



Job Detail Transaction Report

Service Request Number	1-45899325697
LOB / SR Type / Subtype	HVAC-Equipment / L&M / Custom Quote
Service Site	DUPONT EXPERIMENTAL STATION DUPONT EXPERIMENTAL

Report Date 11/07/2017

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**SERVICE REQUEST (SR):**

**Status:** Closed  
**Substatus:** Closed  
**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 #:** 6501692933  
**Blanket PO #:**  
**Work Order #:**  
**Authorization #:**  
**Tracking #:**  
**Quoted Amount:** \$3,197.15

FINANCIAL SUMMARY	
<b>Work In Progress (WIP)</b>	
WIP - Labor	\$0.00
WIP - Expense	\$0.00
WIP - Materials	\$0.00
WIP - SubContract	\$0.00
WIP - Fee Charges	\$0.00
<b>Total WIP</b>	\$0.00
<b>Cost of Goods Sold (COGS):</b>	
COGS - Labor	\$2,730.62
COGS - Expense	\$0.00
COGS - Materials	\$458.79
COGS - SubContract	\$0.00
COGS - Fee Charges	\$135.00
<b>Total COGS</b>	\$3,324.41
<b>Revenue \$</b>	\$3,197.15
<b>Margin \$</b>	(\$127.26)
<b>Margin %</b>	-4%

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

**Service Requested:** Chiller #8 Annual Maintenance 2017

Remove Refrigerant Sample for Chemical Analysis  
Refrigerant leak test chiller and document leaks found (repair minor leaks, if possible)  
Furnish and Change Compressor Oil Filter, and Oil Return Filter-Drier  
Change Compressor Oil w/ YORK J (Provided by DuPont)  
Disassemble Compressor Coupling and Check Cold Alignment  
Check Low-Speed Compressor Axial Thrust Reading  
Reassemble Coupling and Re-Check Compressor Coupling Cold Alignment  
Vacuum out Compressor Motor and Change Air Filters  
Change Oil in Compressor Motor Bearings (Provided by DuPont)  
Check all Chiller Controls, Safeties, and Low Voltage Electrical Connections  
Documents all tasks and Provide Comprehensive Report to DuPont

\*All other task, such as Recovery, Evacuation, Oil Sample, and Re-Charge are being performed under other Quotes\*

