



Job Detail Transaction Report

Service Request Number	1-60506490261
LOB / SR Type / Subtype	HVAC-Equipment / L&M / Custom Quote
Service Site	DUPONT EXPERIMENTAL STATION DUPONT EXPERIMENTAL

Report Date 03/29/2018

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SERVICE REQUEST (SR):

Status: Scheduled
Substatus: Pending Tech Acceptance
Hold Reason Code:
Hold Effective Date:
Agreement #:
Entitlement:
Priority: Routine
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: Dolphin, Lynn

Bill To Account: E I DUPONT DENEMOURS CO
AR Number: 1325779
PO #: 6501861449
Blanket PO #:
Work Order #:
Authorization #:
Tracking #:
Quoted Amount: \$4,315.49

FINANCIAL SUMMARY	
Work In Progress (WIP)	
WIP - Labor	\$2,932.32
WIP - Expense	\$0.00
WIP - Materials	\$0.00
WIP - SubContract	\$0.00
WIP - Fee Charges	\$27.00
Total WIP	\$2,959.32
Cost of Goods Sold (COGS):	
COGS - Labor	\$0.00
COGS - Expense	\$0.00
COGS - Materials	\$0.00
COGS - SubContract	\$0.00
COGS - Fee Charges	\$0.00
Total COGS	\$0.00
Revenue \$	\$0.00
Margin \$	(\$2,959.32)
Margin %	
(Note: The revenue and margin section are populated if revenue has been posted)	

Service Requested:

Chiller #10 Annual Maintenance (MARCH. 2018)

Refrigerant Leak Test chiller and Document Leaks Found (repair minor leaks, if possible)
Furnish and Change Compressor Oil Filter, and Oil Return Filter-Drier
Disassemble Compressor Coupling, Clean, & Check Cold Alignment
Measure & Record Compressor Low-Speed Axial Thrust
Reassemble Coupling and Re-Check Compressor Cold Alignment
Vacuum out Compressor Motor and Change Air Filters
Check all Chiller Controls, Safeties, and Low Voltage Electrical Connections
Document all tasks and Provide DuPont with a Comprehensive Report

Refrigerant & Oil Samples will be performed under a separate Quote

SERVICE PERFORMED SUMMARY:

ACTIVITY - SCHEDULED DATE:	Assigned Technician	Activity #	Service Provided	Asset ID	Customer Tag	Serial Number	Model Number
03/15/2018	Kevin Frazee	1-SPQKPBQ	CHILLER #10 ANNUAL MAINTENANCE (2018): DUPONT PO#: 6501861449	1-FNV12L6	CHILLER #10	GACM127 699	OTT4G2- ZBES



