
065492	ELBOW,PIPE,45 DEG LONG RAD,2",BW,A234,SCH 40	EACH	\$ -	3	\$0.00
067062	WEARBACK,ELBOW,6" 45 DEG,DURITE	EACH	\$ 370.50	1	\$370.50
067096	SPOOL,PIPE,4"X12",DURITE	EACH	\$ 232.00	2	\$464.00
067258	TEE,PIPE,6",FLGD,DURITE	EACH	\$ 426.00	1	\$426.00
067318	FLANGE\PIPE.WELD NECK.RAISED FACE.1/2".150 LBS.A105..SC	EACH	\$ 12.13	2	\$24.26
067362	INSULATOR\PORCELAIN.3"WX30"L.	EACH	\$ 385.00	5	\$1,925.00
067971	VALVE,SOLENOID,3 WAY,120 VAC,1/2" FNPT,BRASS, 10-125#	EACH	\$ 240.00	1	\$240.00
068167	RING,WEDGE,4 SEGMENT EL-64 BOTTOM GRINDING RING	SET	\$ 1,925.00	2	\$3,850.00
069200	GEAR\SPUR.DRIVEN\OIL PUMP.55 TEETH.1-1/2" BORE.5-1/4" OI	EACH	\$ 926.62	1	\$926.62
069201	SHAFT,PULVERIZER,EL-64 MAIN,REF#1	EACH	\$ -	1	\$0.00
069216	SEAL,VAPOR,4-1/2"X5-1/2"X5/8"	EACH	\$ 210.40	4	\$841.60
069219	PLATE,THRUST,FAN/ID,1-1/2"X3-1/4"X9",STEEL	EACH	\$ 666.67	2	\$1,333.33
069220	SEAL,DUST,4-3/8"X7"X7/8"	EACH	\$ 210.40	1	\$210.40
069225	SHOE,THRUST BRG,FLUID DRIVE	EACH	\$ 314.00	12	\$3,768.00
069226	COLLAR,THRUST,BRG/SPLIT,4-7/16"	EACH	\$ 115.95	1	\$115.95
069229	GUIDE,ROD	EACH	\$ 108.80	4	\$435.20
069232	BEARING\SLLEEVE.SPLIT.4-1/2" BORE.5-7/16" OD.3-1/8" W..BRO	EACH	\$ 384.12	4	\$1,536.50
069253	GEAR,DRIVEN CCW,LUBE PUMP	EACH		1	\$0.00
069283	GEAR,SPUR.PINION TYPE,12 TEETH	EACH	\$ 165.64	1	\$165.64
069289	SPROCKET,CHAIN,3/4" BORE,2-1/8" OD,12 TOOTH	EACH	\$ 64.28	2	\$128.57
069299	RING,SCRAPER,TEFLON	EACH	\$ 14.23	5	\$71.15
069788	GEAR\PINION...	EACH	\$ 539.00	1	\$539.00
069792	PUMP\GEAR.OIL PUMP...SGL STAGE.LUBE OIL EL-64 PULVERI	EACH	\$ 3,633.70	1	\$3,633.70
069904	BUSHING,VALVE,DUMP,REF#21	EACH	\$ 290.00	1	\$290.00
070354	BEARING,BALL,SGL ROW OPEN,1.1811" BORE	EACH	\$ 4.45	1	\$4.45
070397	BEARING,BALL,SGL ROW 2 SEALS,9842" BORE	EACH	\$ 12.60	1	\$12.60
070461	BEARING,BALL,SGL ROW 2 SHIELDS,1.5748" BORE	EACH	\$ 16.83	1	\$16.83
070698	INSERT,COUPLING,JAWED LOVEJOY L110,NEOPRENE	EACH	\$ 10.33	1	\$10.33
071020	FOLLOWER,CAM,GUIDE BAR	EACH	\$ -	3	\$0.00
071647	CONE,BEARING,TAPERED,1.7500" BORE	EACH	\$ 34.82	1	\$34.82
071648	CUP,BEARING,TAPERED	EACH	\$ 137.64	1	\$137.64
072069	BEARING,BALL,SGL ROW OPEN,.7500" BORE	EACH		1	\$0.00
072169	UNION,PIPE,1/4",SW,A105,3000 LBS	EACH	\$ 6.13	7	\$42.91
072256	COUPLING,PIPE,1-1/4",FNPT,A105,3000 LBS	EACH	\$ -	3	\$0.00
072266	ELBOW,PIPE,90 DEG,1/2",SW,F22,3000 LBS	EACH	\$ 7.33	4	\$29.32
072431	GEAR\SPUR.KEYED.12 TEETH.3/4" BORE.2-1/4" OD.STEEL.150.	EACH	\$ 756.00	1	\$756.00
072432	WASHER\FLAT..3-1/8" BOLT.SS.1/64" T.3-3/4" OD...	EACH	\$ 16.25	1	\$16.25
072434	RING,PACKING,REF#304	EACH	\$ 210.00	1	\$210.00
072443	GEAR\SPIRAL.DRIVER.4 TEETH.2-1/2" BORE.3" OD..147.	EACH	\$ 3,178.00	1	\$3,178.00
072449	SHOE\THRUST BRG.KTB...47 & 190.INBOARD	EACH	\$ 166.25	6	\$997.50
072452	BUSHING\TOP.OIL PUMP.146.	EACH	\$ 441.00	1	\$441.00
072476	GEAR\SPIRAL.OIL PUMP.42 TEETH.3/4" BORE.5-1/2" OD...	EACH	\$ 1,909.00	1	\$1,909.00
072592	BOLT,EYE,FEEDER TABLE,1"-8 LH X 1-3/4",SS	EACH	\$ 37.08	7	\$259.56
073070	GROMMET,RUBBER,2-1/2"WX3/8"TX4-1/2"L	EACH	\$ 9.46	4	\$37.84
073182	TRANSFORMR,DRY,240/480 V PRI,120 V SEC,.500 KVA	EACH	\$ 198.00	1	\$198.00
073371	CAP,PIPE,3",FNPT,MI/BLACK IRON,SCH 40	EACH	\$ 12.66	3	\$37.98
074402	FILTER,OIL,MIST ELIMINATOR	EACH	\$ 161.30	1	\$161.30
075282	FLANGE\PIPE..RAISED FACE.4".150 LBS.A105.SW...STD. BORE	EACH	\$ 20.36	1	\$20.36
075287	FLANGE,PIPE,SLIP ON,RAISED FACE,4",150 LBS,A105,8 BOLT	EACH	\$ 12.49	2	\$24.98

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075549	VALVE,GLOBE,Y PATTERN,3/4",CLASS 600,A105 BODY,SW,600	EACH	\$ 276.58	1	\$276.58
077143	WASHER,PANT LEG,3/4" BOLT,1/16" T,5/8" LEG LENGTH,STEEL	EACH	\$ 0.39	4	\$1.58
0931119	CORD,FEMALE,3 POLE,6' LENGTH,USED ON BECK DRIVE POW	EACH	\$ 53.00	2	\$106.00
100067	MOTOR,AC,230/460 V,2 HP,1710 RPM,3 PH,145T	EACH	\$ 368.57	1	\$368.57
100224	GEAR\SPUR..12 TEETH.3/4" BORE.2-5/16" OD.BRONZE..	EACH	\$ 489.00	1	\$489.00
100225	NUT,SHAFT SLEEVE	EACH	\$ 774.50	1	\$774.50
100226	NUT,SHAFT SLEEVE	EACH	\$ 1,251.00	2	\$2,502.00
100227	NUT,SHAFT SLEEVE	EACH	\$ -	1	\$0.00
100232	GASKET\PRE CUT.HEAD/DISCHARGE.....	EACH	\$ 60.00	2	\$120.00
100238	GASKET\PRE CUT:COMPENSATOR:.....	EACH	\$ 167.83	1	\$167.83
100239	GASKET,STUFFING BOX TO BARREL	EACH	\$ 174.50	1	\$174.50
100240	GASKET\SPIRAL WOUND:....1/8"X10-1/8"X10-7/8":REF #2584:ST	EACH	\$ 60.50	1	\$60.50
100306	GASKET\PRE CUT:DISCHARGE HEAD TO BARREL::24-1/8"X25":	EACH	\$ 1,203.00	1	\$1,203.00
100307	GASKET\PRE CUT.SUCTION RING TO BARREL..18-1/2"X19-1/2"..	EACH	\$ 126.94	7	\$888.59
100436	SCREW\~:HEX SOCKET HEAD:1"-8X2-1/2":GR.WB410HT:....	EACH	\$ 66.40	6	\$398.40
100438	STUD\ALL THREAD..1-1/4"-8X6".STEEL.GR 8.STUFFING BOX	EACH	\$ -	6	\$0.00
100439	WASHER\FLAT..1" BOLT.STEEL.1/4" T.1-1/4" OD...	EACH	\$ -	19	\$0.00
100444	CEMENT,DRY,FINISHING,50 LB BAG	BAG	\$ 20.36	2	\$40.72
100450	RELAY,PNEUMATIC	EACH	\$ -	3	\$0.00
100730	SEAL,SHAFT	EACH	\$ -	1	\$0.00
100823	PROBE,CONDUCTIVITY,TEMP COMPENSATED,NICKEL,50 CEL	EACH	\$ 460.65	1	\$460.65
100869	BREAKER,225 A,600 VAC/250 VDC,2 POLE,KAL TYPE	EACH	\$ 731.71	1	\$731.71
100878	SET,SHIM,JOURNAL BRG. KEEPER	EACH	\$ 131.54	2	\$263.08
101104	NUT,SHAFT SLEEVE,REF#127	EACH	\$ -	1	\$0.00
101218	GASKET,PRE CUT,SHELL TO TUBE,CORRIGATED MONEL	EACH	\$ -	1	\$0.00
101220	GASKET,PRE CUT,CHANNEL TO COVER,MONEL CLAD,1/8" X 3/8"	EACH	\$ 1,062.00	1	\$1,062.00
101226	PREFILTER,AIR,3-3/4"X9-1/4"	EACH	\$ 299.01	2	\$598.02
101345	RELAY,GENERAL PUR,24 VDC,SPDT	EACH	\$ 23.46	2	\$46.92
101486	GASKET,PRE CUT,STEEL,6-5/16"X7-5/16"	EACH	\$ -	5	\$0.00
101487	GASKET,PRE CUT,STEEL,14-1/8"X16-1/4"	EACH	\$ -	2	\$0.00
101556	SCREW\~:HEX SOCKET HEAD:1-1/4"-8X3":GR.WB410HT:....	EACH	\$ 49.71	5	\$248.57
101695	COVER,VALVE,3RD STAGE DISCHARGE	EACH	\$ 457.60	2	\$915.20
101866	VALVE,GLOBE,T PATTERN,1",CLASS 1500,F22 BODY,SW, 3300	EACH	\$ 1,088.00	1	\$1,088.00
101916	VALVE,GLOBE,T PATTERN,1",CLASS 800,A105 BODY,SW, 1975	EACH	\$ 79.95	1	\$79.95
102033	COVER\GUAGE.Plate.15/16"X2".SS	EACH	\$ 145.90	3	\$437.70
102309	DIAPHRAGM,TEFLON	EACH	\$ 142.00	3	\$426.00
102338	VALVE,BALL,2 WAY,1/4",BRASS BODY,FNPT,1500#, BRASS	EACH	\$ 54.71	3	\$164.13
102524	GAUGE\PRESS.0-160 PSI.1/4" MNPT BACK.2" FACE.BRASS.5 PSI	EACH	\$ 18.03	3	\$54.08
102530	VALVE,GATE,RISING STEM 3",CLASS 300, STEEL BODY	EACH	\$ 354.94	1	\$354.94
102587	GASKET\PRE CUT.VALVE/SAFETY RELIEF PILOT....CIRCULAR..	EACH	\$ 27.24	4	\$108.96
102608	PIPE,WELDED,2-1/2",MI/BLACK IRON,SCH 40	FOOT	\$ 5.17	9	\$46.52
102689	KIT,REPAIR,REGULATOR,6 PCS	EACH	\$ 14.99	3	\$44.96
102699	FLANGE,PIPE,BLIND,8", 150 LBS,STEEL	EACH	\$ 48.36	1	\$48.36
102704	FLANGE,PIPE,BLIND,RAISED FACE,2",CLASS 150,A105,SCH 40,	EACH	\$ 12.79	1	\$12.79
102822	BEARING,ROLLER,MECHANICALLY RETAINED OPEN END,NEI	EACH	\$ -	27	\$0.00
103017	WIRE,WELDING,MIG CORESHIELD 15,.035"	POUND	\$ 3.48	20	\$69.51
103030	LUBRICANT,SILICONE,EXTREME HI TEMPERATURE,8 LB CA	CAN	\$ 205.55	2	\$411.11
103106	LINKAGE,ACTUATOR,ROD END,5/8" BOLT,STEEL	EACH	\$ 44.71	1	\$44.71
103756	GRATING,SMOOTH EDGE,36"X120",STEEL, 1-1/4"-3/16" C	EACH	\$ 334.67	1	\$334.67
103888	BOX,JUNCTION,6"X12"X12",STEEL	EACH	\$ 88.76	1	\$88.76
104274	MODULE,ADAPTER,I/O	EACH	\$ 1,019.57	1	\$1,019.57
104513	MONITOR,VIDEO,MICROSELECT 64 SYSTEM,12"	EACH	\$ 925.00	1	\$925.00
104684	COUNTER,ELECTRICAL,6 DIGIT,120 VAC	EACH	\$ 325.00	1	\$325.00
104835	BARRIER,INSULATING,TERMINAL BLOCK END	EACH	\$ -	1	\$0.00

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INN	Description	UOM	Unit Cost	Qty	Write-off value
104841	CLIP,RETAINING,TERMINAL BLOCK,1-1/2"X1-3/4",STEEL	EACH	\$ -	1	\$0.00
105076	PIPE,PLASTIC,1",CPVC,SCH 80,PLAIN END	FOOT	\$ 1.63	40	\$65.23
105248	ACTUATOR,ROTARY POSITIONER,SINGLE PHASE 120VAC,400	EACH	\$ 6,005.00	1	\$6,005.00
105249	ACTUATOR,ELECTRIC.ROTARY POSITIONER.80 FT-LBS.120 VA	EACH	\$ 5,135.00	1	\$5,135.00
105282	BREAKER,100 A,600 VAC,3 POLE	EACH	\$ 686.81	1	\$686.81
105629	SET,PACKING,GRAPHITE,3/4"X3-9/16",5 RING	EACH	\$ 125.00	2	\$250.00
105640	VALVE,BALL,2 WAY,1/4",SS BODY,FNPT,2000#, SS 316 BALL	EACH	\$ 19.69	1	\$19.69
105700	VIBRATOR,PNEUMATIC,METALLIC IMPACT TYPE	EACH	\$ 211.00	2	\$422.00
105714	RING,OIL,BRASS	EACH	\$ 475.00	2	\$950.00
106033	SEAT,VALVE,3",SS	EACH	\$ 783.00	2	\$1,566.00
106034	ASSEMBLY,PLUG & STEM	EACH	\$ 1,148.40	2	\$2,296.80
106043	NUT,HEX,2"-12,STEEL/HAZ 450 HT	EACH	\$ 922.39	1	\$922.39
106044	NUT,HEX,2"-12,STEEL/HAZ 450 HT	EACH	\$ 204.00	2	\$408.00
106070	OVERLOAD,THERMAL,FH50,480 VAC	EACH	\$ 3.10	4	\$12.39
106271	SWITCH,PUSHBUTTON,EMERGENCY STOP,120 VAC,10 A	EACH	\$ 88.56	2	\$177.13
106435	SWITCH,PROXIMITY,115/240/480/600 VAC,10 A,SPDT	EACH	\$ 240.20	2	\$480.40
106636	HUB\COUPLING:4 FAST SB:2.9986" BORE, 3/4"KEYWAY,STEEL	EACH	\$ 1,877.00	1	\$1,877.00
106655	HUB\COUPLING:4 FAST SB:3.998" BORE, 1" KEYWAY:STEEL::D	EACH	\$ 1,950.00	1	\$1,950.00
106676	COUPLING,DRIVE,OMEGA 3,1.38" ROUGH BORE/BOTH END	EACH	\$ 121.24	2	\$242.48
106710	PIPE,WELDED,1/2",MI/BLACK IRON,SCH 80	FOOT	\$ 1.26	17	\$21.37
106720	VALVE,DIAPHRAGM,TEFLON LINED,1",CI BODY, FLGD 4	EACH	\$ 1,003.00	2	\$2,006.00
106779	LEVER,TRIP	EACH	\$ 32.80	6	\$196.80
106780	ROD,CONTROL	EACH	\$ 80.40	10	\$804.00
106781	RING,SPACER	EACH	\$ 11.80	5	\$59.00
106783	ARM,SWITCH,LIMIT	EACH	\$ 11.50	4	\$46.00
106785	BUSHING,GUIDE	EACH	\$ 3.15	6	\$18.90
106786	RING,SPACER	EACH	\$ 8.90	6	\$53.40
106787	SPRING,FLAT	EACH	\$ 15.60	2	\$31.20
106805	SPRING,COIL,COMPRESSION	EACH	\$ 1.25	6	\$7.50
106806	SPRING,COIL,COMPRESSION	EACH	\$ 14.05	4	\$56.20
106807	SPRING,COIL,COMPRESSION	EACH	\$ 2.39	7	\$16.73
106808	BRACKET,~	EACH	\$ 34.07	4	\$136.27
106812	BRACKET,LEAF	EACH	\$ 5.30	4	\$21.20
106817	GUIDE,BAR	EACH	\$ 211.30	1	\$211.30
106821	STUD,SHOULDER	EACH	\$ 31.75	17	\$539.75
106822	WHEEL,IDLER,TRIP	EACH	\$ 21.25	2	\$42.50
106829	YOKE,CONNECTING,SPRING	EACH	\$ 22.75	6	\$136.50
106891	CAM,DRIVE,SOOTBLOWER	EACH	\$ 110.80	2	\$221.60
106892	SET,PACKING	EACH	\$ 31.46	5	\$157.29
106893	RING,SPACER	EACH	\$ 11.30	4	\$45.20
106894	ARM,CONTROL,IR ELECTRIC	EACH	\$ 52.65	6	\$315.90
106896	SCREW,~	EACH	\$ 8.94	1	\$8.94
107115	FLANGE,PIPE,THREADED,RAISED FACE,2",CLASS 150,A105,4 B	EACH	\$ 15.42	2	\$30.85
107252	VALVE,SOLENOID,2 WAY,120 VAC,3/4" FNPT,BRONZE, 135#,3	EACH	\$ 86.06	1	\$86.06
107536	ORIFICE,AIR,BRASS/TEFLON,400 LBS	EACH	\$ 9.80	5	\$49.00
107557	FLANGE/PIPE..RAISED FACE.1".150 LBS.A105.SW..4 BOLT.STD.	EACH	\$ 12.70	2	\$25.40
107588	PIPE,PLASTIC,3/4",PVC,SCH 80,PLAIN END	FOOT	\$ 0.41		\$0.00
107635	SLEEVE,LOCKING,1/4"X1/2",STEEL	EACH	\$ 0.55	52	\$28.36
107723	COUPLING,PIPE,1/2",SW,A105,6000 LBS	EACH	\$ 8.74	8	\$69.92
107784	ELBOW,PIPE,45 DEG,1/2",SW,F22,6000 LBS	EACH	\$ 17.96	8	\$143.68
107891	PLUG,BREAKER,MALE,BLACK	EACH	\$ -	3	\$0.00
107896	SWITCH,AUXILIARY,120 VAC/VDC,30 A,8 C	EACH	\$ 895.00	2	\$1,790.00
107910	TUBING,SS,TYPE 316 SEAMLESS,1/2"X.049"	FOOT	\$ 3.03	20	\$60.60
107972	CONTROLLER,ELECTRICAL,MOTOR SPEED	EACH	\$ 595.00	1	\$595.00

