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P.O. Box 119 • Altavista, VA • 800.789.7199 • service@mooreselectric.com

Billing Address	Site Address
Customer: TIDEWATER, INC Address: 6625 SELNICK DRIVE ELKRIDGE MD 21075 Phone: 614-623-9569	Customer: USARC VA049 CHESTERFIELD Address: 6700 STRATHMORE ROAD NORTH CHESTERFIELD VA 23237 Phone: 6146239569
Service Call #: COM0121451	Call Type: COM-COUTS

Service Requested

CSS 21615 WO 11076 VA049 - Replace the inoperable suspended unit heaters in OMS building with new. This building use to run off propane, it has since been switched over to Natural Gas and needs new unit heaters installed. Also, where the Natural gas enters the building we would like a regulator installed and also a shut off valve. As the system currently sits, there is no shut off at the building and the regulator is located inside and should be located outside the building.

12/12/19 es- Emailed Mike to check on status of this. Emailed customer to let them know i was working on it.

12.30.19 RL CO quote finally submitted with incurred.

1/20/2020es- Approval \$ 12192.21 1 man 28 hrs 2nd man 28 hrs

DESCRIPTION OF PROBLEM:

Customer requested replacement of the heaters to natural gas units with new tubes, gas shut off and regulator.

OMS Shop Area (1993 Heaters)

Two- 125k btu Ambi-Rad Infrared Radiant Tube Heaters

M# ISC38545 S#00025642616

DESCRIPTION OF REPAIRS:

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To remove and replace the above system with (2) new Reznor 125k btu natural gas infrared radiant tube heaters. This includes connecting to existing electrical connections from the disconnect switch's to the new units, flue piping connections, gas piping connections, low voltage connections to the new t-stats, including installing new unit gas line regulators and a new shut off valve outside of the building as requested.

Start, test, and ensure proper operation of the system.

*** UNIT COMES WITH A ONE YEAR PARTS AND LABOR WARRANTY***

*** There will be two men required due to our safety policy and amount of work needed. ***

NOTE: A SCISSOR LIFT WILL BE REQUIRED TO INSTALL THE NEW HEATERS.

NOTE: QUOTE INCLUDES INSTALLING A NEW SHUT OFF AND REGULATOR EXTERNAL OF THE BUILDING AS REQUESTED.

NOTE: EQUIPMENT LEAD TIME IS SUBJECT TO CHANGE BASED ON STOCK

NOTE: EQUIPMENT LEAD TIME IS 10-21 BUSINESS DAYS.

Exclusions:

- Any and all fire alarm wiring/connecting and/or coordination
- Engineering or drawings for permit and/or Structural load calculations
- Hazardous material testing, abatement or disposal • Smoke detectors
- Roof cutting or patching and/or structural modifications
- Temporary heating or cooling • Air test and balance • Overtime

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1.21.20 AC equipment ordered from Ferguson for CO121451

Set for Richmond Ferguson Delviery. Waiting Address

- Radiant Tube Heaters

- Gas Shut off Valve.

Ferguson HVAC

2511 Brittons Hill Rd, Richmond, Va 23230

*****Mark Anderson (804) 271-5874 will be available MONDAY at 9am. Please call him 15 to 20 minutes before arriving so if he needs to come to the gate if there are any issues.

PLEASE MAKE SURE EVERYONE GOING ON THE BASE HAS THE PROPER PPE OR THEY WILL NOT BE LET ON THE BASE. SEE ATTACHED EMAIL

2/5/2020es- Ready for pick up.

2/11/2020es- Scheduled with customer to start job next Tuesday, 2/18

2.17.20 RL Job deyaed due to manufacturer sent the wrong equipment.

2/24/2020es- Still waiting on correct equipment.

3/2/2020es- Almost all parts have arrived today. Hoping we will be able to schedule this for next week.

3/9/2020es- Still waiting for parts to come in.

3/19/2020es- Put on hold until further notice due to virus.

4/14/2020es- We have ok to complete this. Scheduled for Monday, 4/20.

