

Additional Funding Request

INVOICE

VA049	CSS# 31589 WO# 14552 Asset# NA			
Description of Repairs	Picked up sensors and computer cabling needed to connect to the chiller control module. Arrived on site and checked in with facility personel, and proceeded to roof. Connected computer to the controller and began the process of unbundling the transducer and sensor from the controller software. Replaced both and began to rebind the transducer and sensor where I found the sensor hardware/software compatibility was incorrect. Called vendor and determined that the wrong sensor was given. Vendor had the correct sensor, proceeded to the vendor and swapped out the sensors for the correct one. Returned to site and completed the installation of the sensor and associated software. All binding processes were good. Started chiller and monitored operation, all electrical and pressure readings were good. Average space humidity began to drop to below 55%. Called Rick and have an update of the site. This work order is complete.			
Diagnosis: Initial Work Order	Chiller second stage compressors are in alarm.			
Diagnostic Fee	\$ 600 Moores Labor \$120/hr x 5			
Additional Labor Cost to Perform Repairs	\$ 1,180 Moores Labor \$120/hr x 4.5 TWI Labor \$80/ hr x 8			
Additional Cost	\$ 339.53			
	Transducer	1	222.35	222.35
	Temperature Sensor	1	117.18	117.18
Total Cost of Repair	\$ 2119.53			

CERTIFICATION OF WORK

(To be completed by the Contractor and saved in the Contractor's CMMS)

FACID/Building: 80th

Date of Visit: 7/15/21

Contractor Personnel on Site:

1. Mose's

2. _____

Work Performed: General Inspection of systems

Preventive Maintenance - Services Completed (Annual, Quarterly, Monthly, equipment identification, etc.)

1. WO# 31589

Service Calls – Service Call Number and Description

1. CSS# CHILLER SENSORS & TRANSDUCER repl. / Com 0158143

2. CSS# _____

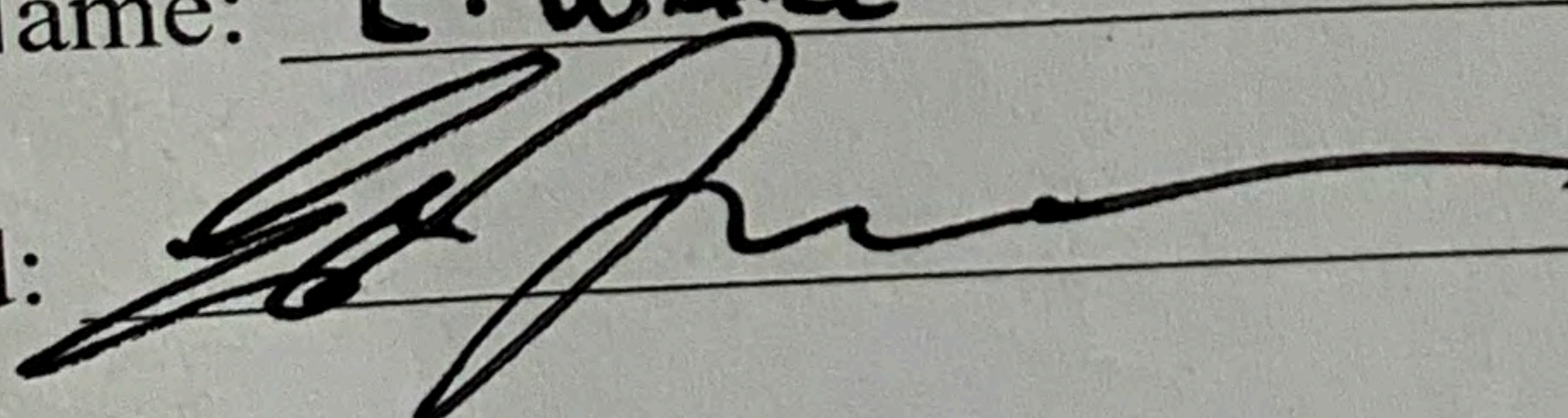
3. CSS# _____

CERTIFICATION OF WORK

To be signed by the Contractor:

