

Region: 5

Location: VA049

CSS #: 31389

Maximo Work Order No.: 14679

Asset #: NA

Date Issued: 8/2/21

Original Description: Replace bad gas valve on #4 boiler. Replace faulty control board on #1 boiler. Replace igniters and flame rod sensors that detect flame. Moore's needs time to troubleshoot Building Automation, with the AHU-Zone dampers not controlling

Repairs Needed:

Moore's proposes to install a new control board, ignitor, flame rod and harnesses in Boiler #1. Program new board and start and test operations. Remove and replace the gas valve in Boiler #4. Start and test operations. Remove and replace the flame rod and ignitor in Boiler #2. Start and test operations. Log into "Alerton BAS" and determine why the zone actuators are performing in reverse of normal operations. Confirm that all sensors are reading accurately, verify pump operations and lead/lag control is programmed and in use.

RS Means Line Buildup and Labor Summary (Data Version 2017, Q4):

| Quantity | Line Item Number | Description | Labor Hours | Labor Rate/Hr | Materials | Equipment | Total |
|----------|------------------|----------------------------------|-------------|---------------|------------|-----------|------------|
| -- | NA | Materials (see attached detail) | -- | -- | \$2,943.66 | -- | \$2,943.66 |
| -- | NA | Moore's Labor (4 men) | 12 | \$120.00 | -- | -- | \$1,440.00 |
| -- | NA | TW Coordination and Onsite Labor | 8 | \$80.00 | -- | -- | \$640.00 |

Estimate Summary:

| Labor Hours | Labor Cost | Material Cost | Equipment | Total Cost | CE Factor | Total Estimate |
|-------------|------------|---------------|-----------|------------|-----------|-------------------|
| 20 | \$2,080.00 | \$2,943.66 | | \$5,023.66 | 106% | \$5,325.08 |



24 Hour Service: 800.789.7199

Fax: 888.722.2712

MooreElectric.com

Corporate Office:

101 Edgewood Avenue • Altavista, VA 24517

Over 100 Technicians Serving the Entire States of Virginia & North Carolina | Lynchburg | Charlottesville | Chesapeake | Richmond | Manassas | Charlotte | Raleigh | Reidsville

Proposal

August 2, 2021

Quotes are valid for 30 days.

USARC - VA049 - 80th Command Building
6700 Strathmore Rd North Chesterfield VA 23237
PO:
Email Mary.Lowery@tideh2o.net / adam.colopy@tideh2o.net

Contact Name Mary Lowery / Adam Colopy
Telephone 0.00
Cell Phone 410-967-5346
Fax Number 0.00

DESCRIPTION OF EQUIPMENT:

Boilers #1,2,4
Alerton BAS

DESCRIPTION OF PROBLEM:

Technician recommends that Boilers #1,2,4 need to have new flame rods and ignitors installed due to extended use of the boilers. The age of the boilers puts these items past their recommended service intervals of 2 years. Boiler #1 also has a failed main board, due to its age and multiple versions of the board since the boiler was new, this will require not only a new board but a new wiring harnesses as well. Boiler #4 has a failed gas valve that is preventing the boiler from firing. Technician also found issues with the BAS system that is preventing correct heating and cooling operations.

DESCRIPTION OF REPAIRS:

Moore's is proposing to install a new control board, ignitor, flame rod and harnesses in Boiler #1. Program new board and start and test operations. Remove and replace the gas valve in Boiler #4. Start and test operations. Remove and replace the flame rod and ignitor in Boiler #2. Start and test operations. Log into "Alerton BAS" and determine why the zone actuators are performing in reverse of normal operations. Confirm that all sensors are reading accurately, verify pump operations and lead/lag control is programmed and in use.

MATERIAL, EQUIP OR PARTS

| | Quantity | Sell price |
|---------------------------------|-----------------------|--------------------|
| Board Upgrade, Harness, Display | 1.00 | \$ 1,190.60 |
| OEM Gas Valve | 1.00 | \$ 784.82 |
| Flame Rod | 3.00 | \$ 128.98 |
| Ignitors | 3.00 | \$ 113.03 |
| Freight | 1.00 | \$ 159.00 |
| Taco Cast Iron Pump | 1.00 | \$ 512.22 |
| Trip Charge | 1.00 | \$ 55.00 |
| | Material Total | \$ 2,943.66 |

LABOR ITEMIZED

| | Labor |
|--------------------|---------------------------------------|
| Labor - One Man | 12 hrs. \$ 120.00 \$ 1,440.00 |
| Labor - Second Man | \$ - |
| Labor - Third Man | \$ - |
| Labor - Fourth Man | \$ - |
| | Labor Total \$ 1,440.00 |

Thank you for your business. If you have any questions or concerns, please feel free to contact us via telephone or quotes@mooreselectric.com

Materials **\$ 2,943.66**
Labor **\$ 1,440.00**

TOTAL **\$ 4,383.66**

This does not include original call cost.