4/20/20es- in progress

Problems

Description	Tech	Equip. Desc and Model	Manufacturer	Equip. Serial	Asset ID
HVAC Unit replacement	MIKECIMINO	OMS Building Shop Heater M#TSC38545	AMBI-RAD	00025642616	
HVAC Unit replacement					
HVAC Unit replacement	PETELANGST				

Tech Notes

Site Start - 11/19/2019 5:00 PM

Site Stop - 11/19/2019 6:00 PM

Located OMS building shop heaters. Both heaters are tubular infrared radiant heaters(see pics). Gathered info for heater replacement.

Tech: Michael Cimino, Date: 11/19/19 6:00 PM - This work order is incomplete.

Site Start - 2/17/2020 8:15 AM Site Stop - 2/17/2020 10:15 AM WENT TO PICK UP EQUIPMENT FOUND ISSUES WAITING TO SEE IF PARTS CAN GET SENT IN.

Site Start - 3/2/2020 12:30 PM Site Stop - 3/2/2020 1:30 PM WENT TO SUPPLIER BUT THE PARTS THAT WHERE ORDERED NOT ALL CAME IN.

Site Start - 4/17/2020 1:00 PM Site Stop - 4/17/2020 4:00 PM PICKED UP EQUIPMENT FOR JOB.

Site Start - 4/20/2020 8:00 AM Site Stop - 4/20/2020 5:00 PM PICKED UP EQUIPMENT FROM SHOP AND SUPPLY HOUSE. DROVE TO SITE CHECKED IN WITH SITE. GOT ACCESS AND STARTED TO TAKE OLD HEATERS OUT.

Site Start - 4/21/2020 8:00 AM Site Stop - 4/21/2020 5:00 PM FINISHED REMOVING OLD HEATERS, STARTED TO INSTALL NEW HEATERS.

Site Start - 4/22/2020 8:00 AM Site Stop - 4/22/2020 6:00 PM FINISHED HANGING TWO NEW HEATERS, AND SUPPORTS. LEFT AND PICKED UP PARTS FOR FLUE. CUT TWO HOLE IN ROOF AND INSTALLED NEW FLUES FOR INFRARED HEATERS. HAD PLUMBER TO REDO GAS LINE OUTSIDE AND INSTALL NEW GAS REGULATOR. AFTER CHECKED GAS PIPE SIZE AND THE RUN. THE GAS LINE COULD NOT SUPPLY THE CORRECT BTUS TO THE NEW HEATERS. ADDED A CUT OFF TO THE BUILDING AND A NEW UNION SO GAS COULD BE CUT OFF OUTSIDE. WILL ADD TWO NEW VENTLESS REGULATORS AT THE UNITS. WILL RETURN TO FINISH GAS LINE AND ELECTRIC WIRING.

Site Start - 4/23/2020 8:00 AM Site Stop - 4/23/2020 2:00 PM INSTALLED NEW OUTLETS SINCE THE UNITS HAD A 115V PLUG. INSTALLED GAS REGULATORS AND GAS LINES. STARTED AND CHECKED OPERATIONS ON BOTH INFRARED HEATERS. COMPLETED STARTED UP FORMS.

Labor

Date	Technician	Description	Hours
11/19/2019	Michael Cimino	COMMERCIAL TRAVEL TIME	0.50
11/19/2019	Michael Cimino	REGULAR HVACR LABOR	1.00
2/17/2020	Peter Langston	REGULAR HVACR LABOR	2.00
3/2/2020	Peter Langston	COMMERCIAL TRAVEL TIME	1.00
4/17/2020	Peter Langston	REGULAR HVACR LABOR	3.00
4/20/2020	Peter Langston	REGULAR HVACR LABOR	8.00
4/20/2020	Michael Cimino	REGULAR HVACR LABOR	8.00
4/21/2020	Michael Cimino	REGULAR HVACR LABOR	8.00
4/21/2020	Peter Langston	REGULAR HVACR LABOR	8.00
4/22/2020	Michael Cimino	REGULAR HVACR LABOR	10.00
4/22/2020	Peter Langston	REGULAR HVACR LABOR	10.00
4/22/2020	CORY SANDLIN	REGULAR HVACR LABOR	6.50
4/22/2020	MATTHEW FRASER	REGULAR HVACR LABOR	7.00
4/22/2020	MATTHEW FRASER	COMMERCIAL TRAVEL TIME	1.75
4/23/2020	Michael Cimino	REGULAR HVACR LABOR	6.00
4/23/2020	Peter Langston	REGULAR HVACR LABOR	6.00