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ACTIVITY - SCHEDULED DATE:	Assigned Technician	Activity #	Service Provided	Asset ID	Customer Tag	Serial Number	Model Number
			QUOTE#: 1-QNILN2A SR#: 1-60506490261 RUN HOURS: 41,092 / STARTS: 1355 <ul style="list-style-type: none"> REMOVED REFRIGERANT SAMPLE & SHIPPED TO LAB FOR ANALYSIS. Condition is NORMAL. (Expense covered under QUOTE# 1-QLCJ7O1) REMOVED OIL SAMPLE FROM COMPRESSOR SUMP & SHIPPED TO LAB FOR ANALYSIS. Condition is NORMAL. (Expense covered under QUOTE# 1-QLCJ7O1) REPLACED MAIN OIL FILTER (w/15u 026-11225-000) REPLACED OIL RETURN FILTER-DRIER (C-413) CHECKED OIL HEATER OPERATION. OFFLINE SUMP TEMP IS 130F OIL SUMP LEVEL W/ PUMP RUNNING: 1/4" BELOW TSG 				
03/21/2018	Kevin Fraze	1-T0ZN3RA	<ul style="list-style-type: none"> CHECKED ALL CHILLER CONTROLS, SAFETIES, & LOW VOLTAGE ELECTRICAL CONNECTIONS VERIFIED BOTH HIGH PRESSURE SWITCH CUTOFF PRESSURES OF 180PSIG & ALARM POINT ACTIVATION ON THE POWERHOUSE MAIN CONTROL SYSTEM VERIFIED RUPTURE DISK PRESSURE SWITCH CLOSURE AT 50PSIG & ALARM POINT ACTIVATION ON THE POWERHOUSE MAIN CONTROL SYSTEM CLEANED MOTOR. VACUUMED OUT INTERNALS. CHANGED BEARING OIL & AIR FILTERS (16x25x2 QTY-4) 	1-FNV12L6	CHILLER #10	GACM127 699	OTT4G2-ZBES
03/23/2018	Kevin Fraze	1-T53FZTS	COMPRESSOR ALIGNMENT CHECK: 70PSIG / OIL SUMP @ 130F <ul style="list-style-type: none"> DISASSEMBLED 1-7/8" YORK-FLEX COUPLING & CLEANED AXIAL SHIMS= 0.130" + 0.115" = 0.245" MEASURED MOTOR SHAFT FLOAT= 0.5225" (ACCEPTABLE) MOTOR TO COMP SHAFT CLEARANCE: Motor Full Forward= 3.450" Motor Full Back= 3.9725" Float Total= 0.5225" (0.500-0.565) (Min-Max) <ul style="list-style-type: none"> MEASURED MOTOR COUPLING RIM RUNOUT= 0.003" / FACE RUNOUT= 0.002" MEASURED COMP SHAFT RADIAL RUNOUT: 0.003" / FACE RUNOUT= 0.000" MEASURED COMP AXIAL THRUST= 0.016" (w/ Jack Screw) CHECKED TORQUE OF MOTOR FEET BOLTS RECORDED ALIGNMENT w/LASER & DIALS * ALIGNMENT IS CURRENTLY OUT OF TOLERANCE (Details will be forwarded to DuPont)* CLEANED CHILLER REFRIGERANT LEAK TESTED ENTIRE CHILLER. LEAKS DISCOVERED: <ol style="list-style-type: none"> OIL COOLER THERMOSTATIC VALVE O-RING SEAL (SMALL) 2" HOT-GAS NORRISEAL BUTTERFLY FLANGE SEALS (MEDIUM) GASKETS ON BOTH RUPTURE DISKS (MEDIUM) HIGH SPEED THRUST COVER PLATE O-RING SEAL (SMALL) 3/8" COPPER FLARE ON OIL-RETURN LINE (SMALL) 	1-FNV12L6	CHILLER #10	GACM127 699	OTT4G2-ZBES

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ACTIVITY - SCHEDULED DATE:	Assigned Technician	Activity #	Service Provided	Asset ID	Customer Tag	Serial Number	Model Number
			<ul style="list-style-type: none"> • CREATED QUOTE FOR REPAIR OF LEAKS NOTED ABOVE <p>*** On 03/15/2017 there appeared to be two small oil leaks discovered around the supports for the 3/4" Supply & Return Oil Pipes directly behind the Auxiliary Power Panel. During this year's Annual Maintenance, the piping support clamps were removed, pipes cleaned, and leak tested. NO LEAKS WERE FOUND. The bubbles found last year must have been created by high temp and high vibration.***</p>				
03/26/2018	Kevin Fraze	1-T5UNYR5	<ul style="list-style-type: none"> • PREPPED FOR STARTUP • DOCUMENTED ALL ANNUAL MAINTENANCE TASKS PERFORMED & PROVIDED DUPONT WITH COMPREHENSIVE REPORT (INCLUDING OIL AND REFRIGERANT ANALYSIS REPORTS) <p>03/28/2018:</p> <ul style="list-style-type: none"> • PER DUPONT'S REQUEST, MOTOR ALIGNMENT AND REFRIGERANT LEAK REPAIRS WILL BE PERFORMED AT A LATER DATE. • REASSEMBLED DRIVE COUPLING, TORQUED HUBS TO SPEC (23 FT/LB) • REASSEMBLED COUPLING GUARD • CHILLER WAS THEN UNLOCKED, STARTED, AND TEST RAN FOR 1 HOUR • CHILLER PERFORMANCE IS NORMAL AT THIS TIME <p>*** HEAVY VIBRATION still exists In Oil Pump and Oil Piping. Recorded Vibration Data from Both. Will Analyze Data & Inform Dupont of Recommendations ***</p>	1-FNV12L6	CHILLER #10	GACM127 699	OTT4G2- ZBES