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108009	TRANSMITTR,DIFF PRESS,SMART,0-25 IN.H2O,4-20 MA	EACH	\$ 1,083.00	1	\$1,083.00
108014	METER,AMP,AC,0-200 A	EACH	\$ -	1	\$0.00
108050	CONTROLLER,LOOP COMMAND,SINGLE	EACH	\$ 1,846.67	2	\$3,693.33
108162	GASKET,SPIRAL WOUND,STUFFING BOX TO HEAD.SPEC R..SS	EACH	\$ 172.00	1	\$172.00
108176	BEARING,BALL,SGL ROW OPEN,1.5748" BORE	EACH	\$ 23.07	2	\$46.14
108193	CONNECTOR,CABLE,THRUST BEARING PROBE,22-18 AWG,4 P	EACH	\$ -	6	\$0.00
108276	DISPLAY,BARGRAPH,2 CHANNEL,0-4"/0-20" H2O,120 VAC	EACH	\$ 550.00	1	\$550.00
108350	WIRE,IGNITION,HIGH VOLTAGE	FOOT	\$ 2.83	100	\$283.00
108351	ROD,IGNITOR	EACH	\$ 238.00	2	\$476.00
108352	PLUG,SPARK	EACH	\$ 241.80	1	\$241.80
108353	KIT,TERMINATION,WIRE	EACH	\$ -	1	\$0.00
108354	TRANSFORMR,DRY,IGNITION,120 V PRI,10000 V SEC	EACH	\$ 121.50	1	\$121.50
108358	ASSEMBLY,VALVE,BALL TYPE W/ACTUATOR	EACH	\$ 1,216.00	1	\$1,216.00
108360	ACTUATOR,PNEUMATIC,SPRING RETURN,0-120 PSI RANGE	EACH	\$ 315.00	1	\$315.00
108373	SWITCH,PUSHBUTTON,LED DISPLAY/RED,5 V,SPDT	EACH	\$ 26.35	2	\$52.70
108562	WASHER,FLAT,9/16" ID,MICARTA,3/8" T,1" SQ	EACH	\$ -	5	\$0.00
108578	WEARBACK,TEE,6",DURITE	EACH	\$ 279.00	2	\$558.00
108692	PLATE,STOP,DISCHARGE VALVE	EACH	\$ -	1	\$0.00
108805	CONDITIONR,SIGNAL,ISOLATION,0-1 MA IN,4-20 MA OUT	EACH	\$ 315.00	2	\$630.00
108993	COUPLING,DRIVE	EACH	\$ 1,155.31	1	\$1,155.31
109295	GASKET,PRECUT,CASING:DURLON 7900:1/16"X8-1/2"X9-3/16"::	EACH	\$ 3.00	1	\$3.00
109339	SLEEVE,SHAFT,PUMP,1-1/2"X5-11/16",SS	EACH	\$ 370.00	1	\$370.00
109371	REGULATOR,VOLTAGE,10 PIN,30 V	EACH	\$ -	3	\$0.00
109415	SOLVENT,SAFETY,55 GAL DRUM MATERIAL SAFETY	DRUM	\$ 1,189.00	2	\$2,377.99
109432	HUB,COUPLING,GRID,MINIMUM BORE	EACH	\$ 21.70	8	\$173.60
109433	ELEMENT,COUPLING,ELASTOMER,E3	EACH	\$ 62.79	2	\$125.58
109490	CLAMP,FLANGE,TIRE..	EACH	\$ 919.09	1	\$919.09
109503	TIMER,ELECTRIC,RELAY,0-150 MIN,120 VAC,10 A	EACH	\$ 117.00	1	\$117.00
109666	GASKET,PRECUT,NUT/2ND STAGE SETSCREW,LEAD,7/8"	EACH	\$ 6.80	10	\$68.00
109779	SHAFT,~,1"X13-1/4",STEEL	EACH	\$ 349.18	1	\$349.18
109784	BEARING,BALL,SGL ROW 1 SEAL,1" BORE	EACH	\$ 26.11	2	\$52.22
109793	ROLLER,CARRIAGE	EACH	\$ 60.58	2	\$121.16
109797	ROLLER,CARRIAGE	EACH	\$ 111.09	1	\$111.09
109800	SWITCH,TOGGLE,125 VAC,6 A,3PST	EACH	\$ 27.57	2	\$55.15
110214	KIT,REPAIR,VALVE/SOLENOID	KIT	\$ 93.60	1	\$93.60
110239	MODULE,ADAPTER,I/O	EACH	\$ 18.47	8	\$147.76
110288	CONTACT,AUXILIARY,660 V,2NO 2NC	EACH	\$ 33.82	1	\$33.82
110624	CIRCUIT BD,CPU,196	EACH	\$ 1,386.24	1	\$1,386.24
110685	ELBOW,PIPE,90 DEG,1/2",SW,F22,6000 LBS	EACH	\$ 14.37	7	\$100.59
110808	FILTER,OIL,3 MICRON,2-7/16"X6-1/4"X18"	EACH	\$ 17.55	7	\$122.83
110895	NUT,SHAFT SLEEVE,6"	EACH	\$ 685.35	3	\$2,056.05
110916	SET,GASKET,VALVE,2 PC	SET	\$ 164.00	1	\$164.00
110917	STEM,VALVE	EACH	\$ 161.50	1	\$161.50
110918	PLUG,VALVE,SS 316	EACH	\$ 1,742.25	1	\$1,742.25
110919	SEAT,VALVE,SS 316	EACH	\$ 393.75	1	\$393.75
110921	CAGE,VALVE,LINEAR	EACH	\$ 1,686.00	1	\$1,686.00
110922	KIT,REPAIR,VALVE/CONTROL,3 PCS	KIT	\$ 3.60	1	\$3.60
110926	BUSHING,VALVE	EACH	\$ 36.00	1	\$36.00
110930	PISTON,RAPPER,2-3/8"X16"	EACH	\$ 49.00	7	\$343.00
110932	TUBE,GUIDE,2-1/2",ALU	EACH	\$ 19.00	16	\$304.00
110933	COIL,RAPPER,240 VAC	EACH	\$ 247.42	3	\$742.25
110976	GEAR,WORM,GOVERNOR	EACH	\$ 918.00	1	\$918.00
110988	JOINT,EXPANSION,PIPE,3",STEEL/RUBBER,FLANGED	EACH	\$ 272.00	2	\$544.00
111243	BLADE,BANDSAW,1"X159	EACH	\$ 70.25	2	\$140.51

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INN	Description	UOM	Unit Cost	Qty	Write-off value
111356	KIT\REPAIR.PUMP/VACUUM.KNF,410I CO2 & 43I SO2 ANALYZER	KIT	\$ 28.07	4	\$112.27
111391	DESICCANT,CALCIUM SULFATE	PACKAGE	\$ 14.31	3	\$42.94
111399	LAMP,ULTRA-VIOLET,FLASH TYPE	EACH	\$ 883.75	1	\$883.75
111412	CARTRIDGE,CONVERTER,MOLY/NOX ANALYZER	EACH	\$ 605.83	1	\$605.83
111416	ORIFICE,AIR,GLASS,30ML,200:1 DILUTION RATIO	EACH	\$ 427.18	1	\$427.18
111426	UNIT,SOURCE,INFRARED,CO2 41H ANALYZER	EACH	\$ 84.22	1	\$84.22
111438	METER,FLOW,0-10 LITER,PURGE FLOW	EACH	\$ 323.23	1	\$323.23
111462	VALVE,SOLENOID,2 WAY 24 VDC,1/8" FNPT,SS,30 #, 1/8" ORIF	EACH	\$ 42.21	5	\$211.03
111469	HEATER,ANALYZER,NOX 42D	EACH	\$ 244.00	1	\$244.00
111474	SOCKET,U.V.LAMP,SO2 43B ANALYZER (TRIGGER PAK)	EACH	\$ 474.28	1	\$474.28
111479	REGULATOR/PRESSURE.FILTER..1/4" FNPT.150 PSI.	EACH	\$ 77.19	1	\$77.19
111603	PIPE,WELDED,2",MI/BLACK IRON,SCH 80	FOOT	\$ 4.86	21	\$102.06
111738	WASHER,PANT LEG,1/16" T,STEEL	EACH	\$ 53.00	9	\$477.00
111772	BOLT,ROUND HD,SLOTTED,1"-8X1-3/4"	EACH	\$ 75.00	2	\$150.00
111928	BREAKER,2 A,240 VAC,1 POLE	EACH	\$ -	14	\$0.00
111941	FILTER,LIGHT,CORREL WHEEL OPTICAL LENS,FOR A CO2 41H	EACH	\$ 917.00	1	\$917.00
112214	RING,LANTERN	EACH	\$ 181.00	2	\$362.00
112215	SHIM,~,BEARING SPACER	EACH	\$ 24.00	2	\$48.00
112217	SEAL,SHAFT	EACH	\$ 449.00	4	\$1,796.00
112223	RING,SPACER	EACH	\$ 24.00	1	\$24.00
112224	RING,SPACER	EACH	\$ 24.00	1	\$24.00
112227	RING,SPACER	EACH	\$ 24.00	1	\$24.00
112230	(OEM)RETAINER,PLATE,THRUST	EACH	\$ 257.00	1	\$257.00
112231	GUIDE,SCOOP SLIDE	EACH	\$ 246.00	1	\$246.00
112232	ASSEMBLY,SCOOP TUBE,COUNTER CLOCKWISE	EACH	\$ 1,929.00	1	\$1,929.00
112234	ASSEMBLY,SCOOP TUBE,CLOCKWISE	EACH	\$ 1,929.00	1	\$1,929.00
112306	GASKET,PRECUT,RUBBER,1/8"X1-1/2"X1-7/8"	EACH	\$ 1.78	3	\$5.34
112313	BUSHING,VALVE,STOP/REHEAT	EACH	\$ 625.00	1	\$625.00
112322	GASKET,PRECUT,VALVE/INTERCEPTOR	EACH	\$ 19.00	4	\$76.00
112330	GASKET,PRECUT.BONNET/THROTTLE VALVE..16.940 X 18.180	EACH	\$ 35.87	3	\$107.61
112361	SHIELD,GAUGE GLASS,15",MICA	EACH	\$ 84.00	4	\$336.00
112362	GLASS,LEVEL GAUGE ,TRANSPARENT,SIZE 15	EACH	\$ 103.00	4	\$412.00
112556	KIT,BOLT/SCREW,COUPLING	KIT	\$ -	3	\$0.00
112810	TACHOMETER,SPEED	EACH	\$ 490.00	1	\$490.00
112812	ASSEMBLY,CABLE,SHIELDED,2/C,GREY,PVC	EACH	\$ 75.00	2	\$150.00
112815	SENSOR,MOVEMENT,MAGNETIC,40-65 VPP	EACH	\$ 133.00	1	\$133.00
112903	SEAL,MECHANICAL,1100,1-3/8",SS 316	EACH	\$ 805.00	1	\$805.00
112942	GASKET,PRECUT,FLANGE/BOTTOM,SS	EACH	\$ 105.75	2	\$211.50
112943	GASKET,PRECUT,BONNET,COPPER	EACH	\$ 24.90	2	\$49.80
113020	TRANSMITTR,PRESSURE,30" HG-30 PSI,4-20 MA OUT	EACH	\$ 358.81	1	\$358.81
113169	BEARING,BALL,SGL ROW 2 SHIELDS,.7874" BORE	EACH	\$ 10.25	9	\$92.25
113174	GLASS,INDICATOR,FLOW,1/4"X3",TEMPERED	EACH	\$ 11.28	1	\$11.28
113263	CONNECTOR,CABLE,THERMOCOUPLE,18-22 AWG,ALU/RUBBER	EACH	\$ 76.11	15	\$1,141.65
113354	FLANGE,PIPE,SLIP ON,RAISED FACE,1/2",150 LBS,A105,SCH 40,	EACH	\$ 9.85	1	\$9.85
113747	SWITCH,AUXILIARY,ROTARY,NEMA 4	EACH	\$ 192.10	2	\$384.20
113863	SWITCH,PUSHBUTTON,LIGHT INDICATED/CLEAR,125VAC/30V	EACH	\$ 20.91	3	\$62.73
113892	TIP,PROBE,IGNITOR	EACH	\$ 170.00	2	\$340.00
113916	TIP,TORCH,IGNITOR/ATOMIZER	EACH	\$ 320.50	2	\$641.00
113917	ASSEMBLY,MODULAR TIP	EACH	\$ 848.00	1	\$848.00
114043	VALVE,SOLENOID,4 WAY EXP PROOF,120 VAC,1/2" FNPT, ALU	EACH	\$ 162.38	1	\$162.38
114083	ASSEMBLY,SENSOR,FLAME	EACH	\$ 5,225.05	6	\$31,350.29
114126	NIPPLE,PIPE,2"X6",MI/BLACK IRON,SCH 80	EACH	\$ 5.11	1	\$5.11
114291	FLANGE,PIPE,BLIND,4",150 LBS,A105,8 BOLT	EACH	\$ 15.84	2	\$31.68
114320	CIRCUIT BD,INTERFACE,AVC	EACH	\$ 300.00	1	\$300.00

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INN	Description	UOM	Unit Cost	Qty	Write-off value
114321	CIRCUIT BD,INTERFACE,AVC 9000	EACH	\$ -	1	\$0.00
114330	DETECTOR,CURRENT,GROUND FAULT	EACH	\$ 272.00	3	\$816.00
114415	FILTER\AIR..22'L.FOAM..	EACH	\$ 89.09	3	\$267.26
114439	OIL\MACHINE:TYPE AX COMPRESSOR::1 GAL CONTAINER:D2	GALLON	\$ 64.81	4	\$259.26
114493	PIPE,PLASTIC,6",PVC,SCH 80,PLAIN END	FOOT	\$ 7.67	20	\$153.40
114591	HOUSING,JOURNAL,LOWER	EACH	\$ 15,196.58	1	\$15,196.58
114623	GASKET,SPIRAL WOUND,3" PIPE,STYLE R1,1500 PSI,316	EACH	\$ 10.59	1	\$10.59
114665	STATION,HAND/AUTO,PNEUMATIC,30 PSI,3-27 PSI,0-100%	EACH	\$ -	2	\$0.00
114791	GEAR,SPUR,PINION/CARRIAGE,12 TEETH,1" BORE,2" OD	EACH	\$ 133.55	4	\$534.20
114795	BLADE\SCRAPER:PIVOT ASSEMBLY::	EACH	\$ 922.74	2	\$1,845.49
114866	BEARING,BALL,SGL ROW OPEN,.7874" BORE	EACH	\$ 4.10	3	\$12.29
114879	IC,EPROM,196	EACH	\$ -	1	\$0.00
114968	STUD,TAP,90 DEGREE,10-32,COPPER	EACH	\$ 8.22	5	\$41.12
114969	BRUSH\CARBON:QUICK CONNECT/COMMUTATOR:1/2"X1-3/8"	EACH	\$ 11.88	100	\$1,188.00
114970	BRUSH\CARBON.QUICK CONNECT/COLLECTOR.1 1/2"X1"X2-3/8"	EACH	\$ 36.95	40	\$1,478.00
115074	DIODE,RECTIFIER,FORWARD BIAS,400 V,100 A	EACH	\$ -	3	\$0.00
115075	LENS,LIGHT,COVER/PILOT LIGHT,RED	EACH	\$ -	2	\$0.00
115077	LAMP,NEON,INDICATOR,220 V,1.4 MA	EACH	\$ -	4	\$0.00
115078	LAMP,NEON,INDICATOR,220 V,1.5 MA	EACH	\$ -	6	\$0.00
115080	FUSE,ONE-TIME,TIME DELAY,600 A,250 V	EACH	\$ -	4	\$0.00
115081	RECTIFIER,SILICON CONT,GATE,800 V,400 A	EACH	\$ 355.66	2	\$711.32
115082	DIODE,RECTIFIER,REVERSE BIAS,300 V,150 A	EACH	\$ -	2	\$0.00
115083	DIODE,RECTIFIER,FORWARD BIAS,300 V,150 A	EACH	\$ -	1	\$0.00
115084	CAPACITOR,ELECTROLYTIC,12 MFD,1000 V	EACH	\$ -	1	\$0.00
115104	CAPACITOR,CERAMIC,40 UF,250 VDC PEAK	EACH	\$ 25.00	2	\$50.00
115270	BEARING,BALL,DBL ROW OPEN,2.3622" BORE	EACH	\$ 90.37	2	\$180.74
115272	BLADE,FAN,EXHAUSTER 663 PUL.CW,STEEL/CERAMIC	EACH	\$ 1,052.00	8	\$8,416.00
115301	PIN,PIVOT,NOZZLE/COAL,SS 304	EACH	\$ 26.50	1	\$26.50
115302	PIN,LINK,#10 COAL NOZZLE,SS 304	EACH	\$ 7.70	1	\$7.70
115303	GASKET PRECUT.NOZZLE/COAL..18".... WITH HOLES.	EACH	\$ 16.19	5	\$80.95
115310	RING/GROOVE:WELD/FUEL:14":	EACH	\$ 257.00	2	\$514.00
115618	WEIGHT,WIRE,PRECIPITATOR,4"X14-3/4",CAST IRON	EACH	\$ -	17	\$0.00
115651	BLADE,FAN,EXHAUSTER 663 PUL.CCW,STEEL/CERAMIC	EACH	\$ 1,052.00	8	\$8,416.00
115700	BELT,V,WEDGE TYPE,3/8"X45"	EACH	\$ 7.27	1	\$7.27
115743	ASSEMBLY,SEAL,EL-64 PUL V TAILING DISCH CW,REF#46	EACH	\$ 1,161.00	1	\$1,161.00
116036	KIT,REPAIR,SEAL/MECHANICAL	EACH	\$ 340.00	1	\$340.00
116038	VIBRATOR,ELECTRIC,HOPPER/ASSEMBLY,230/460 V	EACH	\$ 1,517.00	1	\$1,517.00
116281	CIRCUIT BD,FEEDBACK,POSITION SENSOR/CONTROL	EACH	\$ 185.00	1	\$185.00
116340	VALVE,CHECK,K-2/JACKETED,3/4",A105 BODY,FNPT	EACH	\$ 2,745.00	1	\$2,745.00
116342	GASKET,CHECK/VALVE,TEFLON,.048"X1-3/16"X1-7/16"	EACH	\$ 8.55	8	\$68.40
116343	HEAD,PUMP	EACH	\$ 3,032.00	2	\$6,064.00
116345	BALL,VALVE,CHECK,7/8",440 SS	EACH	\$ 45.00	4	\$180.00
116346	SEAT,VALVE,CHECK,3/4",SS	EACH	\$ 174.00	4	\$696.00
116347	PLUNGER,SHAFT,1/2",440 SS	EACH	\$ 889.00	1	\$889.00
116348	BUSHING,GUIDE,THROAT PLUNGER,1/2",CARB/GRAPHITE	EACH	\$ 190.00	1	\$190.00
116349	SET,PACKING,V-RING,TEFLON,1/2",16 RING	EACH	\$ 78.00	2	\$156.00
116361	CONTROLLER,ELECTRICAL,PROCESSOR	EACH	\$ 2,500.00	1	\$2,500.00
116365	MODULE,OUTPUT,AC/LOGIC	EACH	\$ 12.00	3	\$36.00
116366	MODULE,OUTPUT,DC/LOGIC	EACH	\$ 9.50	1	\$9.50
116371	CIRCUIT BD,EXPANSION,ANALOG BRICK	EACH	\$ 335.00	2	\$670.00
116372	TRANSDUCER,CURRENT,OUTPUT,4-20 MA OUT	EACH	\$ 100.00	1	\$100.00
116373	TRANSDUCER,CURRENT,INPUT,4-20 MA IN	EACH	\$ 125.00	1	\$125.00
116374	MODULE,INPUT,TYPE J T/C	EACH	\$ 125.00	1	\$125.00
116376	FUSE,ONE-TIME,SUBMINIATURE,1 A,250 V	EACH	\$ -	5	\$0.00

