



Service Request Number	1-47443336030
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LOB / SR Type / Subtype	HVAC-Equipment / L&M / Custom Quote
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Service Site	DUPONT EXPERIMENTAL STATION DUPONT EXPERIMENTAL
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Job Detail Transaction Report

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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 #:** 6501709952  
**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	\$3,094.71
COGS - Expense	\$0.00
COGS - Materials	\$207.27
COGS - SubContract	\$0.00
COGS - Fee Charges	\$135.00
<b>Total COGS</b>	\$3,436.98
<b>Revenue \$</b>	\$4,740.10
<b>Margin \$</b>	\$1,303.12
<b>Margin %</b>	27%

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

(6501709952) Chiller #10 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 FilterDrier  
 Furnish & Install SightGlass in Oil Return Line  
 Change Compressor Oil w/ YORK J (Provided by DuPont) \*IF REQUIRED\*  
 Disassemble Compressor Coupling and Check Cold Alignment  
 Check LowSpeed Compressor Axial Thrust Reading  
 Reassemble Coupling and ReCheck 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:**



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ACTIVITY - SCHEDULED DATE:	Assigned Technician	Activity #	Service Provided	Asset ID	Customer Tag	Serial Number	Model Number
03/01/2017	Kevin Frazee	1-LSMNTGQ	<p>CHILLER #10 ANNUAL MAINTENANCE: DUPONT PO#: 6501709952 JCI QUOTE#: 1-LP2461V</p> <p>RUN HOURS: 37,640 TOTAL STARTS: 1270</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-FNV12L6	CHILLER #10	GACM127 699	OTT4G2- ZBES
03/02/2017	Kevin Frazee	1-LXEOTZJ	<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= 0.245" (0.115" + 0.130")</li> <li>MEASURED MOTOR SHAFT FLOAT= 0.520" (ACCEPTABLE)</li> </ul> <p>MOTOR TO COMP SHAFT CLEARANCE: Motor Full Forward= 3.479" Motor Full Back= 3.999" Float Total= 0.520" (0.500-.565) Min-Max)</p> <ul style="list-style-type: none"> <li>MEASURED MOTOR COUPLING RIM RUNOUT= 0.003"</li> <li>MEASURED COMP SHAFT RADIAL RUNOUT: 0.001"</li> <li>MEASURED COMP AXIAL THRUST= 0.014" @ 0 PSIG</li> </ul> <p>REASSEMBLED DRIVE COUPLING &amp; RECHECKED/RECORDED COLD ALIGNMENT</p>	1-FNV12L6	CHILLER #10	GACM127 699	OTT4G2- ZBES
03/03/2017	Kevin Frazee	1-LXXF98D	<ul style="list-style-type: none"> <li>DISCOVERED OIL RETURN SOLENOID VALVE SEVERELY CORRODED. REPLACED VALVE &amp; INSTALLED INLINE SIGHT GLASS.</li> <li>REFRIGERANT LEAK TESTED ENTIRE CHILLER</li> </ul> <p>NEW LEAKS DISCOVERED:</p> <ol style="list-style-type: none"> <li>1-1/2" THREADED LIQUID REFRIGERANT TEE FEEDING OIL COOLER</li> <li>COMP. OIL RESERVOIR EQUALIZING LINE 1/4" THREADED FLARE ELBOW (These LEAKS were REPAIRED on 03/10/2017 under QUOTE#: 1-M0XUGZP)</li> <li>COMPRESSOR PRE-ROTATION VANE SHAFT SEAL (This LEAK was REPAIRED on 03/10/2017 under QUOTE#: 1-M0YMG0P)</li> </ol>	1-FNV12L6	CHILLER #10	GACM127 699	OTT4G2- ZBES
03/06/2017	Kevin Frazee	1-LZKINVC	<ul style="list-style-type: none"> <li>CHECKED ALL CHILLER CONTROLS, SAFETIES, &amp; LOW VOLTAGE ELECTRICAL CONNECTIONS</li> <li>CHECKED, ADJUSTED, &amp; VERIFIED BOTH HIGH PRESSURE SWITCH CUTOUT</li> </ul>	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
			<p>PRESSURES OF 180PSIG &amp; ALARM POINT ACTIVATION ON THE POWERHOUSE MAIN CONTROL SYSTEM</p> <ul style="list-style-type: none"> <li>• VERIFIED RUPTURE DISK PRESSURE SWITCH CLOSURE AT 50PSIG &amp; ALARM POINT ACTIVATION ON THE POWERHOUSE MAIN CONTROL SYSTEM</li> </ul> <p>** (DISCOVERED COMPRESSOR DISCHARGE TEMP SENSOR READING 10F LOW - REPLACEMENT IS RECOMMENDED)**</p> <ul style="list-style-type: none"> <li>• DRAINED OLD OIL CHARGE &amp; INSTALLED 15 GALLONS OF NEW YORK "J" OIL SUPPLIED BY CUSTOMER</li> </ul>				
03/10/2017	Kevin Frazee	1-M1Q0CJ3	<ul style="list-style-type: none"> <li>• DOCUMENTED ALL ANNUAL MAINTENANCE TASKS PERFORMED AND PROVIDED DUPONT WITH COMPREHENSIVE REPORT (INCLUDING OIL AND REFRIGERANT ANALYSIS REPORTS)</li> </ul>	1-FNV12L6	CHILLER #10	GACM127 699	OTT4G2- ZBES
03/17/2017	Haley Kroes	1-M3ZL4TZ		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
<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
03/01/2017	Kevin Fraze	1-LSMNTGQ	1-LXCQYM7	0N28	Regular / Regular / Mechanical Heavy		8.00	\$728.17
03/02/2017	Kevin Fraze	1-LXEOTZJ	1-LXZLLZJ	0N28	Regular / Regular / Mechanical Heavy		8.00	\$728.17
03/03/2017	Kevin Fraze	1-LXXF98D	1-LZ6IRI7	0N28	Regular / Regular / Mechanical Heavy		6.00	\$546.13
03/06/2017	Kevin Fraze	1-LZKINVC	1-M03DTXX	0N28	Regular / Regular / Mechanical Heavy		4.00	\$364.08
03/07/2017	Kevin Fraze	1-LZKINVC	1-M1NKXB9	0N28	Regular / Regular / Mechanical Heavy		5.00	\$455.10
03/07/2017	Kevin Fraze	1-LZKINVC	1-M1NKXB9	0N28	Regular / Regular / Mechanical Heavy		3.00	\$273.06
03/07/2017	Kevin Fraze	1-LZKINVC	1-M1NKXB9	0N28	Regular / Regular / Mechanical Heavy		-3.00	(\$273.06)
03/08/2017	Kevin Fraze	1-LZKINVC	1-M1NNEO2	0N28	Regular / Regular / Mechanical Heavy		2.00	\$182.04
03/16/2017	Kevin Fraze	1-M1Q0CJ3	1-M3IZ6AP	0N28	Regular / Regular / Mechanical Heavy		1.00	\$91.02
<b>Sub Total - Labor Kevin Fraze</b>							34.00	\$3,094.71
<b>TOTAL - LABOR</b>							34.00	\$3,094.71