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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
03/16/2018	Kevin Frazee	1-SPQKPBQ	1-SQWURYD	0N28	Regular / Regular / Chiller Heavy		4.00	\$488.72
03/19/2018	Kevin Frazee	1-SPQKPBQ	1-SUTWP2O	0N28	Regular / Regular / Chiller Heavy		2.00	\$244.36
03/22/2018	Kevin Frazee	1-T0ZN3RA	1-T5ID4AE	0N28	Regular / Regular / Chiller Heavy		4.00	\$488.72
03/22/2018	Kevin Frazee	1-T53FZTS	1-T5F5UIH	0N28	Regular / Regular / Chiller Heavy		0.00	\$0.00
03/22/2018	Kevin Frazee	1-T53FZTS	1-T5F5UIH	0N28	Regular / Regular / Chiller Heavy		4.00	\$488.72
03/22/2018	Kevin Frazee	1-T53FZTS	1-T5F5UIH	0N28	Regular / Regular / Chiller Heavy		-4.00	(\$488.72)
03/23/2018	Kevin Frazee	1-T53FZTS	1-T5F5UQD	0N28	Regular / Regular / Chiller Heavy		8.00	\$977.44
03/26/2018	Kevin Frazee	1-T5UNYR5	1-T60QQNH	0N28	Regular / Regular / Chiller Heavy		4.00	\$488.72
03/28/2018	Kevin Frazee	1-T53FZTS	1-T7MLCFS	0N28	Regular / Regular / Chiller Heavy		2.00	\$244.36
Sub Total - Labor Kevin Frazee							24.00	\$2,932.32
TOTAL - LABOR							24.00	\$2,932.32

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
03/18/2018	Mileage	1-SPQKPBQ	1-SQWUSAS	Mileage - Company Vehicle		10.00	\$9.00
03/25/2018	Mileage	1-T0ZN3RA	1-T5ID4CU	Mileage - Company Vehicle		5.00	\$4.50
03/25/2018	Mileage	1-T53FZTS	1-T5F5ULK	Mileage - Company Vehicle		5.00	\$4.50
03/25/2018	Mileage	1-T53FZTS	1-T5F5UKX	Mileage - Company Vehicle		5.00	\$4.50
03/25/2018	Mileage	1-T53FZTS	1-T5F5UKX	Mileage - Company Vehicle		-5.00	(\$4.50)
03/26/2018	Mileage	1-T5UNYR5	1-T60QQMI	Mileage - Company Vehicle		5.00	\$4.50
03/28/2018	Mileage	1-T53FZTS	1-T7MLCJA	Mileage - Company Vehicle		5.00	\$4.50
Sub Total - Mileage - Company Vehicle						30.00	\$27.00
TOTAL - FEE CHARGES						30.00	\$27.00



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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	
							TOTAL - LABOR	0.00	\$0.00

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		
							TOTAL - FEE CHARGES	0.00	\$0.00

AR Invoices

Date	Invoice #	Related Invoice #	Revenue	Invoice / Credit Memo Sub - Total	Tax	Ext Amt	
			\$0.00	\$0.00	\$0.00	TOTAL - INVOICED	\$0.00

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