



Job Detail Transaction Report

Service Request Number	1-46632636274
LOB / SR Type / Subtype	HVAC-Equipment / L&M / Custom Quote
Service Site	DUPONT EXPERIMENTAL STATION DUPONT EXPERIMENTAL

Report Date 03/20/2017

Page 1 of 7

**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:** Reed, Tonia  
  
**Bill To Account:** E I DUPONT DENEMOURS CO  
**AR Number:** 1325779  
**PO #:** 6501700761  
**Blanket PO #:**  
**Work Order #:**  
**Authorization #:**  
**Tracking #:**  
**Quoted Amount:** \$4,740.10

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	\$2,548.57
COGS - Expense	\$0.00
COGS - Materials	\$337.38
COGS - SubContract	\$0.00
COGS - Fee Charges	\$139.50
<b>Total COGS</b>	\$3,025.45
<b>Revenue \$</b>	\$4,740.10
<b>Margin \$</b>	\$1,714.65
<b>Margin %</b>	36%

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

6501700761  
Chiller #9 Annual Maintenance 2017

**Service Requested:**

- 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
- Furnish & Install Sight-Glass in Oil Return Line
- 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

**SERVICE PERFORMED SUMMARY:**

ACTIVITY - SCHEDULED	Assigned Technician	Activity #	Service Provided	Asset ID	Customer Tag	Serial Number	Model Number
----------------------	---------------------	------------	------------------	----------	--------------	---------------	--------------



Job Detail Transaction Report

Service Request Number

1-46632636274

LOB / SR Type / Subtype

HVAC-Equipment / L&M / Custom Quote

Service Site

DUPONT EXPERIMENTAL STATION  
DUPONT EXPERIMENTAL

Report Date 03/20/2017

Page 2 of 7

DATE:							
02/09/2017	Kevin Fraze	1-LF7V8LT	<p>CHILLER #9 ANNUAL MAINTENANCE: DuPont PO#: 6501700761</p> <p>RUN HOURS: 44,840 TOTAL STARTS: 1999</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
02/13/2017	Kevin Fraze	1-LGKG1VT		1-FY0MJZY	CHILLER #8	GACM117 864	OTT4G2- ZBES
02/14/2017	Kevin Fraze	1-LH9X0LE	<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= 0.273"</li> <li>MEASURED MOTOR SHAFT FLOAT= 0.515" (ACCEPTABLE)</li> </ul> <p>MOTOR TO COMP SHAFT CLEARANCE: Motor Full Forward= 3.420" Motor Full Back= 3.935" Float Total= 0.515" (0.500-.565) Min-Max</p> <ul style="list-style-type: none"> <li>MEASURED MOTOR COUPLING RIM RUNOUT= 0.001"</li> <li>MEASURED COMP SHAFT RADIAL RUNOUT: 0.001"</li> <li>MEASURED COMP AXIAL THRUST= 0.014" @ 0 PSIG</li> </ul>	1-H7K9F6K	CHILLER #9	GACM127 698	OTT4G2- ZBES
02/15/2017	Kevin Fraze	1-LJ8TYDK	<ul style="list-style-type: none"> <li>REFRIGERANT LEAK TESTED ENTIRE CHILLER</li> <li>NEW LEAKS DISCOVERED &amp; FIXED:</li> <li>1. 1-1/2" THREADED PLUG ON LIQUID REFRIG TEE FEEDING OIL COOLER. (MEDIUM)</li> <li>REPLACED PLUG WITH BUSHING AND 3/4" BALL VALVE FOR FUTURE ACCESS.</li> <li>OLD LEAKS FIXED:</li> <li>1. REPLACED LEAKING SHAFT SEAL (UNDER QUOTE#: 1-LEYOVW1)</li> </ul>	1-H7K9F6K	CHILLER #9	GACM127 698	OTT4G2- ZBES
02/21/2017	Kevin Fraze	1-LOVI6RP	<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> <li>VERIFIED RUPTURE DISK PRESSURE SWITCH CLOSURE AT 50PSIG &amp; ALARM POINT ACTIVATION ON THE POWERHOUSE MAIN CONTROL SYSTEM.</li> </ul>	1-H7K9F6K	CHILLER #9	GACM127 698	OTT4G2- ZBES
02/22/2017	Kevin Fraze	1-LPTIRDH	<ul style="list-style-type: none"> <li>DISCOVERED OIL RETURN SOLENOID VALVE SEVERELY CORRODED. REPLACED VALVE &amp; INSTALLED INLINE SIGHT GLASS.</li> <li>DISCOVERED OIL RETURN ANGLE SERVICE VALVE SEVERELY CORRODED &amp; SEIZED. REPLACED VALVE AND INSTALLED NEW INTERCONNECTING PIPING.</li> </ul>	1-H7K9F6K	CHILLER #9	GACM127 698	OTT4G2- ZBES
02/23/2017	Kevin Fraze	1-LPXMZ5N	<ul style="list-style-type: none"> <li>DRAINED OLD OIL CHARGE &amp; INSTALLED 15 GALLONS OF NEW YORK "J" OIL SUPPLIED BY CUSTOMER.</li> <li>REASSEMBLED DRIVE COUPLING &amp; RECHECKED/RECORDED COLD ALIGNMENT.</li> </ul>	1-H7K9F6K	CHILLER #9	GACM127 698	OTT4G2- ZBES