**SERVICE PERFORMED SUMMARY:**

ACTIVITY - SCHEDULED	Assigned Technician	Activity #	Service Provided	Asset ID	Customer Tag	Serial Number	Model Number
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DATE:							
01/27/2017	Kevin Frazee	1-L3J429F	<p>CHILLER #8 ANNUAL MAINTENANCE:</p> <p>DuPont PO#: 6501692933</p> <p>RUN HOURS: 47,714 TOTAL STARTS: 2088</p> <ul style="list-style-type: none"> <li>REMOVED REFRIGERANT SAMPLE FROM R-134A RECOVERED FROM CHILLER &amp; SHIPPED TO LAB FOR ANALYSIS (will forward report to DuPont upon receipt)</li> <li>REMOVED OIL SAMPLE FROM COMPRESSOR SUMP &amp; SHIPPED TO LAB FOR ANALYSIS (Expense covered under QUOTE# 1-JV664S7)</li> <li>REPLACED MAIN OIL FILTER</li> <li>REPLACED OIL RETURN FILTER-DRIER (C-413)</li> <li>CHECKED OIL HEATER OPERATION. INCREASED OFFLINE SUMP SETTING TO 135F</li> </ul>	1-FY0MJZY	CHILLER #8	GACM117 864	OTT4G2- ZBES
01/30/2017	Kevin Frazee	1-L4SFZ67	<ul style="list-style-type: none"> <li>REFRIGERANT LEAK TESTED ENTIRE CHILLER NEW LEAKS DISCOVERED &amp; FIXED:               <ol style="list-style-type: none"> <li>COMPRESSOR DISCHARGE FLANGE (SMALL)</li> </ol>               OLD LEAKS FIXED:               <ol style="list-style-type: none"> <li>REMOVED &amp; REPLACED LEAKING REFRIGERANT ANGLE VALVE &amp; 3/8" THREADED PIPING ON TOP OF CONDENSER (Leak was discovered 06/23/2016 &amp; noted)</li> <li>REPLACED LEAKING SHAFT SEAL (UNDER QUOTE#: 1-L390LXB)</li> <li>REMOVED &amp; REPLACED LEAKING RUPTURE DISK (UNDER QUOTE#: 1-FR06QSB)</li> </ol> </li> <li>DISCOVERED OIL RETURN SOLENOID VALVE SEVERELY CORRODED. REPLACED VALVE &amp; INSTALLED INLINE SIGHT GLASS.</li> </ul>	1-FY0MJZY	CHILLER #8	GACM117 864	OTT4G2- ZBES
01/31/2017	Kevin Frazee	1-LAW98QI	<ul style="list-style-type: none"> <li>CLEANED MOTOR. VACUUMED OUT INTERNALS. CHANGED BEARING OIL &amp; AIR FILTERS (16x25x2 QTY-4)</li> <li>TIGHTENED MOTOR FEET BOLTS</li> <li>RECORDED ALIGNMENT w/LASER BEFORE DRIVE COUPLING DISASSEMBLY</li> <li>DISASSEMBLED 1-7/8" YORK-FLEX COUPLING</li> <li>AXIAL SHIMS= 0.225"</li> <li>MEASURED MOTOR SHAFT FLOAT= 0.522" (ACCEPTABLE)</li> </ul> <p>MOTOR TO COMP SHAFT CLEARANCE: Motor Full Forward= 3.368" Motor Full Back= 3.890" Float Total= 0.522" (0.500-.565) Min-Max)</p> <p>MEASURED MOTOR COUPLING RIM RUNOUT= 0.003" MEASURED COMP SHAFT RADIAL RUNOUT: 0.001" MEASURED COMP AXIAL THRUST= 0.0165"</p> <ul style="list-style-type: none"> <li>REASSEMBLED COUPLING &amp; RECHECKED/RECORDED COLD ALIGNMENT</li> </ul>	1-FY0MJZY	CHILLER #8	GACM117 864	OTT4G2- ZBES
02/03/2017	Kevin Frazee	1-LC1C31C	<ul style="list-style-type: none"> <li>REPLACED ALL ORIGINAL PRESSURE TRANSDUCERS AND COMPRESSOR DISCHARGE THERMISTOR PROACTIVELY(PROVIDED BY DUPONT)</li> </ul>	1-FY0MJZY	CHILLER #8	GACM117 864	OTT4G2- ZBES
02/03/2017	Kevin Frazee	1-LCVM5ZZ	<ul style="list-style-type: none"> <li>CHECKED ALL CHILLER CONTROLS, SAFETIES, &amp; LOW VOLTAGE ELECTRICAL CONNECTIONS</li> <li>VERIFIED BOTH HIGH PRESSURE SWITCH CUTOFF PRESSURES OF 180PSIG &amp; ALARM POINT ACTIVATION ON THE POWERHOUSE MAIN CONTROL SYSTEM</li> </ul>	1-FY0MJZY	CHILLER #8	GACM117 864	OTT4G2- ZBES
02/06/2017	Kevin Frazee	1-LDSKEXM	<ul style="list-style-type: none"> <li>DRAINED OLD OIL CHARGE &amp; INSTALLED 15 GALLONS OF NEW YORK "J" OIL.</li> <li>DOCUMENTED ALL ANNUAL MAINTENANCE TASKS PERFORMED AND PROVIDED DUPONT WITH COMPREHENSIVE REPORT (INCLUDING OIL AND REFRIGERANT ANALYSIS REPORTS)</li> </ul>	1-FY0MJZY	CHILLER #8	GACM117 864	OTT4G2- ZBES



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DATE:							
02/21/2017	Aleksandra Lalic	1-LP9E7MH					



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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
<b>TOTAL - LABOR</b>							0.00	\$0.00