Jared Underwood, Estimating Manager 434-309-2446
Ian Harris, Estimator 434-309-2497
James Davis, Estimator 434-309-2568
Marvin Slaughter, Estimator 434-369-3514

Approved by: _____

ORDER ACKNOWLEDGEMENT

Southern Refrigeration Corporation
2314-C Dabney Rd.
Richmond, VA 23230
US

| | |
|--------------------|--------|
| Order Number | |
| 10254272 | |
| Order Date | Page |
| 7/30/2021 15:06:59 | 1 of 1 |

Bill To:

MOORE'S ELECTRIC
PO BOX 119
ALTAVISTA , VA 24517
US

Ship To:

MOORE'S ELECTRIC
1157 Azalea Ave.
Richmond, VA 23227
US

Ordered By:

Customer ID: 13336

| PO Number | | | | | Taker | | | |
|------------------|-----------|-----------|-----|-------|-------------------------------------|---------|--------|----------|
| MS262566 | | | | | CLAWRENCE | | | |
| Quantities | | | | | Item ID | Pricing | Unit | Extended |
| Ordered | Allocated | Remaining | UOM | Disp. | Item Description | UOM | Price | Price |
| CALL EARL | | | | | | | | |
| 1 | 0 | 1 | EA | | S 2400-20-3P TACO CAST IRON PUMP | EA | 402.69 | 402.69 |

Total Lines: 1

SUB-TOTAL: 402.69

TAX: 24.17

AMOUNT TENDERED : 0.00

AMOUNT DUE: 426.86

U.S. Dollars

****Quote Expiration**-** Prices from manufacturers can potentially change daily so we cannot guarantee pricing for all commodities. We can only secure prices for in stock items only.

RUN DATE: 7/30/21

CUST PH # 434-369-4374
CUST FAX # 434-369-2230

R.E. MICHEL COMPANY

WHOLESALE DISTRIBUTORS • AIR CONDITIONING • HEATING • REFRIGERATION
EQUIPMENT • PARTS • SUPPLIESwww.remichel.com *make the connectionSM*

R.E. MICHEL COMPANY LLC RICHMOND , VA 232943631

CHG WC

YOUR ACCOUNT NO. IS

430920

QUOTE

S MOORE'S ELECTRIC
 O PO BOX 119
 L ALTAVISTA, VA 24517-0119
 D
 T O

S MOORE'S ELECTRIC
 H PO BOX 119
 I ALTAVISTA, VA 24517-0119
 P
 T O

| | | | | | | |
|--------------|-----------------------|--|--|----------|----------|--|
| QUOTE NUMBER | CUSTOMER ORDER NUMBER | | | SALESMAN | SHIP VIA | |
| 44870200 | MS262303 | | | 951890 | CPU | |

| Quantity Ordered | Quantity Shipped | Back Ordered | Stock Number | Description | Unit Price | Extended Price |
|---|------------------|--------------|--------------|--|------------|----------------|
| | | | | DUE TO CURRENT VOLATILE MARKET CONDITIONS, PRICING SUBJECT TO ANY PRICE INCREASE TO/AT TIME OF SHIPMENT. TAX AND FREIGHT NOT INCLUDED. | | |
| 3 | 3 | 0 | 2W7850 | ALPINE 103005-01 IGNITOR & GASKET KIT | 29.62 | 88.86 |
| 3 | 3 | 0 | 2W7853 | 103339-01 BURNHAM REPAIR KIT FLAME SENSOR/GASKET, ALP80-500 | 33.80 | 101.40 |
| 1 | 1 | 0 | 106459-01. | CONTROL BOARD UPGRADE KIT | 936.01 | 936.01 |
| 1 | 1 | 0 | 108880-01 | GAS VALVE HARNESS ALP399F | 55.16 | 55.16 |
| 1 | 1 | 0 | 2W632P | GAS VALVE FOR ALP399 | 617.64 | 617.64 |
| 1 | 1 | 0 | FRTIN | FREIGHT IN TAXABLE | 145.00 | 145.00 |
| COMBINE WITH SPECIAL ORDER ANOTHER INVOICE (SAME PO) | | | | ITEMS BEING NEXT DAY AIRED IN EARL 434 473 2896 | | |

** CONTINUED **

Counterperson:

Tax Certificate Number

Sub Total

Sales Tax

FREIGHT

TOTAL ►

A Family Company Since 1935

RUN DATE: 7/30/21

CUST PH # 434-369-4374
CUST FAX # 434-369-2230



R.E. MICHEL COMPANY

**WHOLESALE DISTRIBUTORS • AIR CONDITIONING • HEATING • REFRIGERATION
EQUIPMENT • PARTS • SUPPLIES**

www.remichel.com make the connectionsm

R.E. MICHEL COMPANY LLC RICHMOND, VA 232943631

CHG WC

YOUR ACCOUNT NO. IS

430920

QUOTE

MOORE'S ELECTRIC
PO BOX 119
ALTAVISTA, VA 24517-0119

SH MOORE'S ELECTRIC
I PO BOX 119
P ALTAVISTA, VA 24517-0119
T C

| | | | | |
|--------------------------|-----------------------------------|--------------------|-----------------|--|
| QUOTE NUMBER 44870200 | CUSTOMER ORDER NUMBER MS262303 | SALESMAN 951890 | SHIP VIA CPU | |
|--------------------------|-----------------------------------|--------------------|-----------------|--|

Counterperson: J SHAFFER
VA087 0000

Tax Certificate Number

| | |
|-----------|---------|
| Sub Total | 1944.07 |
| Sales Tax | 116.64 |
| FREIGHT | |
| TOTAL | 2060.71 |

A Family Company Since 1935

** This is NOT an invoice **
** DO NOT sign this document as a receipt **