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INN	Description	UOM	Unit Cost	Qty	Write-off value
116448	NOZZLE,ATOMIZER	EACH	\$ 186.90	2	\$373.80
116450	ATOMIZER\BURNER.OIL	EACH	\$ 217.19	2	\$434.38
116451	RETAINER,NOZZLE	EACH	\$ 186.90	2	\$373.80
116503	VALVE,RELIEF,SAFETY/OIL SERVICE,1",BRONZE BODY, FNP	EACH	\$ 176.77	1	\$176.77
116530	ELBOW,PIPE,90 DEG BURNER,13-1/4"X83-3/4"	EACH	\$ 5,485.06	1	\$5,485.06
116588	CONTROLLER,ELECTRONIC,TEMPERATURE,CEMS,DIL PROBE	EACH	\$ 290.35	1	\$290.35
116589	ELEMENT,HEATER,COILED,NEW STYLE CEMS DIL.PROBE	EACH	\$ 182.94	1	\$182.94
116606	RING,SEAT,VALVE,SS	EACH	\$ 594.00	1	\$594.00
116612	BLADE,SCRAPER,FEEDER TABLE/CW RH STR.,STEEL	EACH	\$ 374.44	2	\$748.88
116667	STUD,TAP,90 DEGREE,5/16-18,COPPER	EACH	\$ 4.75	11	\$52.25
116705	GASKET,PRECUT,COOLER/OIL IN/OUT,SPLIT CIRCLE	EACH	\$ 33.00	4	\$132.00
116708	GASKET,PRECUT,COOLER/OIL REVERSING,GARLOCK 961	EACH	\$ 21.00	3	\$63.00
116753	HOLDER,BRUSH,EXCITER	EACH	\$ 1,053.00	6	\$6,318.00
116817	GEAR,MITER,PINION,27 TEETH,47/64" BORE	EACH	\$ -	15	\$0.00
116818	GEAR,MITER,PINION,18 TEETH	EACH	\$ -	14	\$0.00
116888	BEARING,THRUST,TAPER ROLLER,6" BORE,12" OD,2.7500" W	EACH	\$ 4,397.22	1	\$4,397.22
116889	BEARING,ROLLER,SGL ROW,CYL,4.3307" BORE,9.4488" OD,1.9	EACH	\$ 820.70	1	\$820.70
116969	ALTERNATOR,TWO PUMP,TYPE AW-1 NEMA 4 CL-9038,SQ.D	EACH	\$ 390.00	1	\$390.00
116970	DIAPHRAGM,NEOPRENE,VALVE/PILOT	EACH	\$ 50.03	2	\$100.07
116993	SEAT,VALVE,GOVERNOR/LOWER	EACH	\$ 307.00	1	\$307.00
116994	SEAT,VALVE,GOVERNOR/UPPER	EACH	\$ 408.00	1	\$408.00
116995	SHAFT,VALVE,SPEED CHANGER/GOVERNOR	EACH	\$ 983.00	1	\$983.00
117003	ROD,GUIDE,GOVERNOR,.373X1.25	EACH	\$ 65.00	2	\$130.00
117004	SEAT,VALVE,GOVERNOR	EACH	\$ 151.00	1	\$151.00
117006	VALVE,CUP,GOVERNOR	EACH	\$ 217.00	1	\$217.00
117007	SHAFT,WORM,SPEED CHANGER/GOVERNOR	EACH	\$ 313.00	1	\$313.00
117009	BUSHING,GUIDE,GOV SPEED CHANGER WORM WHEEL	EACH	\$ 245.00	1	\$245.00
117010	BUSHING,GUIDE,GOV SPEED CHANGER WORM WORMWHEEL	EACH	\$ 27.00	4	\$108.00
117012	BELLOWS,BRASS,TRANSFORMER/GOVERNOR	EACH	\$ 914.50	1	\$914.50
117013	GEAR,WORM,SPEED CHANGER/GOVERNOR	EACH	\$ 620.00	1	\$620.00
117014	PLUG,ORIFICE,RESTRICTION,.54"X1.25"	EACH	\$ 289.00	1	\$289.00
117015	PLUG,ORIFICE,RESTRICTION,.54"X1.25"	EACH	\$ 289.00	1	\$289.00
117016	PLUG,ORIFICE,RESTRICTION,.54"X2.50"	EACH	\$ 337.00	2	\$674.00
117022	FLANGE,PIPE,SLIP ON,RAISED FACE,3",600 LBS,A105,8 BOLT	EACH	\$ 34.38	1	\$34.38
117039	ASSEMBLY,STEM,VALVE	EACH	\$ 1,360.00	2	\$2,720.00
117040	RING,SEAT,VALVE	EACH	\$ 594.00	2	\$1,188.00
117049	SEAT,SPRING,JOURNAL	EACH	\$ 285.53	1	\$285.53
117124	HOSE\OIL.150# SS316 FLANGED.316SS BRAIDED.3"X96"OAL..FI	EACH	\$ 630.63	1	\$630.63
117147	CAM,DRIVE,LIMIT,2",PLASTIC	EACH	\$ 8.70	6	\$52.20
117277	RING,RETAINING,BEARING,7-9/16"X8-3/8",STEEL	EACH	\$ 17.50	1	\$17.50
117278	BEARING,ROLLER,SPH SELF ALIGN CYL,4.3307" BORE	EACH	\$ 324.71	2	\$649.42
117279	BEARING,ROLLER,SGL ROW CYL,3.7402" BORE	EACH	\$ 426.06	2	\$852.12
117280	HOUSING,BEARING,EXHAUSTER FAN	EACH	\$ 762.00	2	\$1,524.00
117281	SLINGER,DUST,SPACER	EACH	\$ 873.00	2	\$1,746.00
117282	SLINGER,DUST	EACH	\$ 423.00	1	\$423.00
117508	ASSEMBLY,COOLER,PMT,NOX 42D ANALYZER	EACH	\$ 1,790.00	1	\$1,790.00
117529	SWITCH,LIMIT,EXP PROOF-WEATH SEALED,125/250/480 VA	EACH	\$ 272.79	1	\$272.79
117560	ASSEMBLY,STEM,VALVE,CONSISTING OF: VALVE STEM,FISH	EACH	\$ -	1	\$0.00
117645	LAMP,INCANDESCENT,SEALED BEAM,6 V,8 W, SCREW T	EACH	\$ 11.24	16	\$179.84
117716	CAGE,VALVE,LINEAR,SS	EACH	\$ 2,578.00	1	\$2,578.00
117717	PLUG,VALVE,SS	EACH	\$ 1,934.00	1	\$1,934.00
117719	RING,RETAINING	EACH	\$ 31.00	1	\$31.00
117720	RING,BACKUP,SEAT	EACH	\$ 504.00	1	\$504.00
117721	RING,SEAL,RADIAL/SPRING	EACH	\$ 239.00	1	\$239.00

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INN	Description	UOM	Unit Cost	Qty	Write-off value
117722	RETAINER,RING,SEAT	EACH	\$ 806.00	1	\$806.00
117727	CAGE,VALVE,LINEAR,SS	EACH	\$ 4,217.00	1	\$4,217.00
117729	RING,SEAT,VALVE	EACH	\$ 1,406.00	1	\$1,406.00
117731	GASKET,PRECUT,VALVE,SS	EACH	\$ 210.00	2	\$420.00
117732	GASKET,PRECUT,VALVE,SS	EACH	\$ 113.00	1	\$113.00
117777	COVER,PULLEY/BELT	EACH	\$ 135.00	2	\$270.00
117858	DISC,VALVE,SS	EACH	\$ 1,106.64	1	\$1,106.64
117939	OVERLOAD,THERMAL,B6.25,3.7-4A	EACH	\$ 15.27	4	\$61.08
118088	MOTOR,AC,220/440 V,5 HP,1750/1450 RPM,3 PH,215	EACH	\$ -	1	\$0.00
118094	5",45 DEG LATERAL	EACH	\$ 1,075.00	1	\$1,075.00
118123	GASKET,PRECUT,MANHOLE/LP,TACKY CLOTH,1/4"X21"X24".	EACH	\$ 25.28	3	\$75.84
118213	BEARING,SLEEVE,REDUCTION GEAR JOURNAL	EACH	\$ 3,573.00	2	\$7,146.00
118225	SWITCH,LIMIT,NEUTRAL POS/SPRING RETURN,600 VAC,12	EACH	\$ 163.28	1	\$163.28
118248	VALVE,SOLENOID,4 WAY 2 POS EP/WATER TIGHT,120 VAC,1/4	EACH	\$ 301.08	1	\$301.08
118281	ASSEMBLY,LAMP,PILOT LIGHT,120 VAC,RED,22MM	EACH	\$ 37.86	1	\$37.86
118282	ASSEMBLY,LAMP,PILOT LIGHT,120 VAC,GREEN,22MM	EACH	\$ -	3	\$0.00
118436	VALVE,SOLENOID,3 WAY,120 VAC,1/8" FNPT,BRASS, 100# W	EACH	\$ 88.14	1	\$88.14
118654	MOTOR,AC,240/480 V,1 HP,1140 RPM,3 PH,184 FRAME	EACH	\$ 442.31	1	\$442.31
118670	PLATE,VALVE,SOFT SIDE BODY W/BSHG,5".DURITE	EACH	\$ 572.00	5	\$2,860.00
118721	VALVE,RELIEF,POPLET,1/4",SS BODY,MNPT IN/FNPT OUT	EACH	\$ 138.28	1	\$138.28
118723	TRANSMITTR\PRESSURE:MAGNEHELIC:0-6" H2O:4-20 MA OUT	EACH	\$ 183.04	2	\$366.07
118750	SWITCH,PRESS,HIGH PRESSURE,0-300 PSI,1/2"NPT,480 V	EACH	\$ 117.90	1	\$117.90
118948	CONVERTER,I/P,4-20 MA IN,3-27 PSI OUT	EACH	\$ 465.00	1	\$465.00
119090	THERMOSTAT,CONTROL,BUTTON,15 A,80/110 DEG F	EACH	\$ 17.00	1	\$17.00
119100	KIT,REPAIR,VALVE/GATE 8" 150W	EACH	\$ 801.50	1	\$801.50
119187	TRANSMITTR,DIFF PRESS,SMART,0-150" H2O,4-20 MA OUT	EACH	\$ 888.00	1	\$888.00
119208	WIRE,WELDING,MIG,.045",ER70S-3/MILD STEEL	POUND	\$ 2.14	66	\$141.09
119271	MOTOR,AC,230/460 V,3 HP,1755 RPM,3 PH, EBL182T FRAN	EACH	\$ -	1	\$0.00
119345	CIRCUIT BD,CONTROLLER,POSITION	EACH	\$ 330.00	1	\$330.00
119347	CIRCUIT BD,LOGIC,POSITIONER	EACH	\$ 395.00	2	\$790.00
119348	VALVE,SOLENOID,5 WAY 3 POS..1/8" NPT.BRASS.25-115#..	EACH	\$ 185.00	1	\$185.00
119503	RING,OIL,SOLID/MOTOR FAN END,..31X5.61X6.25,BRASS	EACH	\$ 605.42	2	\$1,210.84
119584	CAGE,SEAL	EACH	\$ 40.50	4	\$162.00
119732	OIL,MACHINE,SYNTHETIC WHALCOLUBE,1 GAL CONTAINER	GALLON	\$ 72.63	4	\$290.52
119776	GEAR,WORM,SMA-00	EACH	\$ -	1	\$0.00
119777	NUT,STEM	EACH	\$ -	1	\$0.00
119779	SHAFT,WORM,SMA-00	EACH	\$ -	1	\$0.00
119780	KIT,SEAL,ACTUATOR MODEL #SMA-00	EACH	\$ -	1	\$0.00
119908	STARTER,LAMP,FLUORESCENT,120 VAC,13/30/40 W	EACH	\$ 0.48	16	\$7.68
120094	SEAL KIT WITH ROD BEARING FOR A MODEL NO. SDA-2-	EACH	\$ 39.90	1	\$39.90
120641	HEATER,ELECTRIC,460 VAC 3 PHASE,12 KW	EACH	\$ 3,250.00	2	\$6,500.00
120669	RELAY,INDUCTION,120 VAC LINE/480 SEC COIL VOLTAGE	EACH	\$ 113.46	1	\$113.46
120845	VALVE,SOLENOID,4 WAY EP,120 VAC,1/2" FNPT, BRASS,10	EACH	\$ 1,018.00	1	\$1,018.00
121025	LATCH,DOOR FITS DOOR P/N 982-007-AA	EACH	\$ 27.00	2	\$54.00
121307	HOUSING,TAKE-UP,COAL FEEDER	EACH	\$ 248.00	2	\$496.00
121352	BONNET,VALVE,DIAPHRAM,1",STEEL	EACH	\$ 210.00	1	\$210.00
121365	VALVE,CONTROL,MANUAL,3/8",BRASS BODY,FNPT	EACH	\$ 266.92	1	\$266.92
121531	SHAFT,REF#10	EACH	\$ 1,582.00	1	\$1,582.00
121599	SWITCH,PROXIMITY,70 SERIES,SPDT	EACH	\$ 336.00	1	\$336.00
121718	SWITCH\SELECTOR:MAINTAINED:.....3 POSITION	EACH	\$ 42.25	2	\$84.50
121801	SNUBBER,PRESSURE,DAMPENER,1/4"NPT,SS	EACH	\$ 78.14	2	\$156.28
121844	ELBOW,PIPE,90 DEG,4",SW,A105,3000 LBS	EACH	\$ 146.63	1	\$146.63
122147	ROD,WELDING,E8018-B3L-MR,3/32"	POUND	\$ 4.85	80	\$388.00
122255	GEAR\~.BRONZE.....GEAR PUMP (CW).	EACH	\$ 2,363.00	1	\$2,363.00