**WIP Expense**

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

**WIP Material**

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

**WIP SubContract**

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

**WIP Fee-Charges**

Date	Accounting Event Name	Activity #	NxGen Row ID (Fee Tracker)	Product	Adjustment	Qty.	Ext Amt	
<b>TOTAL - FEE CHARGES</b>							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
01/26/2017	Kevin Fraze	1-L3J429F	1-L3ZX9Q1	0N28	Regular / Regular / Mechanical Heavy		4.00	\$364.08
01/27/2017	Kevin Fraze	1-L3J429F	1-L401E3Z	0N28	Regular / Regular / Mechanical Heavy		4.00	\$364.08
01/30/2017	Kevin Fraze	1-L4SFZ67	1-L59KQ2B	0N28	Regular / Regular / Mechanical Heavy		7.00	\$637.15
01/31/2017	Kevin Fraze	1-LAW98QI	1-LAYBUYV	0N28	Regular / Regular / Mechanical Heavy		8.00	\$728.17
02/02/2017	Kevin Fraze	1-LC1C31C	1-LCNURMW	0N28	Regular / Regular / Mechanical Heavy		3.00	\$273.06
02/03/2017	Kevin Fraze	1-LCVM5ZZ	1-LD28DUY	0N28	Regular / Regular / Mechanical Heavy		2.00	\$182.04
02/06/2017	Kevin Fraze	1-LDSKEXM	1-LDXZETD	0N28	Regular / Regular / Mechanical Heavy		2.00	\$182.04
<b>Sub Total - Labor Kevin Fraze</b>							30.00	\$2,730.62
<b>TOTAL - LABOR</b>							30.00	\$2,730.62

**COGS Expense**

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

**COGS Material**

Date	Vendor / Buy Site	Activity #	Adjustment	Order #	Type of Order	Product	Description	Qty.	UOM	Unit Cost	Ext Amt
02/01/2017	GRAINGER	1-LAW98QI		1-46423802030	ISP	6WTP6	Solenoid Valve, 2/2, 1/4 In, NC, 120V, Brass	1	Each	\$72.26	\$72.26
02/01/2017	UNITED REFRIGERATION INC	1-LAW98QI		1-46423802289	ISP	SA13FM	SPORLAN 3/8" MXF FLARE S	1	Each	\$15.97	\$15.97
02/01/2017	UNITED REFRIGERATION INC	1-LAW98QI		1-46423802289	ISP	U56B	BRASS PIPE UNION 3/8" FF	2	Each	\$3.69	\$7.38
02/01/2017	UNITED REFRIGERATION INC	1-LAW98QI		1-46423802289	ISP	U16B	BRASS MALE HALF UNION 3/8"	6	Each	\$0.85	\$5.10
02/01/2017	UNITED REFRIGERATION INC	1-LAW98QI		1-46423802289	ISP	U18C	BRASS MALE HALF UNION 1/2"	4	Each	\$1.64	\$6.56
02/01/2017	UNITED REFRIGERATION INC	1-LAW98QI		1-46423802289	ISP	U34D	BRASS FEMALE HALF UNION	2	Each	\$5.91	\$11.82
02/01/2017	UNITED REFRIGERATION INC	1-LAW98QI		1-46423802289	ISP	U36D	BRASS FEMALE HALF UNION	2	Each	\$1.88	\$3.76
02/01/2017	UNITED REFRIGERATION INC	1-LAW98QI		1-46423802289	ISP	B28	BRASS FLARE GASKET 1/2"	5	Each	\$0.65	\$3.25
02/01/2017	UNITED REFRIGERATION INC	1-LAW98QI		1-46423802289	ISP	B26	BRASS FLARE GASKET 3/8"	5	Each	\$0.41	\$2.05
02/01/2017	UNITED REFRIGERATION INC	1-LAW98QI		1-46423802289	ISP	NH01012	NRP SEAL GASKETS F/1/2"	1	Package	\$10.69	\$10.69
02/01/2017	UNITED REFRIGERATION INC	1-LAW98QI		1-46423802289	ISP	NIC-1/4	NRP INSULCLAMP 1/4"	5	Each	\$2.00	\$10.00
02/01/2017	UNITED REFRIGERATION INC	1-LAW98QI		1-46423802289	ISP	NIC-1/2	NRP INSULCLAMP 1/2"	2	Each	\$2.10	\$4.20
02/01/2017	UNITED REFRIGERATION INC	1-LAW98QI		1-46423802289	ISP	NIC-3/8	NRP INSULCLAMP 3/8"	2	Each	\$2.04	\$4.08
02/01/2017	UNITED	1-LAW98QI		1-46423802289	ISP	US46	BRASS	2	Each	\$3.42	\$6.84