Job Detail Transaction Report

Service Request Number

1-46632636274

LOB / SR Type / Subtype

HVAC-Equipment / L&M / Custom Quote

Service Site

DUPONT EXPERIMENTAL STATION  
DUPONT EXPERIMENTAL

**CONFIDENTIAL AND PROPRIETARY - FOR INTERNAL USE ONLY**

Report Date 03/20/2017

Page 3 of 7

DATE:							
02/24/2017	Kevin Frazee	1-LQP72HK					
02/28/2017	Kevin Frazee	1-LRZTHZH	• DOCUMENTED ALL ANNUAL MAINTENANCE TASKS PERFORMED AND PROVIDED DUPONT WITH COMPREHENSIVE REPORT (INCLUDING OIL AND REFRIGERANT ANALYSIS REPORTS)	1-H7K9F6K	CHILLER #9	GACM127 698	OTT4G2- ZBES
03/03/2017	Steven Duarte	1-LYV2FH7					



Job Detail Transaction Report

Service Request Number

1-46632636274

LOB / SR Type / Subtype

HVAC-Equipment / L&M / Custom Quote

Service Site

DUPONT EXPERIMENTAL STATION  
DUPONT EXPERIMENTAL

**CONFIDENTIAL AND PROPRIETARY - FOR INTERNAL USE ONLY**

Report Date 03/20/2017

Page 4 of 7

**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



Job Detail Transaction Report

Service Request Number

1-46632636274

LOB / SR Type / Subtype

HVAC-Equipment / L&M / Custom Quote

Service Site

DUPONT EXPERIMENTAL STATION  
DUPONT EXPERIMENTAL

Report Date 03/20/2017

Page 5 of 7

**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
02/10/2017	Kevin Frazee	1-LF7V8LT	1-LFVG9UH	0N28	Regular / Regular / Mechanical Heavy		4.00	\$364.08
02/14/2017	Kevin Frazee	1-LH9X0LE	1-LHX38TL	0N28	Regular / Regular / Mechanical Heavy		4.00	\$364.08
02/15/2017	Kevin Frazee	1-LJ8TYDK	1-LK4MJ1J	0N28	Regular / Regular / Mechanical Heavy		8.00	\$728.17
02/15/2017	Kevin Frazee	1-LJ8TYDK	1-LK4MJ1J	0N28	Regular / Regular / Mechanical Heavy		6.00	\$546.13
02/15/2017	Kevin Frazee	1-LJ8TYDK	1-LK4MJ1J	0N28	Regular / Regular / Mechanical Heavy		-8.00	(\$728.17)
02/21/2017	Kevin Frazee	1-LOVI6RP	1-LPGXPVV	0N28	Regular / Regular / Mechanical Heavy		4.00	\$364.08
02/22/2017	Kevin Frazee	1-LPTIRDH	1-LQ1O7RX	0N28	Regular / Regular / Mechanical Heavy		4.00	\$364.08
02/23/2017	Kevin Frazee	1-LPXMZ5N	1-LQYYHLV	0N28	Regular / Regular / Mechanical Heavy		4.00	\$364.08
02/28/2017	Kevin Frazee	1-LRZTHZH	1-LT05H73	0N28	Regular / Regular / Mechanical Heavy		2.00	\$182.04
<b>Sub Total - Labor Kevin Frazee</b>							28.00	\$2,548.57
<b>TOTAL - LABOR</b>							28.00	\$2,548.57

**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
02/11/2017	UNITED REFRIGERATION INC	1-LF7V8LT		1-46682323410	ISP	N56	BRASS 3/8" FLARE CAP HEX	4	Each	\$1.09	\$4.36
02/11/2017	UNITED REFRIGERATION INC	1-LF7V8LT		1-46682323410	ISP	16X25X2VP8	P/A VALUE PLEAT FILTER 3	4	Each	\$3.22	\$12.88
02/16/2017	GRAINGER	1-LF7V8LT		1-47025559947	ISP	22LD89	Disp Glvs,Nitrile,6 Mii,M,12 In,Blk,PK	1	Each	\$13.75	\$13.75
02/16/2017	GRAINGER	1-LF7V8LT		1-47025559947	ISP	6WTP6	Solenoid Valve,2/2,1/4 In,NC,120V,Brass	1	Each	\$72.26	\$72.26
02/16/2017	UNITED REFRIGERATION INC	1-LH9X0LE		1-47034517219	ISP	5RLF	CATCO BLUE RAGS (5LB BOX	1	Each	\$16.00	\$16.00
02/16/2017	UNITED REFRIGERATION INC	1-LH9X0LE		1-47034517219	ISP	NUK20	NRP INSP MIRROR RECT 2-1	1	Each	\$9.06	\$9.06
02/16/2017	UNITED REFRIGERATION INC	1-LH9X0LE		1-47034517219	ISP	NUK2H	NRP REPL MIRROR RECT FOR	1	Each	\$3.75	\$3.75
02/16/2017	UNITED REFRIGERATION INC	1-LH9X0LE		1-47034517219	ISP	NH05001	NRP SEAL GASKET F/1/4" C	1	Each	\$3.28	\$3.28
02/16/2017	UNITED REFRIGERATION INC	1-LH9X0LE		1-47034517219	ISP	NH01012	NRP SEAL GASKETS F/1/2"	1	Package	\$10.69	\$10.69
02/16/2017	UNITED REFRIGERATION INC	1-LH9X0LE		1-47034517219	ISP	12AP	KANO AEROKROIL SPRAY 10	1	Each	\$18.26	\$18.26
02/16/2017	UNITED REFRIGERATION INC	1-LH9X0LE		1-47034517219	ISP	SA13U	SPORLAN 3/8" FLXSWIV NUT	1	Each	\$21.78	\$21.78
02/16/2017	UNITED	1-LH9X0LE		1-47034517219	ISP	62F4	BRASS COMP	2	Each	\$1.29	\$2.58