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INN	Description	UOM	Unit Cost	Qty	Write-off value
122280	STUD	EACH	\$ -	7	\$0.00
122316	MOTOR,AC,460 V,7.5 HP,1170 RPM,3 PH,256U FRAME	EACH	\$ -	1	\$0.00
122437	HOUSING,BEARING,PA FAN	EACH	\$ -	1	\$0.00
122444	VALVE,GATE,3",CLASS 300,WCB BODY,BW, CR 13 TRIM	EACH		1	\$0.00
122477	SLEEVE,YOKE,REF#11,DEWRANCE 4"VALVE #P95KH100QEDA	EACH	\$ 289.69	1	\$289.69
122478	GASKET,CUSHION,SIZE 15	EACH	\$ 4.19	4	\$16.77
122535	COVER,HOUSING,INSULATOR	EACH	\$ 1,150.00	2	\$2,300.00
122576	LINER\WEAR.BULL NOSE.3/4"T.CERMA 9010 W/POLY BACKING	EACH	\$ 6,281.00	1	\$6,281.00
122577	LINER,WEAR,PERIPHERY,1"T.CERMA 9010 W/POLY BACKING	EACH	\$ 2,630.43	2	\$5,260.86
122587	REGULATOR/PRESSURE:AIR:0-20 PSI:1/4" FNPT::	EACH	\$ 196.35	2	\$392.70
122588	LINER,BOTTOM SIDE,WAVE STYLE	EACH	\$ 596.33	3	\$1,789.00
122589	LINER,BOTTOM SIDE,WAVE STYLE	EACH	\$ 554.00	1	\$554.00
122590	LINER,BOTTOM SIDE,WAVE STYLE	EACH	\$ 731.00	1	\$731.00
122618	BLADE,WHIZZER,CCW,3/8",A-36 CERAMIC LINED	EACH	\$ 197.00	16	\$3,152.00
122635	RING,EXTENSION,BOWL,STEEL	EACH	\$ 537.00	4	\$2,148.00
122664	KIT\SEAL.BEARING/SLEEVOIL 4-7/16".CORK/SS.4 PCS	EACH	\$ 117.76	6	\$706.56
122699	BREAKER,2 A,240 VAC,1 POLE,THERMAL RESET	EACH	\$ 15.03	3	\$45.09
122736	REGULATOR,PRESSURE,HIGH FLOW,1/2-30 PSIG,1" NPT	EACH	\$ 593.08	1	\$593.08
122761	COUPLING,PIPE,2",SW,F22,6000 LBS	EACH	\$ 67.33	1	\$67.33
122824	SEAL,SHAFT,OIL,1-1/8"X1-7/8"X1/4",STYLE CRW1,NITRL	EACH	\$ 1.65	1	\$1.65
122876	SET,GASKET,HP	EACH	\$ 95.00	3	\$285.00
122878	POSITIONER,PNEUMATIC,VALVE,3-27 PSI	EACH	\$ 495.10	2	\$990.20
122879	RING,SEAT,VALVE	EACH	\$ 921.48	5	\$4,607.38
122880	RING,BACKUP	EACH	\$ 141.02	5	\$705.12
122881	RING,SEAL,SPR/RADIAL	EACH	\$ 101.75	4	\$407.00
122886	ELEMENT,COUPLING,ADDAX LRC400.270SS SHAFT	EACH	\$ 430.44	2	\$860.87
123119	KIT,HARDWARE,316 SS ADDAX COUPLING	EACH	\$ 199.05	2	\$398.11
123149	SLEEVE,COUPLING,H SERIES,SIZE 2	EACH	\$ 84.68	1	\$84.68
123150	HUB,COUPLING,H SERIES,MINIMUM BORE,STEEL,SIZE 2	EACH	\$ 29.46	1	\$29.46
123208	ADAPTOR,PIPE,ASH,6"X5",DURITE	EACH	\$ 397.67	1	\$397.67
123440	IMPELLER,PUMP,10.50T	EACH	\$ 2,232.00	1	\$2,232.00
123509	SLEEVE\JOURNAL.RADIAL SIDE.REF 135B.MATL 9.REF#1189.	EACH	\$ 747.00	1	\$747.00
123549	GASKET\PRE CUT:END BRACKET::1/16"X10-1/4"X10-7/8"::::	EACH	\$ 110.00	1	\$110.00
123646	PLATE,SEAT,CHANNEL VALVE	EACH	\$ 41.10	4	\$164.40
123669	CIRCUIT BD,OUTPUT,DRIVE	EACH	\$ 855.40	1	\$855.40
123670	CIRCUIT BD,CONTROL,DRIVE	EACH	\$ 1,370.00	1	\$1,370.00
123671	CIRCUIT BD,CPU,DRIVE	EACH	\$ 994.50	1	\$994.50
123971	MOTOR,AC,200-230 V,3/4 HP,1075 RPM,SGL PH,6 A	EACH	\$ 103.24	1	\$103.24
123984	HOSE\WATER:CONVERTAPIPE:REINFORCED SBR:4"X54":75 PS	EACH	\$ 1,393.35	1	\$1,393.35
124192	CONVERTER,I/P,4-20 MA IN,3-15 PSI	EACH	\$ 916.00	1	\$916.00
124193	CONVERTER,I/P,4-20 MA IN,3-15 PSI	EACH	\$ 629.00	1	\$629.00
124228	VALVE\DIAPHRAGM:IPPL:1"::::	EACH	\$ 35.00	1	\$35.00
124230	SHAFT\FAN:CT:111"DBSEX2-1/8" W/ 1/2"KW X 2-3/8" W/ 5/8"KW	EACH	\$ 2,253.00	1	\$2,253.00
124244	VALVE\BALL:1"::::	EACH	\$ 798.72	1	\$798.72
124250	CIRCUIT BD\DIGITAL:	EACH	\$ 564.63	2	\$1,129.26
124287	PUMP\DIAPHRAGM::1 HP/1725 RPM/90 VDC:6 GPM:CAUSTIC	EACH	\$ 1,603.35	1	\$1,603.35
124288	PUMP\DIAPHRAGM::1 HP/1725 RPM/90 VDC:8 GPM:::ACID:	EACH	\$ 2,162.70	1	\$2,162.70
124289	VALVE\SOLENOID:120 VAC:30-150#:	EACH	\$ 61.45	2	\$122.90
124528	FILTER\AIR:COMPRESSOR:::	EACH	\$ 53.04	2	\$106.08
124651	CHAIN\ROLLER:SGL STRAND:#120:1-1/2" PITCH:7/8"X1":	FOOT	\$ 20.09	10	\$200.90
124666	VALVE\SOLENOID:3 WAY:120 VDC:1/4" FNPT:BRASS::1/4" ORIF	EACH	\$ 97.68	1	\$97.68
124674	ELBOW\PIPE:90 DEG:6":SLIP FIT:PVC:SCH 80::	EACH	\$ 20.30	4	\$81.20
124686	CAP\PIPE::3":SLIP FIT:PVC:SCH 80	EACH	\$ 8.95	2	\$17.90
124723	ASSEMBLY\PISTON & ROD:CUSHIONED	EACH	\$ 239.80	1	\$239.80

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INN	Description	UOM	Unit Cost	Qty	Write-off value
124823	PROBE\CONDUCTIVITY::::	EACH	\$ 365.39	1	\$365.39
124861	REDUCER\BELT:DRIVE	EACH	\$ 11,264.57	1	\$11,264.57
124877	SHIM STOCK\STEEL:::005"X2-1/2"X3"	EACH	\$ 20.00	10	\$200.00
124891	DISC\WHIZZER:CERAMIC LINED:CCW	EACH	\$ 4,976.00	1	\$4,976.00
124957	TRANSMITTR\DIFF PRESS:SMART:0-150" H2O:4-20 MA OUT::	EACH	\$ 872.00	1	\$872.00
125074	BRUSH\CARBON:COLLECTOR:1"X1-1/2"X2-3/4":UNIT 2 COLL B	EACH	\$ 26.89	57	\$1,532.61
125094	SLEEVE\SHAFT:BALANCE:::REF# 1880:	EACH	\$ 8,117.00	1	\$8,117.00
125214	ELBOW\PIPE:30 DEG LONG RAD:5":FLGD:DURITE:::	EACH	\$ 970.00	1	\$970.00
125276	PIN\SHEAR:::	EACH	\$ 18.40	2	\$36.80
125555	BRUSH\CARBON:MOTOR:3/8"X3/4"X3/4":	EACH	\$ 9.56	4	\$38.23
125567	TRANSMITTR\PRESSURE:SMART:0-1000 PSI:4-20 MA OUT::	EACH	\$ 761.00	1	\$761.00
125568	KIT\GASKET & SEAL:BFP OIL COOLER::GASKETS,PACKING,LA	KIT		2	\$0.00
125648	CLAMP\PIPE:LEAK REPAIR:3/4":	EACH	\$ 18.13	2	\$36.27
125649	CLAMP\PIPE:LEAK REPAIR:1":	EACH	\$ 24.94	1	\$24.94
125665	PICK-UP\SENSOR.PASSIVE SPEED.1.5" THREAD LENGTH..60V (EACH	\$ 290.00	1	\$290.00
125666	TRANSFORMR\DIFFERENTIAL:NORMAL TEMP LVDT	EACH	\$ 1,150.00	1	\$1,150.00
125668	FILTER\~:OIL\EH:2-1/4"X8-3/4":ALU/STEEL:	EACH	\$ 260.37	2	\$520.74
125669	TRANSMITTR\VACUUM.AJUSTABLE SWITCH POINTS.0-15 PS	EACH	\$ 251.59	1	\$251.59
125670	TRANSMITTR\PRESSURE.ADUSTABLE SWITCH POINTS.0-3000	EACH	\$ 428.57	1	\$428.57
125671	VALVE\SERVO:	ASSEMBL	\$ 4,686.40	2	\$9,372.80
125672	ASSEMBLY\SOLENOID:::	ASSEMBL	\$ 395.00	1	\$395.00
125782	STUD\ADJUSTING:SPRING:2"X37":STEEL:::	EACH	\$ 849.79	1	\$849.79
125821	TIP\NOZZLE:YAW:18":BODY SECTION	EACH		1	\$0.00
125823	TIP\NOZZLE:YAW:18":AIR	EACH		1	\$0.00
125824	TIP\NOZZLE:YAW:::SOFA	EACH		2	\$0.00
125827	TIP\NOZZLE:OIL:18":2 PC	EACH		4	\$0.00
125829	TIP\NOZZLE:AIR:18":	EACH		2	\$0.00
125830	TIP\NOZZLE:ADJUSTABLE:18":AIR	EACH		4	\$0.00
125831	TIP\NOZZLE:YAW:18":FRAME SECTION	EACH		1	\$0.00
125832	TIP\NOZZLE:YAW:18":AIR	EACH		2	\$0.00
125834	TIP\NOZZLE:YAW:18":AIR	EACH		1	\$0.00
125835	TIP\NOZZLE:YAW:18":AIR	EACH		1	\$0.00
125836	TIP\NOZZLE:YAW:18":AIR	EACH		1	\$0.00
125837	TIP\NOZZLE:YAW:18":AIR	EACH		1	\$0.00
125838	TIP\NOZZLE:YAW:18":BODY SECTION	EACH		1	\$0.00
125839	TIP\NOZZLE:YAW:18":BODY SECTION	EACH		1	\$0.00
125843	TIP\NOZZLE:COAL:::PIN SUPPORT #17	EACH		8	\$0.00
125844	SLEEVE\SCANNER:INSERT ASSEMBLY::	EACH		1	\$0.00
125883	MOTOR\AC:120 V:::SGL PH::SYNCHRONOUS::	ASSEMBL	\$ 2,385.00	1	\$2,385.00
125899	CELL\CONDUCTIVITY:(ANALYTICAL SENSOR):::	EACH	\$ 365.00	1	\$365.00
125900	PROBE\FLOW:ULTRA SONIC:100 UHD 555MM	EACH	\$ 17,260.00	1	\$17,260.00
125901	ANALYZER\FLOW:ULTRASONIC	EACH		1	\$0.00
125954	PLATE\THROAT:EL-64 PULVERIZER::	ASSEMBL	\$ 8,450.00	1	\$8,450.00
125989	MOTOR\AC:480 V:::3 PH:::	EACH	\$ 11,877.80	1	\$11,877.80
126006	FAN\SHAFT:MILL EXHAUSTER::	EACH	\$ 3,980.00	1	\$3,980.00
126070	NOZZLE\BURNER:COAL TYPE::	EACH	\$ 3,106.83	1	\$3,106.83
126071	IMPELLER\BURNER:MINI HEAD WITH IMPELLER ROD::::	UNIT	\$ 4,129.99	2	\$8,259.97
126072	CONE\BURNER:DISTRIBUTION::::SS 304	EACH	\$ 1,443.00	3	\$4,329.00
126078	MOTOR\AC:460 V:3 HP:3450 RPM:3 PH:182T::	EACH	\$ 468.48	1	\$468.48
126081	STARTER\MAGNETIC:::SIZE 00:120 VAC::	EACH	\$ 220.00	1	\$220.00
126082	COIL\CLOSING:STARTER:120 VAC:	EACH	\$ 60.34	2	\$120.68
126102	FILTER\OIL:EH:1-1/2"X6":ALU/STEEL:	EACH	\$ 118.18	1	\$118.18
126114	CYLINDER\PNEUMATIC::6" BORE:6-1/2" STROKE:KNIFE GATE	EACH	\$ 593.00	1	\$593.00
126124	GASKET\PRE CUT:CASING:DURLON 7900:1/16"TX10-15/16"ODX	EACH	\$ 2.82	2	\$5.64

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INN	Description	UOM	Unit Cost	Qty	Write-off value
126142	SEAT\RING:	EACH	\$ 3,210.00	1	\$3,210.00
126145	ASSEMBLY\PLUG & STEM:::	EACH	\$ 4,818.00	1	\$4,818.00
126175	ELEMENT\ROTATING:2 GT:IMPELLER 8-3/8" OD 1ST STAGE:9-1	EACH	\$ 14,925.00	1	\$14,925.00
126257	CORD\PATCH:TEST CLIP TO TEST CLIP:24":::MISC. COLORS	KIT	\$ 32.03	1	\$32.03
126261	FOLLOWER\PACKING:STEEL:::	EACH	\$ 73.24	8	\$585.92
126296	PACKING\MOLDED:SET:0.750"X6.625"X8.125"::::	SET	\$ 223.56	1	\$223.56
126311	SHAFT\TRUNION:END CAP, THRUST END	EACH	\$ 2,855.00	1	\$2,855.00
126312	SHAFT\TRUNION:END CAP, FREE END	EACH	\$ 3,440.00	1	\$3,440.00
126314	SET\GASKET:CHANNEL COVER::PARTITION,IRON,COPPER:3 P	SET	\$ 2,954.00	1	\$2,954.00
126315	ADAPTOR\TORQUE-LIMITING:ADJUSTABLE:1/2" FEMALE TO 1	EACH	\$ 108.67	1	\$108.67
126323	CONTROL\NETWORK:REDUNDANT INTERFACE	EACH	\$ 1,872.72	1	\$1,872.72
126324	CONTROL\PROCESSOR:60 SIMPLEX	EACH	\$ 3,731.96	1	\$3,731.96
126325	MODULE\COMMUNICATN:FIELD BUS	EACH	\$ 1,015.95	1	\$1,015.95
126326	CHANNEL\ISOLATED:16 DIN VOLTAGE MONITOR:	EACH	\$ 893.03	1	\$893.03
126327	CHANNEL\ISOLATED:VMON D1 + EXTERNAL SOURCE DO:	EACH	\$ 881.62	1	\$881.62
126328	CHANNEL\ISOLATED:8 INPUT:0-20 MA	EACH	\$ 1,250.25	1	\$1,250.25
126330	MODULE\COMMUNICATN:2 KM FIELD BUS	EACH	\$ 1,255.86	1	\$1,255.86
126331	CABLE\CONNECTING:TYPE 4:1 METER:::	EACH	\$ 70.30	1	\$70.30
126332	CABLE\CONNECTING:TYPE 4:3 METERS:::	EACH	\$ 104.51	3	\$313.53
126333	CABLE\CONNECTING:TYPE 1:1 METER:::	EACH	\$ -	1	\$0.00
126335	CABLE\CONNECTING:TYPE 1:3 METERS:::	EACH	\$ 63.62	1	\$63.62
126336	TERMINAL\CRIMP:FBM207:::::	EACH	\$ 161.30	1	\$161.30
126337	TERMINAL\CRIMP:FBM201:::::5 A	EACH	\$ 329.94	1	\$329.94
126338	TERMINAL\CRIMP:FBM201:::::	EACH	\$ 118.14	1	\$118.14
126353	CARTRIDGE\INK:PRINTER:CYAN:	EACH	\$ 35.99	1	\$35.99
126354	CARTRIDGE\INK:PRINTER:MAGENTA:	EACH	\$ 35.99	1	\$35.99
126355	CARTRIDGE\INK:PRINTER:YELLOW:	EACH	\$ 35.99	1	\$35.99
126356	CARTRIDGE\INK:PRINTER:BLACK:	EACH	\$ 38.99	1	\$38.99
126365	DETECTOR\FLAME:INFRARED::::	EACH	\$ 1,029.38	1	\$1,029.38
126366	CONTROLLER\ELECTRICAL:VARIABLE FREQ. DRIVE:::	EACH	\$ 589.05	1	\$589.05
126371	BAR\TRIP:FEED TUBE ASSY::STEEL	EACH	\$ 295.08	1	\$295.08
126388	ACTUATOR\MANUAL:1/4 TURN:	EACH	\$ 224.56	1	\$224.56
126402	CYLINDER\CALIBRATION:SEALED TOP:4000 ML	EACH	\$ 206.00	1	\$206.00
126403	GASKET\SPIRAL WOUND::STYLE R::SS:.175"X10.420"X11.420"::	EACH	\$ 15.75	1	\$15.75
126404	MOUSE\COMPUTER:TRACKBALL	EACH		1	\$0.00
126407	VALVE\RELIEF:SAFETY:1"::BRONZE BODY:MNPT/FNPT:200# S	EACH	\$ 198.52	1	\$198.52
126421	GASKET\PRE CUT:DOOR:RUBBER/HI-TEMP:1-7/16"X24"X25-1/2"	EACH	\$ 152.00	1	\$152.00
126472	TRAP\STEAM::::SS:600 PSIG::3/4" FNPT	EACH	\$ 310.84	1	\$310.84
126486	KIT\O-RING:COOLER GASKET:::7 PC	KIT	\$ 486.00	2	\$972.00
126523	OZONATOR\~:NOX ANALYZER	EACH	\$ 455.00	1	\$455.00
126558	COLLAR\BEARING:JOURNAL:::	EACH	\$ 325.95	1	\$325.95
126731	ASSEMBLY\POTENTIOMETER:ADAPTER FEEDBACK	ASSEMBL	\$ 749.42	1	\$749.42
126818	WASHER\FLAT::5/8" SCREW:COPPER:.095" T:1-3/4" OD:::	EACH		13	\$0.00
126855	SWITCH\PRESSURE.ADJUSTABLE SWITCH POINTS.0-150 PSI.4-	EACH	\$ 457.03	1	\$457.03
126865	ASSEMBLY\LINK:REACH ROD	EACH	\$ 173.00	1	\$173.00
126867	THERMOCOUP\TYPE J:::::	EACH		1	\$0.00
126876	KIT\CONTACT:::SIZE 4 STARTER:	SET	\$ 298.70	1	\$298.70
126928	ASSEMBLY\DRIVE:FEEDER:::	ASSEMBL	\$ 4,425.00	1	\$4,425.00
1287127	SEAT\RING..316-A FMS 20B64.2".	EACH	\$ 121.00	1	\$121.00
3000039	KIT\REPAIR.REGULATOR.6 PCS.TYPE 95 H-107/H-109.	EACH	\$ 261.00	1	\$261.00
3000042	BUSHING\GUIDE.....	EACH		2	\$0.00
3000043	GASKET\PRE CUT..GRAPHITE.....	EACH		2	\$0.00
3000044	SEAT\RING....	EACH		1	\$0.00
3000045	ASSEMBLY\PLUG & STEM...	EACH		1	\$0.00

