

## Additional Funding Request

<b>VA050</b>	<b>CSS# 30717 WO# 14526</b>							
Description of Repairs	Chiller troubleshooting needed - additional efforts							
Diagnosis: Initial Work Order	Technician will return to site to remove and replace the compressor control module. Start, test and ensure proper operations.							
Diagnostic Fee	\$ 0							
Additional Labor Cost to Perform Repairs	<p>\$ 1,920</p> <p>2 men @ 120/hr x 8</p>							
Additional Material Cost to Perform Repairs	<p>\$ 55</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td>Truck fee</td> <td>1</td> <td>55</td> <td>55</td> </tr> </table>				Truck fee	1	55	55
Truck fee	1	55	55					
Total Cost of Repair	\$ 1,975							



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## Proposal

June 28, 2021

Quotes are valid for 30 days.

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Cell Phone 614-623-9569  
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### DESCRIPTION OF EQUIPMENT:

Chiller #2  
Make: CGAFC604ARA1000DE  
Serial: C09E14916

### DESCRIPTION OF PROBLEM:

Original: Arrived on site, checked in with POC. Located both site chiller is, one for the first floor and one for the second and third floors. Performed PM of chiller #2, checking all electrical connections, contactor's, refrigerant pressure is and testing the system operations from the integrated Trane control module at chiller. Upon doing so found circuit two with contactor fault. In speaking with tidewater tech, he had found circuit two breaker tripped the previous day he was onsite to clean the condenser coils. Shut system down ohm'd out both compressor contactor's and found contactor 2a out of tolerance, replaced contactor and verified wire placement and connections. Cycled system on at which time the compressor control module arced, shut system back down, further verified board failure which is the result of the initial breaker trip. Cycled chiller two back on, leaving circuit 2 off, tested operations of chiller circuit one, which is operating properly at this time. Will quote replacement control module.

Updated: Arrived on site checked in with Sargent Friend. Located both chiller's down for high start fault. Reset both chillers and waited for time delay at which time both cycled on and began cooling building down. Cycled chiller 1 off and replaced compressor control module and cycled system back on and monitored operations in doing so another fault has become present. Both chillers are online and operational. Located controls computer and went through controls as well as further trouble shooting the newly presented fault. Upon checking the controls, verified entering and exiting water temperatures at both chillers as well as the space temperatures and VAV operations for all three floors. This showed the building pulling down to set point building temperatures were in the high 80's so pulldown will take some time. Went through all of chiller one circuit two safeties, crankcase heaters and solenoid coil and did not find evidence for circuit 2. Lock out and deemed it to be from the back end of the main controls between the main controller at the chiller and the BAS controls.

### DESCRIPTION OF REPAIRS:

Original: Technician will return to site to remove and replace the compressor control module. Start, test and ensure proper operations.

Updated: Moore's is proposing to further troubleshoot chiller number 1.

### MATERIAL, EQUIP OR PARTS

	Quantity	Sell price
Truck Fee	1.00	\$ 55.00
<b>Material Total</b>		<b>\$ 55.00</b>

### LABOR ITEMIZED

		Labor
Labor - One Man	8	\$ 120.00 \$ 960.00
Labor - Second Man	8	\$ 120.00 \$ 960.00
<b>Labor Total</b>		<b>\$ 1,920.00</b>

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

Materials	\$ 55.00
<b>Labor</b>	<b>\$ 1,920.00</b>

<b>TOTAL</b>	<b>\$ 1,975.00</b>
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Robert Lowery, Changeout Estimator 434-309-2591  
Ian Harris, Estimator 434-309-2497  
James Davis, Estimator 434-309-2568  
Marvin Slaughter, Estimator 434-369-3514  
Jared Underwood, Estimator 434-306-2446

Approved by: \_\_\_\_\_

#### Standard Terms and Conditions

Payments past 30 days are subject to 1.5% monthly service charge on unpaid balance. Additional charges for payments made through credit cards may apply. Late payments sent to collections or legal process the purchaser agrees to pay all costs, expenses, and reasonable attorney fees.