**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
03/09/2017	UNITED REFRIGERATION INC	1-LSMNTGQ		1-47972319149	ISP	SA13U	SPORLAN 3/8" FLXSWIV NUT	1	Each	\$21.78	\$21.78
03/09/2017	UNITED REFRIGERATION INC	1-LSMNTGQ		1-47972319149	ISP	C413	SPORLAN 3/8" FLARE DRIER	1	Each	\$52.49	\$52.49
03/09/2017	UNITED REFRIGERATION INC	1-LSMNTGQ		1-47972319149	ISP	16X25X2VP8	P/A VALUE PLEAT FILTER 3	4	Each	\$3.22	\$12.88
03/09/2017	GRAINGER	1-LSMNTGQ		1-47972769242	ISP	Write-In Product	Write-In Product	3	Each	\$5.34	\$16.02
03/09/2017	GRAINGER	1-LSMNTGQ		1-47972769242	ISP	Write-In Product	Write-In Product	1	Each	\$6.69	\$6.69
03/09/2017	GRAINGER	1-LSMNTGQ		1-47972769242	ISP	Write-In Product	Write-In Product	1	Each	\$18.63	\$18.63
03/09/2017	GRAINGER	1-LSMNTGQ		1-47972972802	ISP	Write-In Product	Write-In Product	1	Each	\$72.26	\$72.26
03/07/2017	COGS-Materials	1-LSMNTGQ				029 13770 004	029 13770 004	4	Each	\$1.63	\$6.52
<b>TOTAL - MATERIAL</b>											\$207.27

**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
03/01/2017	Mileage	1-LSMNTGQ	1-LXCQYP0	Mileage - Company Vehicle		35.00	\$31.50
03/02/2017	Mileage	1-LXEOTZJ	1-LXZLM2C	Mileage - Company Vehicle		35.00	\$31.50
03/03/2017	Mileage	1-LXXF98D	1-LZ6IREN	Mileage - Company Vehicle		35.00	\$31.50
03/06/2017	Mileage	1-LZKINVC	1-M03DTPF	Mileage - Company		15.00	\$13.50

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Date	Accounting Event Name	Activity #	NxGen Row ID (Fee Tracker)	Product	Adjustment	Qty.	Ext Amt
03/09/2017	Mileage	1-LZKINVC	1-M1NKXE1	Vehicle Mileage - Company Vehicle		10.00	\$9.00
03/09/2017	Mileage	1-LZKINVC	1-M1NNEQU	Vehicle Mileage - Company Vehicle		10.00	\$9.00
03/16/2017	Mileage	1-M1Q0CJ3	1-M3IZ6GD	Vehicle 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
03/17/2017	1-48130382588		\$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**

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