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INN	Description	UOM	Unit Cost	Qty	Write-off value
3000058	WASHER\BELLEVILLE.1/2" BOLT..0645" T.1-1/8" OD.	EACH	\$ 2.90	400	\$1,160.00
3000222	SWITCH\PRESSURE.0-80" H2O..	EACH	\$ 171.60	1	\$171.60
3000313	KIT\TERMINATION..	EACH	\$ 69.81	1	\$69.81
3000315	KIT\REPAIR.CYLINDER/HYDRAULIC..PISTON.	EACH	\$ 170.91	8	\$1,367.28
3000316	CYLINDER\HYDRAULIC....	EACH	\$ 3,290.69	1	\$3,290.69
3000323	LAMP\LED.INDICATOR.125 VDC.....GREEN	EACH	\$ 39.96	1	\$39.96
3000324	LAMP\LED.INDICATOR.125 VDC.....RED	EACH	\$ 39.96	2	\$79.92
3000325	LAMP\LED.INDICATOR.125 VDC.....AMBER	EACH	\$ 39.96	4	\$159.84
3000326	RELAY\MOTOR.MANAGEMENT PROTECTIVE.2300 V.GE 369	EACH	\$ 2,844.77	1	\$2,844.77
3000327	RELAY\MOTOR.MANAGEMENT PROTECTIVE.2300 V.GE 369 W	EACH	\$ 3,524.94	1	\$3,524.94
3000338	EXTENSION\~.HIGH TEMPERATURE.3/4"D X 60.5"L	EACH	\$ 843.00	1	\$843.00
3000339	VALVE\RELIEF.SAFETY.1"....SW.2350 SET PRESS..WATER, 480 D	EACH	\$ 2,245.90	1	\$2,245.90
3000346	HOSE\STEEL BRAID..1/2" X 96"..SS SINGLE BRAID.304SS MPT E	EACH	\$ 128.00	1	\$128.00
3000390	DRUM\BALANCE...	EACH	\$ 11,429.00	1	\$11,429.00
3000408	BASE\SOLENOID VALVE.	EACH		1	\$0.00
3000450	CAGE\VALVE.LINEAR.2" ..	EACH	\$ 473.00	1	\$473.00
3000629	WASHER\FLAT..3" BOLT..3/8" T.5-3/8" OD...	EACH		2	\$0.00
3000630	NUT\HEX.HEAD.3".....	EACH	\$ 38.00	2	\$76.00
3000631	STUD\HEAD.3"-8X14-9/16"	EACH	\$ 938.00	2	\$1,876.00
3000632	SEAL\OIL..3" ..REF # 1803	EACH	\$ 75.00	1	\$75.00
3000636	KIT\REPAIR.INTAKE VALVE...	KIT	\$ 343.56	7	\$2,404.91
3000693	VALVE\GATE.RISING STEM.3".CLASS 1500.STEEL BODY WCB.	EACH	\$ 2,273.04	1	\$2,273.04
3000779	VALVE\SOLENOID.4 WAY.110-120/60.....	EACH	\$ 217.75	2	\$435.50
3000782	CLAMP\SPRING.JOURNAL PRESSURE..	EACH	\$ 958.70	1	\$958.70
3000847	VALVE\GATE..1"....A105 BODY.SW.800 # RATING..	EACH	\$ 45.04	1	\$45.04
3000920	CELL\CONDUCTIVITY....CELL CONSTANT=.01.	EACH	\$ 355.00	1	\$355.00
3000922	CELL\CONDUCTIVITY....CELL CONSTANT=1.	EACH	\$ 396.93	1	\$396.93
3001026	CHANNEL\ISOLATED.FBM241C, CSENSE..	EACH	\$ 913.64	1	\$913.64
3001030	TERMINAL\CRIMP.FBM207.....15-60VDC.	EACH	\$ 167.45	1	\$167.45
3001031	TERMINAL\CRIMP.FBM241.+5 RELAY OUT.....125 V.	EACH	\$ 334.89	1	\$334.89
3001520	OVERLOAD\THERMAL.FH29...	EACH		3	\$0.00
3001528	RELAY\OVERVOLTAGE.....	EACH		1	\$0.00
3001531	HOLDER\BRUSH..1"X1-1/2"	EACH		4	\$0.00
3001532	BUSHING\GUIDE.....	EACH		1	\$0.00
3001533	THERMOCOUP\TYPE J.SPRING LOADED.1/4" OD.23" L...	EACH	\$ 141.00	1	\$141.00
3001589	ACTUATOR\PNEUMATIC.SPRING RETURN VALVE...	EACH	\$ 198.00	1	\$198.00
3001622	GATE\SLIDE.MANUAL.8"....	EACH	\$ 1,693.00	2	\$3,386.00
3001633	IGNITOR\OIL.ATOMIZER.F/6".	EACH	\$ 1,950.00	2	\$3,900.00
3001655	RING\RETAINING.....	EACH	\$ 53.00	3	\$159.00
3001703	CABLE\BRUSH.MILL SWEEPS.3/4"X10"	EACH	\$ 39.00	16	\$624.00
3001794	ASSEMBLY\GEAR.MODULE..	ASSEMBLY		1	\$0.00
3001795	ASSEMBLY\MOTOR.1.0 N.M..60 HZ, 475 OHMS, 4 MFD.	ASSEMBLY		1	\$0.00
3001828	ROD\SUPPORT.RAPPER.1-7/8"X19"..STEEL.	EACH		1	\$0.00
3001829	ASSEMBLY\PLUG & STEM...	ASSEMBLY		1	\$0.00
3001830	CAGE\VALVE....	EACH		1	\$0.00
3001831	SEAT\RING....	EACH		1	\$0.00
3001999	FILTER\LIGHT.CORREL WHEEL W/ OPTICAL LENS...FOR CO 48	EACH	\$ 999.50	1	\$999.50
3002006	HOUSING\BEARING.LOWER AND PUMP..	EACH	\$ 9,201.99	1	\$9,201.99
3002012	ELEMENT\FILTER.AIR.100-12-DXE	EACH	\$ 24.54	9	\$220.85
3002013	ELEMENT\FILTER.AIR.100-12-BXE	EACH	\$ 30.98	9	\$278.80
3002109	CYLINDER\PNEUMATIC..6" BORE..	EACH	\$ 641.00	1	\$641.00
3002193	SWITCH\LIMIT.SNAP ACTION.....	EACH	\$ 361.75	2	\$723.50
3002267	MANIFOLD\TRANSMITTER.THREE-VALVE.SS 316	EACH		1	\$0.00
3002369	KIT\SEAL.CYLINDER..	KIT	\$ 489.00	2	\$978.00

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INN	Description	UOM	Unit Cost	Qty	Write-off value
3002516	PICK-UP\SENSOR.ZERO VELOCITY.1.5" THREAD LENGTH.MAG	EACH	\$ 245.00	2	\$490.00
3002724	SWITCH\PROXIMITY.LOWER.....	EACH	\$ 200.66	1	\$200.66
3002725	SWITCH\PROXIMITY.UPPER.....	EACH	\$ 200.67	1	\$200.67
3002880	FAN\MUFFIN.W/ ALARM...115 VAC..	EACH	\$ 472.17	1	\$472.17
3002897	VALVE\DIRECTIONAL.4-WAY -HAND.1/2".....AIR OPERATED	EACH	\$ 112.72	2	\$225.44
3002972	ASSEMBLY\BLOWER.	ASSEMBL	\$ 2,624.00	1	\$2,624.00
3002973	CLOSER\DOOR.ARM POT BELLY.180 DEGREE	EACH	\$ 456.86	2	\$913.72
3003038	THERMOCOUP\TYPE J.SPRING LOADED.1/4" OD.12" L...W/ TER	EACH	\$ 75.00	1	\$75.00
3003039	STEM\VALVE.PLUG..SS..	EACH		1	\$0.00
3003040	GASKET\PRE CUT..GRAFOIL.4".....	EACH	\$ 22.50	1	\$22.50
3003041	SEAT\RING..SS..	EACH		1	\$0.00
3003084	BRUSH\CARBON.EXCITER.1.125"-BX1.5X3.5".	EACH	\$ 24.36	100	\$2,436.00
3003085	HOLDER\BRUSH.EXCITER.	EACH		5	\$0.00
3003165	GATE\SLIDE.BURNER..SS...	EACH		1	\$0.00
3003255	GASKET\PRE CUT.ASH LINE 6".NUVAFLEX.....	EACH	\$ 26.46	4	\$105.83
3003268	BEARING\THRUST.RETAINING CAP, ROLL JOURNAL....	EACH	\$ 230.00	1	\$230.00
300329	RELAY\FEEDER.PROTECTIVE.2300 V.GE MULTILIN MIFII	EACH	\$ 884.25	1	\$884.25
3003428	BOLT\HEX SOC HD.SHOULDERED.1"-8X8".....	EACH	\$ 19.89	5	\$99.46
3003444	BLADE\DEFLECTOR.CLASSIFIER..	EACH		5	\$0.00
3003446	HOSE\STEEL BRAID..1/4" X 60".SS 304, 1600 PSI @ 200 DEG.1/4"	EACH	\$ 50.38	1	\$50.38
3003460	VALVE\SOLENOID.4 WAY W/MANUAL OPERATOR..1/4".....	EACH	\$ 91.44	1	\$91.44
3003466	ROD\CONNECTING.BECK DRIVE.3/4"-16X9-1/4".SS.LH/RH THRE	EACH	\$ 36.20	1	\$36.20
3003575	KEY\PINION DRIVE GEAR..1-1/8"X1-1/8"X5-27/32"	EACH		1	\$0.00
3003576	NUT\~.PINION DRIVE GEAR.3-1/2" SLOTTED HEAVY....	EACH		2	\$0.00
3003591	STRAINER\FUEL.SIMPLEX.3/8" PIPE SIZE.STEEL BODY W/ SS B	EACH		1	\$0.00
3003618	SET\SHIM.THRUST BEARING..	SET	\$ 182.40	1	\$182.40
3003919	SEAL\MECHANICAL..2.875" SHAFT.....UC-3250-5X4A	EACH	\$ 4,528.00	1	\$4,528.00
3004046	KIT\REPAIR.CYLINDER.2 PCS.2" VITON SEAL.	KIT		2	\$0.00
3004052	FILTER\~.SCREEN.7-1/2"X12-1/2".ALU.	EACH	\$ 14.62	4	\$58.48
3004053	ASSEMBLY\SPRING.BRUSH HOLDER.4.0# (4"X0.750"X0.500")	EACH	\$ 38.14	4	\$152.56
3004077	POSITIONER\PNEUMATIC.VALVE.SINGLE ACTING	EACH	\$ 1,665.00	1	\$1,665.00
3004175	CIRCUIT BD\RELAY.ANNUNCIATOR.	EACH	\$ 318.00	1	\$318.00
3004244	TRANSMITTR\PRESSURE.ABSOLUTE.0-30 PSI.4-20 MA OUT.1/2"	EACH	\$ 1,612.00	1	\$1,612.00
3004325	CABLE\IFM..6".SS FLEX	EACH	\$ 307.62	1	\$307.62
3004444	SEAL\MECHANICAL.CARTRIDGE SEAL, 8B-1.SIZE 4"..TUNGST	EACH	\$ 8,889.00	1	\$8,889.00
3004445	SEAL\MECHANICAL.8B-1.4-3/8"..TUNGSTEN CARBIDE/SS 316...	EACH	\$ 9,456.00	2	\$18,912.00
3004506	WASHER\FLAT.HEAD BOLT.2" BOLT..1/4" T.3-3/4" OD...	EACH	\$ 34.50	21	\$724.50
3004641	CONVERTER\ETHERNET TO CAT 5.	EACH	\$ 219.95	1	\$219.95
3004643	POWER SUPPLY.DIN RAIL MOUNTED..40 A.24 VDC..	EACH	\$ 120.00	1	\$120.00
3004648	SET\TRIM.RECIRC. LINE VALVE	EACH	\$ 4,307.00	1	\$4,307.00
3004649	FILTER\AIR..16-1/4"ROUND, 12-1/2" TALL...	EACH	\$ 425.00	1	\$425.00
3004652	THERMOCOUP\TYPE J.SPRING LOADED.1/4" OD.38" L...	EACH	\$ 99.00	1	\$99.00
3004654	BEARING\PILLOW BLOCK.SLEEVOIL TYPE R.4-7/16" SHAFT....T	EACH		2	\$0.00
3004753	CAGE\VALVE.LINEAR	EACH	\$ 1,686.00	1	\$1,686.00
3004754	GASKET\SPIRAL WOUND.....175"X2.25"X2.75"..	EACH	\$ 36.50	2	\$72.99
3004755	GASKET\SPIRAL WOUND.....1.75"X2.66"X3.44"..	EACH	\$ 105.00	1	\$105.00
3004757	GASKET\PRE CUT.INSULATOR..1/4"TX10-5/8"X12-1/4".....BOTTO	EACH	\$ 16.00	1	\$16.00
3004758	GASKET\PRE CUT.INSULATOR..1/4"TX9-3/4"X12-1/4".....TOP	EACH	\$ 18.00	1	\$18.00
3004803	BUSHING\DRIVE.NUT.IK	EACH	\$ 270.34	1	\$270.34
3004847	PIPE\PLASTIC.8".PVC.SCH 80.	FOOT	\$ 14.41	15	\$216.14
3004978	GASKET\PRE CUT.PARTITION,INNER,OUTER....."D" HTR 99H789	SET	\$ 2,169.00	1	\$2,169.00
3005047	GASKET\SPIRAL WOUND.1-1/2" PIPE.STYLE R.900 PSI.304SS/FL	EACH	\$ 8.03	1	\$8.03
3005112	CAGE\VALVE...SS.	EACH	\$ 4,013.00	1	\$4,013.00
3005113	RING\RETAINING...SS..	EACH	\$ 828.00	1	\$828.00

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INN	Description	UOM	Unit Cost	Qty	Write-off value
3005305	FLANGE\PIPE..RAISED FACE.2-1/2".300 LBS.A105.SW..8 BOLT.X	EACH	\$ 19.86	2	\$39.72
3005319	FLANGE\PIPE.SLIP ON.RAISED FACE.3/4".300 LBS.A105...4 BOL	EACH	\$ 15.46	2	\$30.92
3005322	FLANGE\PIPE.THREADED.RAISED FACE.1".150 LBS.A105...4 BO	EACH	\$ 13.97	2	\$27.93
3005324	FLANGE\PIPE..RAISED FACE.1".300 LBS.A105.SW..4 BOLT.XH B	EACH	\$ 11.51	4	\$46.04
3005430	PUMP\VANE.V10 SERIES...KIDNEY PUMP.	EACH	\$ 514.50	1	\$514.50
3005431	PUMP\PISTON.PVH057	EACH	\$ 2,299.16	1	\$2,299.16
3005807	FILTER\FUEL.IGNITOR ELEMENT...	EACH	\$ 55.00	1	\$55.00
3005808	FILTER\FUEL.HOUSING HYDRAULIC...	EACH	\$ 215.00	1	\$215.00
3005810	FILTER\AIR.IGNITOR....	EACH	\$ 38.60	1	\$38.60
3006253	GASKET\PRE CUT..SOFT IRON.1/32"X1-1/2"X2-7/16".....	EACH	\$ 2.50	2	\$5.00
3006258	FILTER\OIL...3-3/4"IDX6"ODX17"L.STEEL/PAPER.40 MICRON	EACH	\$ 425.50	4	\$1,702.00
3006376	SHOE\THRUST BRG.FLUID DRIVE.STEEL...	EACH	\$ 265.00	12	\$3,180.00
3006779	FILTER\OIL.COMPRESSOR...	EACH	\$ 144.71	6	\$868.26
3006840	PULLEY\SHAFT.TAKE-UP KIT..	EACH	\$ 5,100.00	1	\$5,100.00
3006976	ASSEMBLY\LIMTORQUE.DECLUTCH L120-20	EACH	\$ 569.00	1	\$569.00
3007111	VALVE\SIGHT GLASS..3/4"MNPTX1/2"FNPTX1/2" FNPT.INCLUD	SET	\$ 351.00	1	\$351.00
3007474	SEAL\OIL...2.25"IDX4"ODX7/16"W..	EACH	\$ 8.00	1	\$8.00
3007491	VALVE\RELIEF.SAFETY.3/4"MNPT IN 3/4"FNPT OUT..BRONZE H	EACH	\$ 179.69	1	\$179.69
3007551	GASKET\PRE CUT.GENERATOR.CORK.4-1/4"ODX6-14"OD..RECT	EACH	\$ 21.00	4	\$84.00
3007586	CAP\CERAMIC...090" DIA. X 1/8" THICK	EACH	\$ 2.80	2	\$5.60
3007587	CAP\CERAMIC...1.219" DIA. X 1/8" THICK	EACH	\$ 3.50	2	\$7.00
3007714	KIT\FASTENER.FAN BLADE	EACH	\$ 790.00	1	\$790.00
3007831	KIT\SEPARATOR.	EACH	\$ 1,799.00	2	\$3,598.00
3007851	BRACKET\TROLLEY.	EACH	\$ 1,329.23	1	\$1,329.23
3007855	TRANSDUCER\PRESSURE.OIL...	EACH	\$ 240.70	3	\$722.10
3008067	ASSEMBLY.MOTOR.14 N-M	EACH	\$ 3,441.00	1	\$3,441.00
3008424	MONITOR.PROX/SEIS	EACH	\$ 2,612.00	1	\$2,612.00
3008512	VALVE\SIGHT GLASS..3/4"MNPTX3/4"FNPT"X1/2"FNPT.	EACH	\$ 306.00	1	\$306.00
3008570	COUPLING\JAW.HALF.2-1/8" BORE 1/2" KEYWAY	EACH	\$ 76.13	2	\$152.26
3008571	COUPLING\JAW.HALF.1-1/4" BORE 5/16" KEYWAY	EACH	\$ 76.13	2	\$152.26
3008572	INSERT\COUPLING.JAWED RG5-L9..BUNA-N..	EACH	\$ 14.64	2	\$29.28
3008706	INDICATOR\FLOW.ROTARY..2" WIDOW DIA..3/4" NPT FEMALE	EACH	\$ 94.55	1	\$94.55
3008780	CIRCUIT BD\CONTROLLER.SYSTEM OPERATION INTERFACE	EACH	\$ 3,750.00	1	\$3,750.00
3010261	CASING\PUMP.150 FLAT FACE.D.I...	EACH	\$ 4,794.67	1	\$4,794.67
3010262	IMPELLER\PUMP..5 VANE.7-1/2" DIA (TRIMMED).SA W/TFL O-F	EACH	\$ 495.00	1	\$495.00
3010574	GASKET\PRE CUT.LEAK OFF.STEEL.1/16"X1-1/2"X2".....	EACH	\$ 5.50	1	\$5.50
3010803	PUMP\DIAPHRAGM.BTC.3900RPM.....	EACH	\$ 263.00	1	\$263.00
3010926	ELEMENT\FILTER.HYDRAULIC.MICROGLASS MEDIA.3 MICRO	EACH	\$ 329.84	4	\$1,319.36
3010968	PROBE\SPEED.PICK UP. 1-1/2" THREAD	EACH	\$ 199.38	1	\$199.38
3010970	TRANSDUCER\CURRENT.LINEAR..	EACH	\$ 1,052.42	1	\$1,052.42
3010971	TRANSDUCER\CURRENT.LINEAR,VARIABLE,DIFFERENTIAL..	EACH	\$ 3,718.00	1	\$3,718.00
3010973	CABLE.SERVO,STD.....HI-TEMP	EACH	\$ 202.00	1	\$202.00
3010974	CYLINDER\HYDRAULIC.5X2X5.5 LG...	EACH	\$ 2,215.94	1	\$2,215.94
3010975	CYLINDER\~.4" BORE, 2" STROKE	EACH	\$ 1,881.65	1	\$1,881.65
3010976	CYLINDER\~.4 BORE, 2" ROD, 7" STROKE..	EACH	\$ 3,470.36	1	\$3,470.36
3010977	CYLINDER\~.4.0 BOREX4.5" STROKE..	EACH	\$ 2,254.20	1	\$2,254.20
3010978	CABLE\~.GO SWITCH.....	EACH	\$ 101.00	1	\$101.00
3010979	CABLE\~.AC/DC SOLENOID DIN W/ MOV....0-125V.	EACH	\$ 79.18	1	\$79.18
3010980	VALVE\SERVO.20 GPM @ 1000 PSID	EACH	\$ 3,031.08	1	\$3,031.08
3010981	VALVE\SOLENOID.2 WAY NC.24 VDC.....CARTRIDGE..	EACH	\$ 170.19	1	\$170.19
3010982	VALVE\SOLENOID.2 WAY NO.24 VDC.....CARTRIDGE..	EACH	\$ 253.00	2	\$506.00
3011444	PUMP\GEAR.BLOWER 36 GL...750" SHAFT.....VAPOR EXTRACT	EACH	\$ 2,832.00	1	\$2,832.00
3011445	PUMP\GEAR.BLOWER 47GL.....875" SHAFT..VAPOR EXTRACT	EACH	\$ 2,899.00	1	\$2,899.00
3011645	KIT\SEPARATOR.OIL	EACH	\$ 2,277.78	2	\$4,555.56