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Date	Vendor / Buy Site	Activity #	Adjustment	Order #	Type of Order	Product	Description	Qty.	UOM	Unit Cost	Ext Amt
	REFRIGERATION INC						SWIVEL NUT UNION 3				
02/01/2017	UNITED REFRIGERATION INC	1-LAW98QI		1-46423802289	ISP	16X25X2VP8	P/A VALUE PLEAT FILTER 3	4	Each	\$3.22	\$12.88
02/01/2017	UNITED REFRIGERATION INC	1-LAW98QI		1-46423802289	ISP	4036	AIRSERCO 4OZ LIQUID VAC	1	Each	\$20.90	\$20.90
02/01/2017	UNITED REFRIGERATION INC	1-LAW98QI		1-46423802289	ISP	416207	CALGON DEGREASING EF SOL	1	Each	\$36.22	\$36.22
02/01/2017	UNITED REFRIGERATION INC	1-LAW98QI		1-46423802289	ISP	34790	DIVERSITECH 5-34790 TERI	1	Each	\$12.29	\$12.29
02/01/2017	UNITED REFRIGERATION INC	1-LAW98QI		1-46423802289	ISP	SA13U	SPORLAN 3/8" FLXSWIV NUT	1	Each	\$21.78	\$21.78
02/01/2017	UNITED REFRIGERATION INC	1-LAW98QI		1-46423802289	ISP	N4820	NC SPRAY ADHESIVE 12 OZ	1	Each	\$11.49	\$11.49
02/20/2017	UNITED REFRIGERATION INC	1-LC1C31C		1-47211510225	ISP	VPO1G	NRI VACUUM PUMP OIL 1GAL	2	Each	\$28.50	\$57.00
02/20/2017	UNITED REFRIGERATION INC	1-LC1C31C		1-47211510225	ISP	416207	CALGON DEGREASING EF SOL	1	Each	\$36.22	\$36.22
02/20/2017	UNITED REFRIGERATION INC	1-LC1C31C		1-47211510225	ISP	NRIOA	NRI REFRIGERATION OIL AN	1	Each	\$60.00	\$60.00
02/20/2017	UNITED REFRIGERATION INC	1-LC1C31C		1-47211510225	ISP	B503B	B503B 2" CHIP BRUSH	2	Each	\$0.95	\$1.90
02/20/2017	UNITED REFRIGERATION INC	1-LC1C31C		1-47211510225	ISP	B505	B505 3" CHIP BRUSH (6719	1	Each	\$1.81	\$1.81
02/20/2017	UNITED REFRIGERATION INC	1-LC1C31C		1-47211510225	ISP	N2421	25010 PARTS CLEANING BRU	2	Each	\$11.17	\$22.34
<b>TOTAL - MATERIAL</b>											\$458.79

**COGS SubContract**

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

**COGS Fee-Charges**

Date	Accounting Event Name	Activity #	NxGen Row ID (Fee Tracker)	Product	Adjustment	Qty.	Ext Amt
01/27/2017	Mileage	1-L3J429F	1-L3ZX9TF	Mileage - Company Vehicle		15.00	\$13.50
01/27/2017	Mileage	1-L3J429F	1-L401E6R	Mileage - Company Vehicle		25.00	\$22.50
01/30/2017	Mileage	1-L4SFZ67	1-L59KQ7B	Mileage - Company Vehicle		35.00	\$31.50
01/31/2017	Mileage	1-LAW98QI	1-LAYBUO7	Mileage - Company Vehicle		35.00	\$31.50
02/02/2017	Mileage	1-LC1C31C	1-LCNURPO	Mileage - Company Vehicle		15.00	\$13.50
02/03/2017	Mileage	1-LCVM5ZZ	1-LD28DZY	Mileage -		15.00	\$13.50

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				Company Vehicle			
02/06/2017	Mileage	1-LDSKEXM	1-LDXZEW5	Mileage - Company Vehicle		10.00	\$9.00
<b>Sub Total - Mileage - Company Vehicle</b>						150.00	\$135.00
<b>TOTAL - FEE CHARGES</b>						150.00	\$135.00

**AR Invoices**

Date	Invoice #	Related Invoice #	Revenue	Invoice / Credit Memo Sub - Total	Tax	Ext Amt
02/21/2017	1-47240028145		\$3,197.15	\$3,197.15	\$0.00	\$3,197.15
			\$3,197.15	\$3,197.15	\$0.00	<b>TOTAL - INVOICED</b> \$3,197.15

**UnReceived Orders**

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