Print Name: E. WARE

Date: 7/15/21

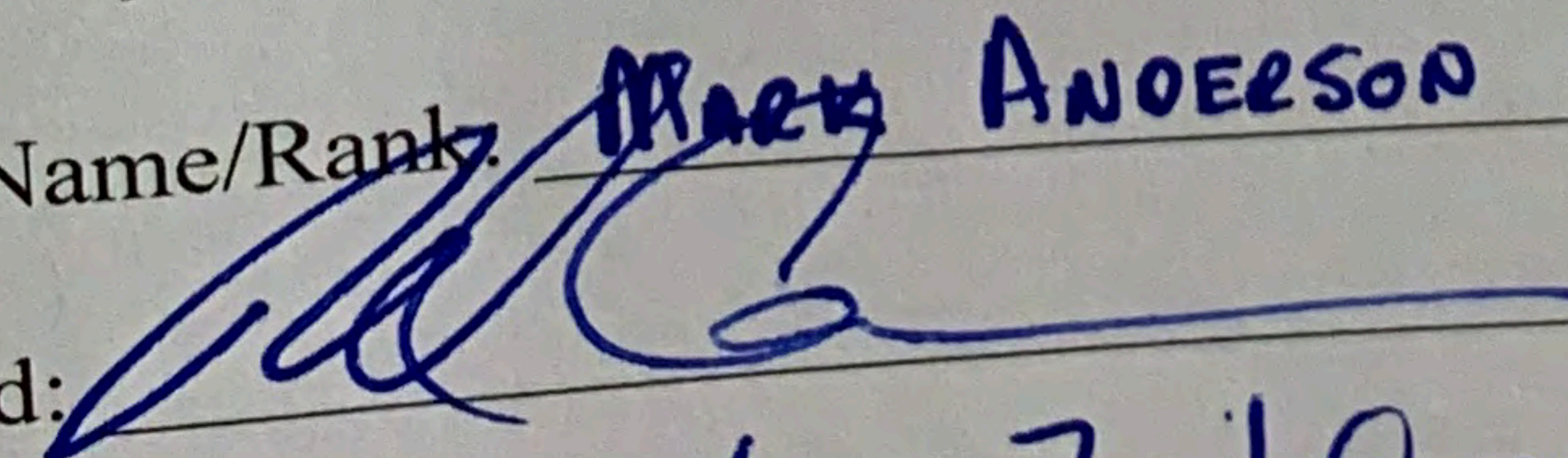
Signed: 

To be signed by Facility Manager:

I certify that the above named individuals representing the Contractor arrived on site and to the best of my knowledge, completed the stated work listed:

Print Name/Rank: MARK ANDERSON GS-12

Date: 15 July 21

Signed: 

E-Mail: mark.s.anderson7.mil@mail.mil



AKS 1008 076G1008 0221
P: 0...700 psia
OUT: IPC3 BE

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BILL TO:
TIDEW003
TIDEWATER, INC
6625 SELNICK DRIVE SUITE A
ELKRIDGE, MD 21075

SHIP TO:
8235892
USARC VA049 CHESTERFIELD
6700 STRATHMORE ROAD
NORTH CHESTERFIELD, VA 23237

<u>INVOICE DATE</u>	<u>CUSTOMER PO</u>	<u>PAYMENT TERMS</u>	<u>REFERENCE #</u>	<u>WORKORDER #</u>	<u>CONTRACT ID</u>
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07/21/2021

14552

Due in 30 Days

COM0158143

Pages 1 of 1						
<u>ITEM ID</u>	<u>DESCRIPTION</u>	<u>QTY</u>	<u>SERV DATE</u>	<u>UNIT PRICE</u>	<u>EXT PRICE</u>	<u>TAX</u>
CLABOR-HVAC-REG	REGULAR HVACR LABOR	5.00	7/13/2021	120.00	600.00	0.00
CMISCX-NON-STOCK ITEM	TRANSDUCER	1.00		222.35	222.35	0.00
CLABOR-HVAC-REG	REGULAR HVACR LABOR	4.50	7/15/2021	120.00	540.00	0.00
CMISCX-NON-STOCK ITEM	TEMPERATURE SENSOR	1.00		117.18	117.18	0.00