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3011646	VALVE\DRAIN.AUTOMATIC	EACH	\$ 575.63	1	\$575.63
3011650	SHAFT\PUMP.7 STAGE.4X5-10B.420SS NOT-HDRN.122.GOULD 3	EACH	\$ 5,966.00	1	\$5,966.00
3011651	SLEEVE\SHAFT.PUMP.4X5-10B.420SS NOT-HRDN.126.GOULD 3	EACH	\$ 945.00	1	\$945.00
3011652	SEAL\MECHANICAL.GOULD 3355.2.375".8B1 HSP-1006733...REF	EACH	\$ 3,531.00	1	\$3,531.00
3011653	BEARING\THRUST.BALL BEARING....GOULD 3355	SET	\$ 725.00	1	\$725.00
3011654	KEY\SHAFT SLEEVE.GOULD 3355	EACH	\$ 8.50	1	\$8.50
3011655	BUSHING\BEARING.END SUCTION..CARBON GRAPH. NICKEL	EACH	\$ 1,113.00	1	\$1,113.00
3011751	RING\SCRAPER.OIL...	EACH	\$ 372.03	1	\$372.03
3011761	MOTOR\AC.480 V.1/3 HP.1140 RPM IN/228 RPM OUT.3 PH...	EACH	\$ 3,960.29	1	\$3,960.29
3011785	VALVE\BALL.3 PIECE.1" ..A105 BODY.FNPT.1000,CWP.316SS.	EACH	\$ -	2	\$0.00
3011987	ELEMENT\FILTER.DESICCANT...	EACH	\$ 195.52	2	\$391.04
3012296	BEARING\BALL.DBL ROW, ANGULAR CONTACT.....	EACH	\$ 139.17	1	\$139.17
3012349	ASSEMBLY\PLUG & STEM.BAL.2-5/16" PORT, 440HT/316.1L5000	EACH	\$ 4,440.00	1	\$4,440.00
3012350	RETAINER\DISC..2".STEEL	EACH	\$ 277.00	1	\$277.00
3012351	DISC\VALVE.PLUG.2"...	EACH	\$ 35.90	1	\$35.90
3012353	VALVE\CHECK.CAL GAS.1/4".....320YC PROBES	EACH	\$ 226.67	1	\$226.67
3012674	GASKET\PRE CUT.GAUGE GLASS.AP-6500.1/16" X 1" X 14.937....	EACH	\$ 3.96	8	\$31.66
3012819	CIRCUIT BD\INPUT.VOLTAGE	EACH	\$ 740.00	1	\$740.00
3012820	CIRCUIT BD\~.STATUS.	EACH	\$ 340.00	1	\$340.00
3012821	CIRCUIT BD\OUTPUT.RELAY	EACH	\$ 565.00	1	\$565.00
3012822	CIRCUIT BD\OUTPUT.CURRENT-MODEL 8832	EACH	\$ 1,670.00	1	\$1,670.00
3012965	COUPLING\PIPE.FLEXMASTER.....	EACH	\$ 93.00	1	\$93.00
3012966	BEARING\JOURNAL.79-PP-2023	SET	\$ 1,512.00	1	\$1,512.00
3012967	BEARING\JOURNAL.79-PP-2024	SET	\$ 1,512.00	1	\$1,512.00
3012968	RING\SPACER.THRUST SPLIT.2 PIECE...	SET	\$ 416.00	2	\$832.00
3012969	RING\IMPELLER.WEAR..410SS HT.OD OVERSIZED (+.060").	EACH	\$ 770.00	1	\$770.00
3012970	RING\CASING.WEAR.410SS HT TO 262-302 BRINELL.	EACH	\$ 880.00	1	\$880.00
3012971	FLINGER\OIL...BRONZE..	EACH	\$ 190.00	1	\$190.00
3012972	SHAFT\PUMP..2'-3/4" L.410SS..	EACH	\$ 1,327.00	1	\$1,327.00
3012973	GASKET\COUPLING.CONVERTER HEAD.SILICONE GRADE E.30	EACH	\$ 559.00	2	\$1,118.00
3013003	ASSEMBLY\STEM.PLUG & VALVE.2, 1 PORT.	EACH	\$ 1,017.00	1	\$1,017.00
3013031	GEAR\~.BRONZE.....GEAR PUMP (CCW).	EACH	\$ 2,363.00	1	\$2,363.00
3013164	ASSEMBLY\SPARK PLUG.OIL IGNITOR.1/2" X 6"	EACH	\$ 372.48	3	\$1,117.45
3013213	MOTOR\AC.480 V.40 HP.3540 RPM.3 PH.324TS...	EACH	\$ 2,923.56	1	\$2,923.56
3013277	ACTUATOR\ELECTRIC.ROTARY DRIVE.1500 LB-FT.120V.SGL P	EACH	\$ 10,390.00	1	\$10,390.00
3013314	CABLE\EXTENSION.4.0 METRE.11 MM	EACH	\$ 173.00	1	\$173.00
3013315	PROBE\POSITION.THRUST.11MM..1/2-20	EACH	\$ 359.00	1	\$359.00
3013316	PROBE\PROXIMITY..8MM, 3/8-24 UNF (10 CS LENGTH)	EACH	\$ 268.00	1	\$268.00
3013317	PROBE\PROXIMITY..8MM, 3/8-24 UNF, 20 CS LENGTH	EACH	\$ 268.00	1	\$268.00
3013867	PUMP\HYDRAULIC...	EACH	\$ 1,426.58	1	\$1,426.58
3013930	KIT\REBUILD.CHECK VALVE.4 PCS...	EACH	\$ 175.00	1	\$175.00
3013954	SEAL\SHAFT.RING.2-1/2" ..BRASS..ACTUATOR/GOV	EACH	\$ 104.45	11	\$1,148.95
3013955	VALVE\BALL..1/2" .STD PORT.A105 BODY.NPT ENDS.1500 PSI R	EACH	\$ 154.00	1	\$154.00
3014246	ELEMENT\FILTER.....01.NL250.10VG.16	EACH	\$ 160.86	2	\$321.72
3014257	SEAL\MECHANICAL..3".SINGLE SEAL, TYPE 1.TUNGSTEN CAR	EACH	\$ 2,111.50	1	\$2,111.50
3014259	ELEMENT\COUPLING.WRAPFLEX.10R..W/ COVER ASSY	EACH	\$ 37.21	1	\$37.21
3014260	ELEMENT\COUPLING.WRAPFLEX.20R..W/ COVER ASSY	EACH	\$ 53.00	2	\$106.00
3014318	LINER\BEARING.RADIAL.....5CHTA-8	SET	\$ 1,326.00	1	\$1,326.00
3014321	PUMP\SCREW.OIL..	EACH	\$ 1,197.00	1	\$1,197.00
3014327	COLLAR\THRUST.....5CHTA-8	EACH	\$ 1,025.00	2	\$2,050.00
3014328	KIT\REBUILD.3/4" & 1" VALVE....	EACH	\$ 127.60	1	\$127.60
3014329	KIT\REBUILD.1/2" VALVE....	EACH	\$ 98.50	2	\$197.00
3014341	PMT\42 SERIES.42I NOX ANALYZER	EACH	\$ 2,250.00	1	\$2,250.00
3014351	KIT\FILTER.SBAC BOOSTER.	EACH	\$ 1,612.96	1	\$1,612.96

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BR 1 & 2 Inventory

INN	Description	UOM	Unit Cost	Qty	Write-off value
3014352	KIT\VALVE.SBAC BOOSTER	EACH	\$ 10,054.36	1	\$10,054.36
3014353	SET\BELT.SBAC BOOSTER	EACH	\$ 114.69	5	\$573.45
3014356	KIT\PISTON.RING.SBAC BOOSTER	EACH	\$ 5,157.57	1	\$5,157.57
3014357	KIT\PACKING.SERVICE.SBAC BOOSTER	EACH	\$ 10,643.50	1	\$10,643.50
3014372	KIT\BUSHING.1" ROD GLAND KIT.VITON.	EACH	\$ 91.28	1	\$91.28
3014373	KIT\SEAL.4" PISTON & BODY.VITON..	EACH	\$ 137.60	1	\$137.60
3014445	NUT\~.TORQUE W/ HARDEND WASHER.2", 8 TPI..ASTM-A193-B	EACH	\$ 334.95	2	\$669.90
3014446	NUT\~.TORQUE W/ HARDEND WASHER.3", 8 TPI..ASTM-A193-B	EACH	\$ 789.60	1	\$789.60
3014481	O-RING\~.BALANCE DRUM...REF 456.	EACH	\$ 59.00	2	\$118.00
3014482	SHIM\~.BALANCE DRUM (RET RGS).DWG 299	EACH	\$ 116.00	2	\$232.00
3014483	CLIP\LOCKING.BALANCE SLEEVE BOLTS..DWG 241	EACH	\$ 13.50	14	\$189.00
3014484	SHIM\~.THRUST COLLAR.DWG 257	EACH	\$ 9.75	4	\$39.00
3014485	SHIM\~..DWG 257	EACH	\$ 9.25	6	\$55.50
3014564	ASSEMBLY\SHAFT.SQUARE DRIVE IK.SST L	EACH	\$ 2,066.31	1	\$2,066.31
3014771	GASKET\PRECUT.CYLINDER.COPPER.8"X8-1/2"..CIRCULAR...	EACH	\$ 39.49	10	\$394.93
3014885	KIT\REPAIR.CYLINDER.HYDRAULIC, 4"...	EACH	\$ 311.18	1	\$311.18
3014890	MOTOR\AC.115/208/230V.1/6 HP.1140 RPM.SGL PH...50/60 HZ.SS	EACH	\$ 451.00	1	\$451.00
3014895	VALVE\SOLENOID.2 WAY NC.125 VDC (-20).SV2 SERIES..CART	EACH	\$ 213.00	1	\$213.00
3014896	VALVE\SOLENOID.2 WAY NC.125 VDC (-20)...SV3 SERIES..CAR	EACH	\$ 254.00	1	\$254.00
3015183	FILTER\BREATHER.HYDROGUARD.4.1"DIA X 9.75"H.POLYCAR	EACH	\$ 102.38	7	\$716.66
3015184	KIT\VALVE.SELF SEAL. OIL GUN	KIT	\$ 100.00	1	\$100.00
3015250	GASKET\PRECUT.....NO.11, DWG #23-B-6896.	EACH	\$ 270.00	2	\$540.00
3015251	GASKET\PRECUT.....NO.12, DWG 23-B-6896.	EACH	\$ 413.00	2	\$826.00
3015252	GASKET\PRECUT.....NO. 13, DWG # 23-B-6896.	EACH	\$ 130.00	2	\$260.00
3015253	GASKET\PRECUT...15" X 20" X.094 THICK..RECTANGLE..NO. 14	EACH	\$ 78.00	2	\$156.00
3015331	BELT\V.NOTCHED TYPE.5/8" X 83"..	EACH	\$ 21.14	2	\$42.28
3015333	PACKING\~.GESTRA ZK313..ITEM 6.2	EACH	\$ 102.00	2	\$204.00
3015334	KIT\PACKING.SOFT GOODS/ ZK313/20 2" VLV.ZK313 LOWER G	KIT	\$ 679.00	1	\$679.00
3015335	SET\TRIM.ZK 313 COMPLETE TRIM SET.CV 8.4 LINEAR, 20MM	SET	\$ 5,077.00	1	\$5,077.00
3015549	VALVE\SOLENOID.3 WAY.120 VAC.....	EACH	\$ 92.00	2	\$184.00
3016334	CONTROLLER\ELECTRONIC.SPEED.KIT 196NT TO DT9.RETROF	EACH	\$ 6,130.00	1	\$6,130.00
3016573	DRAIN\AUTODRAIN.CONDENSATE	EACH	\$ 760.00	1	\$760.00
3016715	CHARGER\BATTERY.480V INPUT, 1 PH, 60 HZ.60 CELLS, 130 VI	EACH	\$ 3,645.00	1	\$3,645.00
3016716	DIAPHRAGM\RUBBER.SIZE 80.	EACH	\$ 519.10	1	\$519.10
3016740	THERMOCOUP\TYPE J.....	EACH	\$ 211.50	1	\$211.50
3016907	RELAY\PROTECTIVE.VOLTAGE BALANCE	EACH	\$ 2,391.00	1	\$2,391.00
3017368	CONTACT\~.SPEEDCHANGER.MOVABLE CONTACT SET...	SET	\$ 405.33	6	\$2,432.00
3017369	DIAPHRAGM\LEAD.METAL BACK PLATE, 11 GAUGE.1/8" T X 24	EACH	\$ 168.00	1	\$168.00
3017863	TRANSMITTR\LEVEL.ECLIPSE..OUTPUT 4-20 MA INPUT 24VDC	EACH	\$ 200.00	1	\$200.00
3018059	CONNECTOR\~.SCANNER HEAD TO PC BOARD A.....	EACH	\$ 210.15	1	\$210.15
3018060	GASKET\~.SCANNER HEAD CONNECTOR..	EACH	\$ 6.03	1	\$6.03
3018061	SCREW\HEX SOC HD.CAP.4.40 X .25"LG.....	EACH	\$ 0.32	4	\$1.28
3018371	SEAL\CONICAL.FLARED FITTING.37 DEGREE.7C8	EACH	\$ 0.79	20	\$15.80
3018374	SEAL\CONICAL.FLARED FITTING.37 DEGREE.7C12	EACH	\$ 1.00	20	\$20.00
3018375	SEAL\CONICAL.FLARED FITTING.37 DEGREE.7C16	EACH	\$ 1.20	20	\$24.00
3018627	SEAL\MECHANICAL.AM. MARSH.....340 SERIES 5X6-10HD PUM	EACH	\$ 367.00	2	\$734.00
3018628	ELEMENT\ROTATING.AM MARSH SERIES 340.5X6-10HD PUMP	EACH	\$ 5,186.00	1	\$5,186.00
3018904	KIT\SEAL.ACTUATOR.VITON 070.19 PCS.	EACH	\$ 392.00	2	\$784.00
3019100	SHIM\SS.COMPENSATOR.17.125 ID X 18.480 OD X 1/16 T.SS 300.	EACH	\$ 66.27	10	\$662.70
3019355	BEARING....SIZE 5 X 6-10HD.AMERICAN MARSH 340 SERIES	EACH	\$ 99.00	2	\$198.00
3019632	MOTOR\AC.W/ FEET 230 V/460 V.5 H.P..1800 RPM.3 PH.184TC.TE	EACH	\$ 437.09	1	\$437.09
3020137	DRAIN\AUTODRAIN.CONTROL AIR EWD 330-110V 50/60	EACH	\$ 1,018.00	1	\$1,018.00
3020283	RELAY\OVERLOAD.THERMAL.CLASS 20..63-80 A	EACH	\$ 101.09	1	\$101.09
3020284	DEVICE\REMOTE TRIPPING.BIMETALLIC RELAY RESET	EACH	\$ 34.79	1	\$34.79