Job Detail Transaction Report

Service Request Number	1-46632636274
LOB / SR Type / Subtype	HVAC-Equipment / L&M / Custom Quote
Service Site	DUPONT EXPERIMENTAL STATION DUPONT EXPERIMENTAL

**CONFIDENTIAL AND PROPRIETARY - FOR INTERNAL USE ONLY**

Report Date 03/20/2017

Page 6 of 7

Date	Vendor / Buy Site	Activity #	Adjustment	Order #	Type of Order	Product	Description	Qty.	UOM	Unit Cost	Ext Amt
	REFRIGERATION INC						COUPLING 1/4"				
02/16/2017	UNITED REFRIGERATION INC	1-LH9X0LE		1-47034517219	ISP	68F4D	BRASS HALF UNION 1/4" OD	2	Each	\$3.11	\$6.22
02/16/2017	UNITED REFRIGERATION INC	1-LH9X0LE		1-47034517219	ISP	64F4	BRASS COMP TEE 1/4"	1	Each	\$3.11	\$3.11
02/21/2017	UNITED REFRIGERATION INC	1-LJ8TYDK		1-47230767612	ISP	6056D	SUPERIOR 1/2NPTX3/8SA E P	1	Each	\$33.23	\$33.23
02/21/2017	UNITED REFRIGERATION INC	1-LJ8TYDK		1-47230767612	ISP	2146	SVC 3/8"FL TUFFY SHUT- O	1	Each	\$31.95	\$31.95
02/21/2017	UNITED REFRIGERATION INC	1-LJ8TYDK		1-47230767612	ISP	2158	SVC 1/2"FL TUFFY SHUT- O	1	Each	\$39.94	\$39.94
02/21/2017	UNITED REFRIGERATION INC	1-LJ8TYDK		1-47230767612	ISP	A13220	MUELLER 1/2MPT X 1/2MFL	1	Each	\$34.28	\$34.28
<b>TOTAL - MATERIAL</b>											\$337.38

**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	
02/10/2017	Mileage	1-LF7V8LT	1-LFVEHH9	Mileage - Company Vehicle		25.00	\$22.50	
02/14/2017	Mileage	1-LH9X0LE	1-LHX38GA	Mileage - Company Vehicle		20.00	\$18.00	
02/16/2017	Mileage	1-LJ8TYDK	1-LLWL0S7	Mileage - Company Vehicle		35.00	\$31.50	
02/22/2017	Mileage	1-LOVI6RP	1-LPYU3IB	Mileage - Company Vehicle		15.00	\$13.50	
02/22/2017	Mileage	1-LPTIRDH	1-LQ107OD	Mileage - Company Vehicle		20.00	\$18.00	
02/24/2017	Mileage	1-LPXMZ5N	1-LQYYHP7	Mileage - Company Vehicle		20.00	\$18.00	
02/28/2017	Mileage	1-LRZTHZH	1-LT05HG0	Mileage - Company Vehicle		20.00	\$18.00	
<b>Sub Total - Mileage - Company Vehicle</b>							155.00	\$139.50
<b>TOTAL - FEE CHARGES</b>							155.00	\$139.50

**AR Invoices**

Date	Invoice #	Related Invoice #	Revenue	Invoice / Credit Memo Sub - Total	Tax	Ext Amt
03/03/2017	1-47820460566		\$4,740.10	\$4,740.10	\$0.00	\$4,740.10
			\$4,740.10	\$4,740.10	\$0.00	<b>TOTAL - INVOICED</b> \$4,740.10

**UnReceived Orders**

**CONFIDENTIAL AND PROPRIETARY - FOR INTERNAL USE ONLY**



Service Request Number 1-46632636274

LOB / SR Type / Subtype HVAC-Equipment / L&M / Custom Quote

Service Site DUPONT EXPERIMENTAL STATION  
DUPONT EXPERIMENTAL

Job Detail Transaction Report

**CONFIDENTIAL AND PROPRIETARY - FOR INTERNAL USE ONLY**

Report Date 03/20/2017

Page 7 of 7

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