



Job Detail Transaction Report

Service Request Number	1-69531626381
LOB / SR Type / Subtype	HVAC-Equipment / L&M / Labor & Material
Service Site	DUPONT EXPERIMENTAL STATION DUPONT EXPERIMENTAL

Report Date 08/30/2018

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SERVICE REQUEST (SR):

Status: Closed
Substatus: Closed
Hold Reason Code:
Hold Effective Date:
Agreement #:
Entitlement:
Priority: Urgent
Requester: Cozza, Raul
Service Address: RT 141 LANCASTER PIKE
WILMINGTON, DE, 19880-0000
Main Phone: (302) 218-9257
Work Phone: (302) 695-7842
Mobile Phone: (302) 218-9898
Email Address: raul.j.cozza@dupont.com

Branch: JOHNSON CONTROLS SALISBURY
WILMINGTON CB - 0N28
Team: 260 Delmarva North Team SVC
SR Owner: Dolphin, Lynn
Created By: Landers, Michelle

Bill To Account: E I DUPONT DENEMOURS CO
AR Number: 1325779
PO #: Cozza
Blanket PO #:
Work Order #:
Authorization #:
Tracking #:

FINANCIAL SUMMARY	
Work In Progress (WIP)	
WIP - Labor	\$0.00
WIP - Expense	\$0.00
WIP - Materials	\$0.00
WIP - SubContract	\$0.00
WIP - Fee Charges	\$0.00
Total WIP	\$0.00
Cost of Goods Sold (COGS):	
COGS - Labor	\$2,079.91
COGS - Expense	\$0.00
COGS - Materials	\$0.00
COGS - SubContract	\$0.00
COGS - Fee Charges	\$12.40
Total COGS	\$2,092.31
Revenue \$	\$2,447.60
Margin \$	\$355.29
Margin %	15%

(Note: The revenue and margin section are populated if revenue has been posted)

Service Requested:

Due: 6/29/18
Desc: Absorber 3 refrigerant pump motor failure. Manual solution dilution was required. Customer needed additional OT support and service for absorbers.
Svc Hrs: 24/7
Access: None
Contact: Raul Cozza (302) 695-7842
Caller: Kevin Frazee (302) 353-0315

SERVICE PERFORMED SUMMARY:

ACTIVITY - SCHEDULED DATE:	Assigned Technician	Activity #	Service Provided	Asset ID	Customer Tag	Serial Number	Model Number
08/03/2018	Kevin Frazee	1-VXXC2BD	ABSORBER #3 REFRIG PUMP FAILURE - EMERGENCY SERVICE SR# 1-69531626381 6/29/18: After running ABS#3 for approximately 4hrs, and reaching 1100 tons, at the conclusion of a routine Operational Inspection, the Refrigerant Pump Overloads unexpectedly opened. This was before it had entered Dilution Mode. The YORK controls responded appropriately by shutting off the steam and all solution pumps.	GADM233620	ABSORBER #3	GADM233620	YPC ST 22G



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ACTIVITY - SCHEDULED DATE:	Assigned Technician	Activity #	Service Provided	Asset ID	Customer Tag	Serial Number	Model Number
			<p>Shut off / locked out main power to YORK Panel. Reset Refrig Pump Overloads. Reapplied power. Inrush current to motor was 47 Amps, which tripped the overloads again.</p> <p>Locked out power again. reversed phase rotation of motor (in an attempt to free the rotor, if mechanically bound). Restored power and overloads tripped again 44 Amps.</p> <p>Locked out power. Removed motor wires from starter, electrically isolating it.</p> <p>Inspected motor wiring at pump, winding resistance, and megohms to ground. Winding resistance balance was out of spec (likely due to partial short between phases)</p> <p>Due to the Absorber running near full load at the time of shutdown, with the majority of the refrigerant separated out of the solution (stuck in the refrigerant tank), with no means of running a normal dilution cycle, a manual dilution was require to prevent catastrophic crystallization.</p> <p>Set up hoses and portable utility pump. Evacuated lines and began transferring refrigerant from the Tank directly into the Absorber Section.</p> <p>Monitored transfer process, ensuring no possible ingress of air.</p>				
08/28/2018	Kevin Fraze	1-XWBHDZG	<p>6/29/18 (cont..):</p> <p>It took approximately 2Hrs for the external pump to bring the Refrigerant Level from above the Top Sightglass (Full Tank) to a Normal "Post-Dilution" Level just above the Bottom Sightglass (Mostly Empty Tank).</p> <p>Isolated and Dismantled the improvised External Transfer System.</p> <p>Reapplied Power to the Absorber and manually engaged all three Solution Pumps and allowed them to run for approximately one hour (to ensure a thorough mix & dilution of all Bromide throughout the machine). Based on the running solution levels observed, it was evident crystallization had not occurred to the the extent of complete blockage of flow.</p> <p>At the conclusion of the 1Hr circulation, several solution samples were pulled, specific gravity measured, and it was verified that sufficient dilution had been attained to prevent damage to the machine, by idly cooling down to room temp.</p> <p>Disengaged the solution pumps, safed off the Absorber that it could not be ran, had the DuPont Operator close the main steam valves, cleaned up the job, and noted in the Operations Log book what happened and that #3 would be down until further notice.</p> <p>7/2/18: Returned the following Monday. Verified the Refrig Motor Winding Resistance Imbalance: T1-T2= 4.1 ohms T1-T3= 7.5 ohms T2-T3= 7.6 ohms 6 Megs to GRND</p> <p>Informed Customer of what happened, what was done, & what is needed to make the Absorber Operational (a New Pump Motor). Provided Quote for Motor Replacement.</p>	GADM233620	ABSORBER #3	GADM233620	YPC ST 22G