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BR 1 & 2 Inventory

INN	Description	UOM	Unit Cost	Qty	Write-off value
3020390	MOTOR\AC.460 V.1.5 HP.1740 RPM.3 PH.184 TEFC..2.1 A.	EACH	\$ 667.38	1	\$667.38
3021048	IMPELLER\PUMP..GRISWOLD 811M.6.37" TRIM..3X2-10.	EACH	\$ 526.00	1	\$526.00
3021091	ASSEMBLY\SPRING..7 X .687 X .625	EACH	\$ 38.00	5	\$190.00
3021144	POWER SUPPLY.DIN RAIL...100-240VAC OR 120-340VDC INPUT	EACH	\$ 152.14	1	\$152.14
3021275	MODULE\CONTROL.ASSY, PRC100	EACH	\$ 1,500.00	1	\$1,500.00
3022356	SEAL\MECHANICAL.CARTRIDGE.2.187 SHAFT SIZE.....A2R1203	EACH	\$ 3,794.00	1	\$3,794.00
3022529	POWER SUPPLY.AMP RACK.....	EACH	\$ 2,980.00	1	\$2,980.00
3022530	CARD\AMPLIFIER.RM IDD 9000 W/ BEZEL	EACH	\$ 3,830.00	1	\$3,830.00
3022557	GASKET\~..5.41 X 5.84 X .03.	EACH	\$ 112.00	2	\$224.00
3022953	SEAT\RING.TOP.316 ANNEALED.6.6 ORF.	EACH	\$ 5,390.00	1	\$5,390.00
3023016	MOTOR\AC.208/230/460V.1 HP.1155 RPM.3 PH.145T...	EACH	\$ 497.03	1	\$497.03
3023023	ADAPTOR\FRAME.MOTOR 2014T...	EACH	\$ 85.63	1	\$85.63
3023118	MOTOR\AC.460.60 HP.1785 RPM.3 PHASE.445US...	EACH	\$ -	1	\$0.00
3023142	CYLINDER\~.3.25 X 11.00, 2H SERIES..	EACH	\$ 3,480.00	2	\$6,960.00
3023396	GASKET\COUPLING.VICTAULIC 77..28".	EACH	\$ 786.00	1	\$786.00
3023493	PLUG\STEM.ASSY,THROTTLE..1C3460X0142	ASSEMBL	\$ 10,400.00	1	\$10,400.00
3023494	DISPLAY\DIGITAL.TOUCH SCREEN.DT-9 HMI PROGRAMMED S	EACH	\$ 2,009.00	1	\$2,009.00
3023496	TIP\NOZZLE.COAL.....IG04715-FB-HF5	EACH	\$ 4,990.00	4	\$19,960.00
3023507	GASKET\GRAPHITE, 316 SST, FOIL INSERT, FMS 17F46, 7.14X.8	EACH	\$ 44.00	1	\$44.00
3023608	CLUSTER\BREAKER.FINGER.2000A.A-C AM VACUUM BREAKER	EACH	\$ 2,333.00	3	\$6,999.00
3023609	CONTROLLER\PRESSURE.SCPSD-3000P-17-25 SENSOR CNTRL.	EACH	\$ 625.00	1	\$625.00
3023616	CLUSTER\BREAKER.FINGER,A-C AM.1200 A.2300 V	EACH	\$ 1,060.00	1	\$1,060.00
3023839	SWITCH\LIMIT...ENC. MATERIAL 316SS....	EACH	\$ 236.00	2	\$472.00
3024082	FUSE,H.T.9.1 OHM	EACH	\$ 285.00	3	\$855.00
3024660	Worm Gear	EACH	\$ 38,926.00	1	\$38,926.00
3024661	VERTICAL SHAFT	EACH	\$ 21,347.00	1	\$21,347.00
3024661	GEAR HOUSING COVER-LOWER GASKET	EACH	\$ 212.00	1	\$212.00
3024663	LOWER BRG/PUMP HSG COVER GASKET	EACH	\$ 97.00	1	\$97.00
3024664	BOWL HUB	EACH	\$ 17,601.00	1	\$17,601.00
116895	OIL PUMP HUB	EACH	\$ 3,744.00	1	\$3,744.00
50146	Oil Pump Bushing	EACH	\$ 1,733.00	1	\$1,733.00
3024665	THRUST BEARING ADAPTER	EACH	\$ 1,017.00	1	\$1,017.00
3024666	UPPER BEARING HOUSING	EACH	\$ 3,830.00	1	\$3,830.00
3024667	UPPER BEARING HOUSING COVER	EACH	\$ 1,931.00	1	\$1,931.00
3024668	OIL COLLECTOR	EACH	\$ 2,399.00	1	\$2,399.00
3024669	Journal Shaft	EACH	\$ 6,139.00	1	\$6,139.00
3024670	Pump Housing To Pump Cover Shim Set	EACH	\$ 380.00	1	\$380.00
3024671	THRUST BEARING HSG/CAP SHIM SET	EACH	\$ 164.00	2	\$328.00
3024672	WORM SHAFT FOR 643 & 663 STD MILLS	EACH	\$ 22,649.00	1	\$22,649.00
3024673	WORM GEAR HUB	EACH	\$ 21,342.00	1	\$21,342.00
3024674	DEFLECTOR PLT & VANE WHEEL ASSY	EACH	\$ 15,728.00	1	\$15,728.00
3024675	MILLSIDE LINER ASSEMBLY MOD	EACH	\$ 7,731.00	3	\$23,193.00
3024655	YOKE ASSEMBLY -REBUILD	EACH	\$ 11,840.52	1	\$11,840.52
3024676	COAL NOZZLE (FAB) - ASSY	EACH	\$ 6,820.00	2	\$13,640.00
3024657	CYLINDRICAL ROLLER BEARING	EACH	\$ 2,659.00	1	\$2,659.00
	CYLINDRICAL ROLLER THRUST BEARING	EACH	\$ 10,427.00	1	\$10,427.00
3024658	HOUSING UNIT LINER - RIGHT DOOR CW	EACH	\$ 473.00	1	\$473.00
	SHAFT, ASSEMBLY MAIN 7	EACH	\$ 18,650.00	1	\$18,650.00
3024677	FAN BRG HSG ASSY W/O BASE & PL	EACH	\$ 17,592.00	1	\$17,592.00
3024678	#4 FASTS FLEX HALF COUPLING	EACH	\$ 1,877.00	2	\$3,754.00
	#4 FASTS FLEX HALF COUPLING	EACH	\$ 1,950.00	1	\$1,950.00
3024681	Bearing, Thrust, Spherical	EACH	\$ 2,513.00	2	\$5,026.00
3023496	COAL NOZZLE TIP ASSEMBLY	EACH	\$ 5,195.00	4	\$20,780.00
106646	#4 FASTS FLEX HALF COUPLING	EACH	\$ 2,651.00	1	\$2,651.00

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BR 1 & 2 Inventory

INN	Description	UOM	Unit Cost	Qty	Write-off value
	CYLINDRICAL ROLLER BEARING	EACH	\$ 1,385.00	1	\$1,385.00
116888	THRUST TAPERED ROLLER BEARING	EACH	\$ 3,404.00	1	\$3,404.00
3024684	CYLINDRICAL ROLLER BEARING	EACH	\$ 4,229.00	1	\$4,229.00
3024685	CYLINDRICAL ROLLER BEARING	EACH	\$ 723.00	1	\$723.00
3024686	1/2" SQ KEY X 3-1/4" LG SQ ENDS	EACH	\$ 146.00	1	\$146.00
3024687	FLOATING SIDE GASKET	EACH	\$ 24.00	1	\$24.00
3024688	FIXED SIDE GASKET	EACH	\$ 43.00	1	\$43.00
3024689	1-1/2" SQ KEY X 9-1/2" SQ ENDS	EACH	\$ 417.00	1	\$417.00

Brown Units 1 and 2 Inventory	\$1,795,488
Warehouse Overheads and Expense	\$215,459
Brown Units 1 and 2 Total	\$2,010,947
KPSC Jurisdictional Amount	\$1,880,650

KENTUCKY UTILITIES COMPANY

**Response to Commission Staff's Second Request for Information
Dated November 13, 2018**

Case No. 2018-00294

Question No. 69

Responding Witness: Daniel K. Arbough

- Q-69. Provide a comparison of KU's monthly operating budgets to the actual results, by account, for each of the following calendar years: 2013 through 2017. The response should include comparisons for the following major expense categories. Provide, for each yearly account variance that exceeds five percent, a detailed explanation for the variance.
- a. Production Expense;
 - b. Transmission Expense;
 - c. Distribution Expense;
 - d. Customer Accounts Expense;
 - e. Customer Service and Informational Expense; and
 - f. Administrative and General Expense.

- A-69. KU and LG&E are operated as a single system and there are some periods where one of the companies is over budget in an account while the other company is under budget as the needs of the system are balanced.

While the response compares actuals to budget, it is important to note that on a combined basis over the five-year period from 2013 to 2017 actual O&M spent is \$10 million above what has been collected in rates from customers.

The attached file provides the budgeted and actual amounts by FERC account and variances exceeding 5% of the budget and \$1 million are explained. Totals are provided for the major expense categories as well.

- a-f. See attached.

KU	Actuals					Budget					Variance				
	2013	2014	2015	2016	2017	2013	2014	2015	2016	2017	2013	2014	2015	2016	2017
Production Expense	121,630,921	145,463,124	154,315,984	142,083,344	138,336,555	132,244,231	142,683,374	163,616,125	146,931,372	147,209,799	10,613,309	(2,779,750)	9,300,141	4,848,027	8,873,245
500	7,806,935	9,696,931	10,412,572	9,288,850	8,486,220	9,843,678	10,524,625	10,409,547	12,399,454	10,849,205	2,036,743	827,694	(3,024)	3,110,604	2,362,985
501	6,835,507	7,245,968	6,951,040	5,652,458	5,292,855	7,536,879	6,708,891	7,332,443	5,973,654	6,229,728	701,371	(537,077)	381,403	321,197	936,873
502	19,987,240	19,380,537	18,827,964	17,213,472	15,951,762	25,257,251	21,620,236	23,726,782	18,217,344	17,949,135	5,270,012	2,239,699	4,898,818	1,003,872	1,997,373
505	7,672,270	8,001,787	8,264,603	7,906,668	8,005,105	8,557,642	7,793,878	7,196,553	7,771,763	8,243,051	885,372	(207,909)	(1,068,049)	(134,905)	237,946
506	14,002,741	16,032,902	17,770,089	15,924,383	15,912,559	14,891,822	11,776,175	18,475,221	17,202,048	16,972,158	889,081	(4,256,727)	705,132	1,277,665	1,059,599
507	11,913	9,967	12,000	12,000	12,000	-	-	-	-	-	(11,913)	(9,967)	(12,000)	(12,000)	(12,000)
509	143,454	11,972	-	-	-	100,057	83,586	76,020	-	-	(43,397)	71,614	76,020	-	-
510	7,415,049	8,169,574	8,805,551	9,373,613	8,969,036	5,607,789	6,968,152	9,598,411	8,695,727	10,106,413	(1,807,260)	(1,201,422)	792,860	(677,886)	1,137,377
511	6,097,301	7,051,419	7,740,621	8,914,241	8,008,657	4,707,461	3,302,983	5,999,502	7,702,345	6,909,892	(1,389,840)	(3,748,436)	(1,741,119)	(1,211,897)	(1,098,765)
512	38,054,261	49,791,487	42,920,175	37,848,898	37,015,705	42,147,405	51,938,761	44,700,670	38,329,160	38,225,095	4,093,144	2,147,275	1,780,495	480,261	1,209,390
513	6,317,653	12,110,369	16,581,871	9,690,726	8,628,857	3,332,624	9,196,899	16,224,356	8,138,616	7,645,741	(2,985,028)	(2,913,469)	(357,515)	(1,552,110)	(983,116)
514	1,934,589	2,061,767	3,008,084	3,183,676	2,843,366	4,563,621	7,417,144	3,362,705	2,921,095	2,859,372	2,629,032	5,355,377	354,621	(262,581)	16,006
535	9,463	8,614	-	-	-	3,638	6,309	-	-	-	(5,825)	(2,305)	-	-	-
536	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
539	56,980	99,863	60,343	13,346	38,820	36,680	38,520	9,288	9,480	9,660	(20,300)	(61,343)	(51,055)	(3,866)	(29,160)
541	128,762	130,651	130,012	119,814	122,176	212,265	197,412	210,171	218,801	205,014	83,503	66,761	80,159	98,986	82,837
542	181,172	185,530	810,430	185,940	89,296	131,150	281,475	175,384	136,764	130,589	(50,021)	95,945	(635,046)	(49,176)	41,294
543	1,600	35,892	6,398	-	-	100,000	102,000	-	25,008	25,500	98,400	66,108	(6,398)	25,008	25,500
544	64,521	146,631	44,739	67,167	79,361	38,184	40,092	40,896	31,308	42,552	(26,337)	(106,539)	(3,843)	(35,859)	(36,809)
545	13,950	6,296	5,405	5,684	6,352	9,756	10,248	10,452	10,656	10,872	(4,194)	3,952	5,047	4,972	4,520
546	222,336	231,037	691,003	1,238,495	1,160,715	28,940	46,363	368,183	291,883	1,226,420	(193,396)	(184,673)	(322,819)	(946,612)	65,705
548	410,014	380,227	393,571	480,052	514,424	300,282	350,820	351,282	381,214	706,417	(109,732)	(29,407)	(42,289)	(98,838)	191,993
549	101,061	165,947	2,695,833	3,847,546	6,378,680	290,940	336,024	2,972,707	4,561,725	4,114,804	189,879	170,077	276,874	714,178	(2,263,876)
550	19,359	19,263	25,398	22,643	23,014	-	-	-	4,907	5,008	(19,359)	(19,263)	(25,398)	(17,736)	(18,006)
551	44,062	60,239	96,271	412,308	526,262	152,739	169,842	188,648	110,033	352,531	108,677	109,603	92,377	(302,275)	(173,730)
552	212,796	193,806	632,058	1,071,996	1,044,187	205,000	16,480	428,974	411,460	1,905,475	(7,796)	(177,326)	(203,084)	(660,536)	861,288
553	2,028,949	2,281,389	3,075,490	3,898,839	3,586,059	2,106,792	2,107,396	4,453,529	5,765,301	4,617,041	77,843	(173,993)	1,378,039	1,866,462	1,030,982
554	181,586	274,755	2,395,519	3,782,100	3,732,298	269,758	61,976	5,674,176	5,720,381	5,726,221	88,172	(212,779)	3,278,657	1,938,281	1,993,923
556	1,661,600	1,663,905	1,950,245	1,928,430	1,908,790	1,811,879	1,587,088	1,630,224	1,901,246	2,141,906	150,279	(76,817)	(320,022)	(27,483)	231,416
557	13,800	14,400	8,700	(0)	-	-	-	-	-	-	(13,800)	(14,400)	(8,700)	0	-

Comments/Description

Production Expense

	2013	2014	2015	2016	2017
500	Generation Support Services labor favorable due to reorganization; Green River outages favorable due to being budgeted to FERC 500 but spent in FERC 512 and 513.	Brown and Ghent Labor unfavorable offset by Green River favorable due to budgeted severance that did not occur until 2015.		Ghent labor favorable due to budgeted in other operating FERCS and 107 Capital.	Ghent and Brown labor favorable driven by headcount variances.
501	Favorable on fuel unloading expense due to generation demand. Favorable Green River ash pond dredging expense.	Green River unfavorable due to higher than expected fuel handling expenses. Generation plant operations labor favorable due to headcount variances, favorable limestone expenses at Ghent; offset by unfavorable limestone expenses at Trimble County due to Trimble County Unit 2 cost of sales not being allocated between companies in the budget .	Ghent favorable on labor and limestone expenses. Ghent commodities budgeted to non mechanism, actual expenses charged to ECR mechanism. Labor budgeted to boiler operations, expenses charged to other FERCs including FERC 506. Green River favorable due to plant closure.		Favorable fuel handling operations labor at Ghent.
502	Ghent favorable on plant and laboratory systems labor due to less overtime and headcount variances; offset by unfavorable limestone expenses due to Trimble County Unit 2 cost of sales not being allocated between companies in the budget .	Ghent operations labor unfavorable; offset by Green River labor favorable due to actual labor expenses to other FERCs including FERC 511.	Ghent favorable on labor and limestone expenses. Ghent commodities budgeted to non mechanism, actual expenses charged to ECR mechanism. Labor budgeted to boiler operations, expenses charged to other FERCs including FERC 506. Green River favorable due to plant closure.	Generation labor (primarily at Ghent) favorable due to actual expenses on other FERCS including FERC 505.	Brown and Ghent favorable due to limestone and sale of CCR material.
505					
506	Favorable sorbent reactant and activated carbon at Ghent due to generation demand, offset by unfavorable ammonia, sorbent reactant and activated carbon driven by Trimble County Unit 2 cost of sales not being allocated between companies in the budget.	Unfavorable ammonia, sorbent reactant and activated carbon due to Trimble County Unit 2 not being allocated between companies in the budget.	Brown and Ghent commodities favorable, including ammonia expenses.	Ghent commodities favorable, including ammonia and hydrated lime expenses.	Brown, Ghent, and Trimble County favorable on reagents offset by unfavorable Herrington Lake corrective action plan at Brown.
507					
509					
510	Ghent maintenance supervision labor unfavorable, budgeted to FERC 512.	Ghent and Green River labor unfavorable; budgeted to other 51x FERCS.	Outage favorable driven partially by expenses budgeted to FERC 510 but incurred on FERC 511.	Brown labor favorable due to unplanned amount charged to pond cap and closure capital project.	Ghent and Brown labor favorable driven by headcount variances.
511	Ghent unfavorable due mainly to structures and grounds keeping expenses higher than anticipated; Green River unfavorable due to contractor labor budgeted at FERC 505	Ghent unfavorable on labor and building and grounds keeping contract labor, partially due to labor budgeted in other 51x FERCS..	Ghent unfavorable due to higher structures & grounds keeping maintenance . Outage costs unfavorable; driven by increased scope and labor budgeted to FERC 510.	Unfavorable due increased site maintenance at Ghent including grounds keeping and building maintenance.	Increased contractor expense for site maintenance at Ghent offset by favorable boiler maintenance in FERC 512
512	Ghent labor favorable due to actual expenses in other FERCS as a result of deferred boiler maintenance.	Green River favorable due to budgeted labor charged to FERC 505. Brown and Ghent unfavorable due to increase on outages and water systems maintenance expenses	Ghent and Trimble County favorable boiler maintenance expenses. Primary drivers include lower materials and contractor expenses.		Ghent labor favorable driven by headcount variances.
513	Ghent labor unfavorable; budgeted to FERC 512.	Ghent and Green River favorable due to lower obsolete material/inventory write offs. Trimble County and Brown favorable on general maintenance labor partially due to labor expenses charged to other 51x FERCS.		Increased outage scope at Ghent resulting in unfavorable contractor labor.	Required outage repairs more than anticipated at the time of the budget.
514					
535					
536					
539					
541					
542			Dix Dam unfavorable Penstock Coating		
543					
544					
545					
546				Cane Run 7 unfavorable due to budgeted to FERC 549.	
548					
549				Cane Run 7 favorable due to incurred expenses on FERC 546.	Unfavorable due to write off of NGCC costs.
550					
551					
552				Cane Run 7 unfavorable due to higher combustion turbine enclosure maintenance, driven by lack of historical budgetary data.	Cane Run 7 outage expenses favorable due to normalization not included in budget.
553			Brown and Cane Run 7 favorable on turbine maintenance labor. Less than anticipated maintenance expenses on Cane Run 7 and Brown combustion turbines	Cane Run 7 favorable due to less condensate and combustion turbine maintenance. Brown favorable on combustion turbine maintenance. Cane Run 7 favorable on water treatment and general site maintenance, offset by Brown unfavorable combustion turbine labor.	Cane Run 7 favorable due to less condensate and combustion turbine maintenance.
554			Due to lack of historical data, first Cane Run 7 maintenance budget higher than actuals.		Cane Run 7 favorable due to less water treatment and general site maintenance
556					
557					

KU	Actuals					Budget					Variance				
	2013	2014	2015	2016	2017	2013	2014	2015	2016	2017	2013	2014	2015	2016	2017
Transmission Expense	27,330,055	29,967,987	30,977,788	30,737,059	34,078,672	31,669,984	30,000,938	29,355,512	30,952,297	36,274,533	4,339,929	32,951	(1,622,276)	215,238	2,195,861
560	1,698,267	1,732,676	1,772,984	1,658,242	1,662,214	1,872,230	1,939,144	1,708,478	1,774,197	1,882,882	173,964	206,468	(64,506)	115,955	220,668
561	3,692,734	3,276,055	4,136,098	4,044,104	3,909,563	5,804,681	4,983,055	3,726,254	4,042,724	3,984,859	2,111,947	1,707,000	(409,844)	(1,379)	75,297
562	869,020	1,186,115	1,254,789	1,305,755	1,234,278	-	-	849,269	1,394,866	1,437,928	(869,020)	(1,186,115)	(405,521)	89,111	203,651
563	700,333	872,862	711,836	606,327	627,190	1,124,650	775,075	921,082	975,924	1,054,108	424,317	(97,787)	209,246	369,597	426,918
565	2,403,214	3,037,185	2,884,536	2,900,179	2,835,641	3,979,996	3,992,293	4,336,678	3,016,417	3,242,373	1,576,782	955,108	1,452,142	116,238	406,732
566	9,754,936	10,514,352	11,029,494	12,173,118	13,103,423	11,525,495	11,047,168	10,796,578	11,283,154	13,084,754	1,770,559	532,816	(232,916)	(889,964)	(18,669)
567	191,576	98,377	152,237	148,901	146,996	-	-	-	99,600	122,400	(191,576)	(98,377)	(152,237)	(49,301)	(24,596)
569			368			-	-	-	-	-	-	-	(368)	-	-
570	2,431,735	2,845,292	2,631,984	1,948,721	1,624,999	2,860,907	3,340,614	2,570,281	2,175,045	2,196,702	429,172	495,322	(61,703)	226,323	571,703
571	5,269,858	6,249,590	6,125,495	5,959,249	8,797,867	4,485,050	4,228,931	4,154,880	6,329,528	9,065,202	(784,808)	(2,020,659)	(1,970,615)	370,279	267,334
573	478,660	331,541	586,129	329,741	296,271	175,780	207,354	122,164	193,470	369,637	(302,880)	(124,187)	(463,965)	(136,271)	73,366
575	(160,278)	(176,057)	(308,163)	(337,277)	(159,769)	(158,805)	(512,695)	169,848	(332,628)	(166,313)	1,473	(336,638)	478,011	4,649	(6,544)