Materials			
Date	Part Number	Description	Quantity
2/18/2020	CRENT-EQUIPRENTAL	LIFT	1.000
4/22/2020	CMISCX-NON-STOCK ITEM	Items for PO 224347	1.000
4/22/2020	CMISCX-NON-STOCK ITEM	Items for PO 224351	1.000
4/22/2020	CMISCX-NON-STOCK ITEM	125K GAS TUEB HEATER	2.000
4/22/2020	CMISCX-NON-STOCK ITEM	2 IN BALL VALVE	1.000
4/22/2020	CMISCX-NON-STOCK ITEM	NO GAS VALVE	2.000
4/22/2020	CMISCX-NON-STOCK ITEM	BURNER ORFICE PLATE	2.000
4/22/2020	CMISCX-NON-STOCK ITEM	FAN ORIFICE	2.000
4/22/2020	CMISCX-NON-STOCK ITEM	INJECTOR	2.000
4/22/2020	CMISCX-NON-STOCK ITEM	3' BURNER INSERT TUBE	2.000
4/22/2020	CMISCX-FREIGHT-GS (NO TAX)	FREIGHT	1.000
4/22/2020	TAX-S	Sales Tax for Service	1.000
4/22/2020	CMISCX-NON-STOCK ITEM	2X2 1/2 NIPPLE	2.000
4/23/2020	CMISCX-NON-STOCK ITEM	CPLG	1.000
4/23/2020	CMISCX-NON-STOCK ITEM	UNION	1.000
4/23/2020	CMISCX-NON-STOCK ITEM	NIPPLE	1.000
4/23/2020	CMISCX-NON-STOCK ITEM	NIPPLE	1.000
4/23/2020	CMISCX-NON-STOCK ITEM	NIPPLE	1.000
4/23/2020	CMISCX-NON-STOCK ITEM	CPLG	1.000
4/23/2020	CMISCX-NON-STOCK ITEM	90DEG ELB	1.000
4/23/2020	CMISCX-NON-STOCK ITEM	90 ELB	1.000
4/23/2020	TAX-S	Sales Tax for Service	1.000
4/23/2020	CMISCX-NON-STOCK ITEM	STEEL NIPPLE	1.000
4/23/2020	CMISCX-NON-STOCK ITEM	STEEL NIPPLE	1.000
4/23/2020	CMISCX-NON-STOCK ITEM	STRAIGHT CONN	1.000
4/23/2020	CMISCX-NON-STOCK ITEM	NIPPLE	6.000
4/23/2020	CMISCX-NON-STOCK ITEM	3/4 LINE	2.000
4/23/2020	TAX-S	Sales Tax for Service	1.000
4/23/2020	COUTS-1/2GASPIPECONNECT	1/2IN B.Iron up to 8 fittings.Pipe Dope.Teflon Tape.Paint	2.000
4/23/2020	COUTS-3/4GASPIPECONNECT	3/4 Gas Fittings up to 8 with Pipe Dope+ Paint	2.000
4/23/2020	COUTS-HOLESAWBLADE	4 1/8 HOLE SAW BLADE WITH ARBOR BIMETAL	2.000
4/23/2020	COUTS-ROOFSEALANT	Black Roor Sealant per Caulk Tube	2.000
4/23/2020	COUTS-SAWZALLBLADES	DEWALT SAWZALL BLADES 18TPI	2.000
4/23/2020	COUTS-120VOUTLET	GFCI OUTLET INSTALL- NO WIRE INCLUDED	2.000
4/23/2020	COUTS-CURBADPATERINSTALL	MATERIALS TO MOUNT CURB ADAPTER INCLUDING METAL+SCREWS+FOAM	2.000
4/23/2020	CMISCX-NON-STOCK ITEM	Items for PO 224412	1.000
4/23/2020	CMISCX-NON-STOCK ITEM	Items for PO 224380	1.000

Signed By	David Orriz	Signature		Date	4/23/2020
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