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WIP - Work In Progress

WIP Labor

Date	Assigned Technician	Activity #	NxGen Row ID (Time Tracker)	Branch #	Labor Type / Cost Rate / Billing Product	Adjustment	Hours	Ext Amt	
							TOTAL - LABOR	0.00	\$0.00

WIP Expense

Date	Assigned Technician	Activity #	NxGen Row ID	Branch #	Expense Type	Adjustment	Qty.	Ext Amt	
								TOTAL - EXPENSE	\$0.00

WIP Material

Date	Vendor / Buy Site	Activity #	Adjustment	Order #	Type of Order	Product	Description	Qty.	UOM	Unit Cost	Ext Amt
										TOTAL - MATERIAL	\$0.00

WIP SubContract

Date	Vendor / Buy Site	Activity #	Adjustment	Order #	Type of Order	Product	Description	Qty.	Ext Amt	
									TOTAL - SUB CONTRACT	\$0.00

WIP Fee-Charges

Date	Accounting Event Name	Activity #	NxGen Row ID (Fee Tracker)	Product	Adjustment	Qty.	Ext Amt		
							TOTAL - FEE CHARGES	0.00	\$0.00



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COGS - Cost of Goods Sold

COGS Labor

Date	Assigned Technician	Activity #	NxGen Row ID (Time Tracker)	Branch #	Labor Type/Cost Rate/Billing Product	Adjustment	Hours	Ext Amt
06/29/2018	Kevin Frazee	1-VXXC2BD	1-VZ8VMA5	0N28	Overtime / Overtime / Chiller Heavy		6.75	\$1,316.19
06/30/2018	Kevin Frazee	1-VXXC2BD	1-VZ8VMIC	0N28	Overtime / Overtime / Chiller Heavy		2.25	\$438.73
07/02/2018	Kevin Frazee	1-VXXC2BD	1-W28VGOS	0N28	Regular / Regular / Chiller Heavy		1.50	\$195.00
07/02/2018	Kevin Frazee	1-VXXC2BD	1-W28VGOS	0N28	Regular / Regular / Chiller Heavy		-1.50	(\$195.00)
07/02/2018	Kevin Frazee	1-VXXC2BD	1-W28VGOS	0N28	Regular / Regular / Chiller Heavy		2.00	\$259.99
08/30/2018	Kevin Frazee	1-XWBHDZG	1-YPBZR99	0N28	Regular / Regular / Chiller Heavy		0.50	\$65.00
Sub Total - Labor Kevin Frazee							11.50	\$2,079.91
TOTAL - LABOR							11.50	\$2,079.91

COGS Expense

Date	Assigned Technician	Activity #	NxGen Row ID	Branch #	Expense Type	Adjustment	Qty.	Ext Amt
TOTAL - EXPENSE								\$0.00

COGS Material

Date	Vendor / Buy Site	Activity #	Adjustment	Order #	Type of Order	Product	Description	Qty.	UOM	Unit Cost	Ext Amt
TOTAL - MATERIAL											\$0.00

COGS SubContract

Date	Vendor / Buy Site	Activity #	Adjustment	Order #	Type of Order	Product	Description	Qty.	Ext Amt
TOTAL - SUB CONTRACT									\$0.00

COGS Fee-Charges

Date	Accounting Event Name	Activity #	NxGen Row ID (Fee Tracker)	Product	Adjustment	Qty.	Ext Amt	
08/30/2018	Fee-Charges	1-XWBHDZG	1-YPN50X9	FUEL_X		1.00	\$2.50	
Sub Total - FUEL_X							1.00	\$2.50
07/03/2018	Mileage	1-VXXC2BD	1-W292OEX	Mileage - Company Vehicle		10.00	\$9.00	
08/30/2018	Mileage	1-XWBHDZG	1-YPCC6A2	Mileage - Company Vehicle		1.00	\$0.90	
Sub Total - Mileage - Company Vehicle							11.00	\$9.90
TOTAL - FEE CHARGES							12.00	\$12.40

AR Invoices

Date	Invoice #	Related Invoice #	Revenue	Invoice / Credit Memo Sub - Total	Tax	Ext Amt
08/30/2018	1-75562139191		\$2,447.60	\$2,447.60	\$0.00	\$2,447.60
			\$2,447.60	\$2,447.60	\$0.00	TOTAL - INVOICED

UnReceived Orders

Date	Vendor / Buy Site	Activity #	Order #	Type of Order	Product	Description	Var. Ord vs. Rec	Qty.	Ext Amt
TOTAL - UNRECEIVED ORDERS									\$0.00

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