	2013	2014	2015	2016	2017
Transmission Expense					
560					
561	System Operations and EMS actuals charged to 581	System Operations and EMS actuals charged to 581			
562	Transmission substation expenses were not higher FERC 562, budgeted within FERC 560, 562, 566, 570 and 573 accounts	Transmission substation expenses were not higher FERC 562, budgeted within FERC 560, 562, 566, 570 and 573 accounts			
563					
565	Lower transmission expense for tive load purchases. Favorable elimination of tive load purchases not budgeted offset in 456 Revenue account	Lower transmission expense for tive load purchases. Favorable elimination of tive load purchases not budgeted offset in 456 Revenue account	Lower tive load transmission expenses, lower transmission to serve KU customers in EKPC territory, favorable elimination for tive load transmission not budgeted (offset in 456 revenue account).		
566	Lower depancaking expenses \$538k, lower ITO expenses, lower misc O&M expenses.	FERC fees budgeted to account 566, but actual fees recorded in account 928, partially offset by higher depancaking costs.		Higher depancaking expense, as well as IT and Facilities charges not budgeted to FERC 566.	
567					
569					
570					Substation maintence deferred to 2018
571	Higher than budget based on aerial inspections and just in time clearing	Higher than budget based on aerial inspections and just in time clearing	Higher than budget based on aerial inspections and just in time clearing		
573					
575					

KU	Actuals					Budget					Variance				
											Inc / (Decr)				
	2013	2014	2015	2016	2017	2013	2014	2015	2016	2017	2013	2014	2015	2016	2017
Distribution Expense	55,236,995	59,482,264	55,624,058	56,764,547	56,162,340	54,770,228	55,251,277	57,218,128	57,030,645	60,237,731	(466,768)	(4,230,987)	1,594,070	266,098	4,075,390
580	1,505,817	1,609,144	1,384,841	1,561,787	1,641,556	1,290,713	1,271,297	1,490,967	1,694,969	1,534,804	(215,104)	(337,847)	106,126	133,182	(106,753)
581	996,486	835,866	527,155	461,444	457,295	-	-	1,093,140	310,058	291,849	(996,486)	(835,866)	565,985	(151,387)	(165,445)
582	1,769,089	1,962,059	1,966,108	2,014,653	1,964,344	1,790,553	1,892,125	1,920,417	1,751,365	1,923,355	21,465	(69,935)	(45,691)	(263,289)	(40,989)
583	4,481,497	7,378,286	5,497,286	5,753,589	6,246,106	3,228,145	4,652,869	4,541,413	4,776,273	5,126,347	(1,253,352)	(2,725,417)	(955,873)	(977,316)	(1,119,760)
584	12,895		880			-	-	534	534	-	(12,895)	-	(346)	534	-
585	159		1,239			-	-	-	-	-	(159)	-	(1,239)	-	-
586	7,789,096	7,824,415	7,817,019	7,765,196	7,718,805	7,920,875	8,139,473	7,855,031	8,106,180	8,614,506	131,780	315,057	38,011	340,984	895,701
587	(71,787)	(40,961)	(52,906)	(57,504)	(14,998)	-	(101,000)	(112,002)	(117,600)	(142,800)	71,787	(60,039)	(59,096)	(60,096)	(127,802)
588	4,213,551	4,466,548	4,774,845	5,838,341	6,530,278	4,219,082	2,922,443	4,911,019	4,798,427	6,760,620	5,531	(1,544,105)	136,174	(1,039,914)	230,341
589	12,169	8,499	9,167	7,098	-	-	-	-	-	-	(12,169)	(8,499)	(9,167)	(7,098)	-
590	27,790	116,607	150,869	17,443	67,018	-	-	34,951	44,941	59,794	(27,790)	(116,607)	(115,918)	27,498	(7,224)
592	921,674	1,153,139	979,896	1,154,455	1,079,285	1,352,344	1,519,858	1,154,551	1,369,343	1,316,500	430,670	366,719	174,654	214,888	237,215
593	32,904,334	32,899,959	31,913,312	31,266,342	29,614,376	34,054,279	33,991,804	33,449,813	33,350,972	32,892,758	1,149,944	1,091,845	1,536,501	2,084,630	3,278,382
594	526,617	584,424	436,207	486,391	377,308	841,236	885,409	737,734	736,537	751,327	314,620	300,985	301,527	250,146	374,019
595	93,656	112,250	92,466	97,356	142,954	73,000	77,000	99,561	109,928	98,888	(20,656)	(35,250)	7,095	12,572	(44,067)
596	40	331	436			-	-	151	24	-	(40)	(331)	(285)	24	-
597						-	-	-	-	396,371	-	-	-	-	396,371
598	53,914	571,699	125,239	397,957	338,013	-	-	40,848	98,696	613,413	(53,914)	(571,699)	(84,391)	(299,261)	275,400

	2013	2014	2015	2016	2017
Distribution Expense					
580					
581					
582					
583	Budget for KU Operations partially offset in FERC 588, 593 and 594.	Higher than anticipated storm restoration expense, as well as Budget for KU Operations offset in FERC 593 and 594.	Budget for KU Operations primarily offset in FERC 588, 593 and 594.	Budget for KU Operations offset in FERC 593, 594, 598 and 923. KU Operations labor over budget due to storm restoration underrun, labor budgeted but not used for storm restoration was charged to the Operations Centers normal operations expense for their routine O&M work.	Budget for KU Operations offset in FERC 588, 593, and 598. KU Operations labor over budget due to storm restoration underrun, labor budgeted but not used for storm restoration was charged to the Operations Centers normal operations expense.
584					
585					
586					Budgeted AMS Meter Base Repairs starting in July 2017, project was deferred as a result of the 2016 Rate Case Settlement.
587					
588		Budget for KU Substations offset in FERC 582 and 592. Budget for KU Distribution Control center partially offset in FERC 583. Budget for Investment Strategy offset with LGE FERC 588. Distribution System Admin Budget is offset on FERC 580.		Prior to 2016 we charged almost all IT hardware/software maintenance costs to account 923. During calendar year 2016, these costs were changed to be charged to the various line of business FERCs (588 for Distribution), so it was not previously budgeted here. Budget for Lexington Facilities Contracts on FERC 935, but actuals are hitting FERC 588.	
589					
590					
592					
593				Vegetation Magement actuals less than origil budget estimates in order to maintain the appropriate trimming cycles and to address hazard trees as appropriate. Storm Restoration costs lower than budget due to less storms than anticipated. Virginia Storm Regulatory Asset Amortization actual costs are lower than budget.	Vegetation Magement actuals less than origil budget estimates in order to maintain the appropriate trimming cycles and to address hazard trees as appropriate. Storm Restoration costs lower than budget due to less storms than anticipated. Budget higher than actuals for several KU operations centers, offsetting budget is in FERC 583.
594					
595					
596					
597					
598		Higher than anticipated storm restoration expense.			

KU	Actuals					Budget					Variance				
	2013	2014	2015	2016	2017	2013	2014	2015	2016	2017	2013	2014	2015	2016	2017
Customer Accounts Expense	26,948,825	33,323,355	31,121,050	31,630,338	32,654,059	31,193,001	32,240,562	33,237,465	32,867,043	36,343,516	4,244,176	(1,082,793)	2,116,416	1,236,705	3,689,456
901	3,127,294	3,463,059	3,900,537	3,564,859	3,797,259	2,233,721	2,809,739	2,934,238	3,536,738	3,717,937	(893,573)	(653,319)	(966,299)	(28,121)	(79,322)
902	4,972,870	5,019,304	5,007,040	5,391,861	5,120,136	5,216,151	5,624,135	5,223,517	5,497,488	5,579,215	243,281	604,831	216,477	105,627	459,079
903	15,676,714	16,703,361	17,412,429	18,432,371	19,507,799	18,522,531	18,437,612	18,281,865	17,652,218	21,042,410	2,845,816	1,734,250	869,436	(780,153)	1,534,611
904	2,705,111	8,005,373	4,797,655	4,232,737	4,226,101	4,308,400	4,834,900	6,666,000	6,180,599	6,003,953	1,603,289	(3,170,473)	1,868,345	1,947,862	1,777,852
905	466,836	132,257	3,389	8,511	2,764	912,198	534,176	131,845	-	-	445,362	401,919	128,456	(8,511)	(2,764)

	2013	2014	2015	2016	2017
Customer Accounts Expense					
901	The increase is offset in 903.	The increase is offset in 903.	The increase is offset in 903.		
902		Labor is lower due to planning to transfer employees from Green River late in the year that did not occur until 2015. Outside services are less due to lower incentives for contracted meter readers.			
903	The decrease is partially offset in 901. The net variance between 901 and 903 is due to lower labor (primarily the Residential Call Center, Business Offices and Billing Integrity from open positions and higher off-duty) and lower outside services due to lower payment processing and collection fees.	The decrease is partially offset in 901. The net variance between 901 and 903 is due lower labor (primarily the Residential Service Center and Business Offices from open positions & higher off-duty). In addition, outside services are lower within the Business Offices due to vacant contractor positions and bill postage is lower.			The decrease is due primarily to lower labor from lower overtime and higher off-duty, mainly in the Residential Call Center and Business Offices. Software maintenance fees were lower than budget associated with AMS, due to the project being deferred as a result of the 2016 Rate Case Settlement.
904	Actual bad debt costs were lower than the origilly estimated calculations. The actual ratio of bad debt expense to revenue was 0.250% versus the budgeted rate of 0.300%.	Actual bad debt costs were higher than the origilly estimated calculations. The actual ratio of bad debt expense to revenue was 0.421% versus the budgeted rate of 0.230%.	Actual bad debt costs were lower than the origilly estimated calculations. The actual ratio of bad debt expense to revenue was 0.350% versus the budgeted rate of 0.320%.	Actual bad debt costs were lower than the 5-year average used in the budget. The actual ratio of bad debt expense to revenue was 0.28% versus the budgeted rate of 0.36%, which was based on an average of the previous 4 years (2011-2014).	Actual bad debt costs were lower than the 5-year average used in the budget. The actual ratio of bad debt expense to revenue was 0.278% versus the budgeted rate of 0.352%, which was based on a average of the previous 5 years (2011-2015).
905					

KU	Actuals					Budget					Variance				
	2013	2014	2015	2016	2017	2013	2014	2015	2016	2017	2013	2014	2015	2016	2017
Customer Service and Informational Expense	1,676,821	2,014,965	2,568,745	3,839,031	3,555,035	979,522	1,827,479	2,243,627	3,312,870	4,140,181	(697,299)	(187,485)	(325,118)	(526,161)	585,146
907	290,507	391,320	357,461	536,287	553,416	335,216	276,970	322,663	388,873	646,202	44,709	(114,351)	(34,797)	(147,414)	92,786
908	569,172	483,721	504,014	528,862	465,440	266,435	530,210	647,541	524,907	444,823	(302,737)	46,488	143,527	(3,955)	(20,617)
909	407,113	409,361	735,261	454,823	494,787	-	288,700	366,574	518,120	409,940	(407,113)	(120,661)	(368,687)	63,298	(84,846)
910	368,059	636,471	664,908	1,501,715	1,249,886	377,872	731,600	736,848	1,098,760	1,803,643	9,813	95,129	71,940	(402,955)	553,757
912	41,970					-	-	-	-	-	(41,970)	-	-	-	-
913		94,091	307,100	817,344	791,507	-	-	170,000	782,210	835,573	-	(94,091)	(137,100)	(35,134)	44,066

KU

Comments/Description

2013

2014

2015

2016

2017

Customer Service and
Informational Expense

907
908
909

910
912
913

Tree trimming notification costs are offset in FERC 909.
Janitorial costs were budgeted in FERC 910 but recorded
in FERC 921.

KU	Actuals					Budget					Variance				
	2013	2014	2015	2016	2017	2013	2014	2015	2016	2017	2013	2014	2015	2016	2017
Administrative and General															
Expense	120,680,842	110,036,620	127,916,248	117,639,367	116,812,689	133,719,724	126,488,370	143,621,671	137,407,345	133,045,380	13,038,882	16,451,749	15,705,422	19,767,978	16,232,691
408	8,306,540	8,784,275	9,571,174	9,927,571	9,814,656	8,787,840	9,653,139	10,115,873	11,164,238	10,792,763	481,300	868,863	544,699	1,236,666	978,107
421	(4,381)	(7,740)	(51,682)	(21,132)	(10,842)	-	-	-	-	-	4,381	7,740	51,682	21,132	10,842
426	(1,888,158)	(1,372,796)	(1,899,664)	(1,713,363)	(1,756,634)	(1,955,148)	(2,142,924)	(1,933,003)	(1,971,660)	(1,735,492)	(66,990)	(770,127)	(33,340)	(258,297)	21,142
431	1,311	(40)	1,586	6,062	3,640	-	-	-	-	-	(1,311)	40	(1,586)	(6,062)	(3,640)
920	28,120,718	33,903,395	36,079,107	34,793,230	35,252,106	33,084,260	36,067,927	37,165,865	38,624,552	36,475,572	4,963,541	2,164,532	1,086,758	3,831,322	1,223,466
921	6,840,312	7,449,885	7,461,032	6,748,874	8,310,466	9,837,097	16,303,507	9,206,593	8,432,084	7,889,278	2,996,785	8,853,622	1,745,561	1,683,210	(421,188)
922	(4,039,449)	(4,764,234)	(4,891,341)	(5,335,124)	(5,527,119)	(4,443,252)	(4,541,222)	(5,198,442)	(5,224,900)	(4,783,754)	(403,803)	223,012	(307,101)	110,224	743,364
923	15,940,151	17,999,000	19,603,597	17,959,527	14,670,293	14,649,182	12,303,010	22,141,713	24,252,864	20,718,011	(1,290,969)	(5,695,990)	2,538,116	6,293,337	6,047,718
924	5,815,112	5,190,649	5,708,950	6,080,606	5,714,993	7,608,120	7,426,904	5,402,766	6,600,710	5,927,004	1,793,008	2,236,255	(306,184)	520,104	212,012
925	2,610,183	3,436,518	4,743,877	4,123,113	4,623,459	832,614	866,674	3,592,545	4,580,754	4,295,435	(1,777,569)	(2,569,845)	(1,151,332)	457,640	(328,024)
926	44,236,727	28,105,099	41,616,801	36,633,367	35,113,462	46,410,709	38,278,582	51,160,158	39,500,921	42,518,693	2,173,982	10,173,483	9,543,357	2,867,554	7,405,230
927	3,812	3,955	3,836	3,961	4,253	-	-	-	-	-	(3,812)	(3,955)	(3,836)	(3,961)	(4,253)
928	2,105,465	1,698,218	1,665,507	1,171,527	1,562,407	1,930,707	598,884	1,683,544	1,200,833	1,607,637	(174,757)	(1,099,334)	18,036	29,306	45,230
929	(3,812)	(3,955)	(3,836)	(3,961)	(4,253)	-	-	-	-	-	3,812	3,955	3,836	3,961	4,253
930	4,343,613	5,108,222	4,357,039	4,802,700	5,452,514	4,808,429	4,955,269	4,614,058	5,400,280	5,408,236	464,816	(152,953)	257,019	597,580	(44,278)
931	2,368,364	2,049,185	1,492,394	1,388,514	2,062,453	2,422,783	2,461,389	1,565,926	1,350,518	1,229,018	54,419	412,204	73,532	(37,996)	(833,436)
935	5,924,335	2,456,984	2,457,869	1,073,893	1,526,833	7,791,236	2,114,308	2,171,070	1,524,490	967,487	1,866,901	(342,676)	(286,798)	450,598	(559,346)

Comments/Description

	2013	2014	2015	2016	2017
Administrative and General Expense					
408		Lower payroll taxes due to open positions	Lower payroll taxes due to open positions	Lower payroll taxes due to open positions	Lower payroll taxes due to open positions
421					
426		No changes in asset value are assumed in the budget			
431					
920	IT labor was budgeted to 920 but Actuals went to 935 due to a reclassification of telecommunications expense and 107 due to additional labor required on capital projects. There was also a shortage of IT resources.	IT labor was budgeted to 920 but Actuals went 107 to primarily due to 5 large projects; actuals were also charged to 935 due to a reclassification of telecommunications expense. There was also a shortage of IT resources.			
921	Insurance and bank fee savings; IT telecommunication/Outside Svc/Training	Hardware and software maintence was budgeted to 921 as operatiol expenses but actuals went to 923 for charges related to outside services.	Main driver for the variance is due to an Unbudgeted Vendor rebate and retirement of the Chief Adminstrative officer.	Main driver for the variance is due to an Unbudgeted Vendor rebate, lower bank svc fees and a change in facilities allocation offset in 931.	
922					
923	HW/SW Mtch budgeted to 935 but actuals went to 923	HW/SW Mtch budgeted to 921 but actuals went to 923	Legal matters below budget	HW/SW mtce less than budgeted, Legal matters	Legal matters below budget/Facilities
924	Property insurance was budgeted to 924 but actuals went to 925	Property insurance was budgeted to 924 but actuals went to 925		Property ins less than budget	
925	Property insurance was budgeted to 924 but actuals went to 925	Property insurance was budgeted to 924 but actuals went to 925	Claims & public liability		
926		Favorable medical claims, lower pension expense and lower post employment	Lower pension cost and PBGC premium paid by trust	Pension	Pension and medical due to lower claims and rebate on prescription purchases.
927					
928		Higher rate case expenses			
929					
930				General Counsel allocation from PPL less than budget	
931					Rent/Parking higher than budget
935	HW/SW Mtce for IT was budgeted to 935 but actuals went to 923 due to a reclassification of telecommunications expense.				More IT Network labor than budgeted to this ferc