WO: 14552

EARL WARE: Site Start - 7/13/2021

Arrived on site and began checking the chiller. Found that the chiller was locked out on circuit2 with loss of charge alarm. Further diagnostics revealed that the suction temperature sensor was reading out of range, causing the controller to see and calculate a high superheat, which the machine sees as a loss of charge. All pressure transducers were reading accurately and eev functions were good. Will need to replace the transducer and sensor as they are software bound and work together with the controller. Will order parts and expedite the shipping.
This work order is incomplete.

EARL WARE: Site Start - 7/15/2021

Picked up sensors and computer cabling needed to connect to the chiller control module. Arrived on site and checked in with facility personel, and proceeded to roof. Connected computer to the controller and began the process of unbundling the transducer and sensor from the controller software. Replaced both and began to rebind the transducer and sensor where I found the sensor hardware/software compatibility was incorrect. Called vendor and determined that the wrong sensor was given. Vendor had the correct sensor, proceeded to the vendor and swapped out the sensors for the correct one. Returned to site and completed the installation of the sensor and associated software. All binding processes were good. Started chiller and monitored operation, all electrical and presssure readings were good. Average space humidity began to drop to below 55%. Called Rick and have an update of the site.
This work order is complete.

For questions regarding commercial invoices please contact our Accounts Receivables Department at 434-309-2480. Past 30 Days invoices are subject to 1.5% monthly interest charge. Additional charges for payments made by credit card may apply. We accept VISA, Master Card, Discover and American Express. Late payments sent to collections or legal process will also result in additional charges.

Sales Total	1,479.53
Disc.	0.00
Tax Total	0.00
Net Amount Due	\$1,479.53



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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: 614-623-9569
Service Call #: COM0158143	Call Type: COM-HVAC

Service Requested
WO: 31589 repairs are approved up to \$2,500. SOW: Chiller second stage compressors are in alarm. We will also need a "BEFORE" picture provided with your quote if repairs will be more than \$2,500. Please also provide a Certificate of Work (COW) form filled out completely and signed by your Technician and the facility POC upon completion of the site visit along with picture of the completed work.

Problems					
Description	Tech	Equip. Desc and Model	Manufacturer	Equip. Serial	Asset ID
TROUBLE SHOOT UNIT	MIKKURYLEN				
TROUBLE SHOOT UNIT	EARLWARE	M#CGAM070A	Trane	U10C14744	

Tech Notes
EARL WARE: Site Start - 7/13/2021 Arrived on site and began checking the chiller. Found that the chiller was locked out on circuit2 with loss of charge alarm. Further diagnostics revealed that the suction temperature sensor was reading out of range, causing the controller to see and calculate a high superheat, which the machine sees as a loss of charge. All pressure transducers were reading accurately and eev functions were good. Will need to replace the transducer and sensor as they are software bound and work together with the controller. Will order parts and expedite the shipping. This work order is incomplete.
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Labor			
Date	Technician	Description	Hours
7/13/2021	EARL WARE	REGULAR HVACR LABOR	5.00
7/15/2021	EARL WARE	REGULAR HVACR LABOR	4.50

Materials			
Date	Part Number	Description	Quantity
7/13/2021	CMISX-TRUCK CHARGE	TRUCK CHARGE	1.000
7/13/2021	CMISX-TRIP CHARGE	TRIP CHARGE	1.000
7/14/2021	CMISX-NON-STOCK ITEM	Items for PO 260748	1.000
7/15/2021	CMISX-NON-STOCK ITEM	Items for PO 260911	1.000
7/16/2021	CMISX-NON-STOCK ITEM	SENSOR	1.000
7/16/2021	CMISX-NON-STOCK ITEM	TRANSDUCER	1.000

Signed By		Signature		Date	
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