



Job Detail Transaction Report

Service Request Number	1-57829091567
LOB / SR Type / Subtype	HVAC-Equipment / L&M / Custom Quote
Service Site	DUPONT EXPERIMENTAL STATION DUPONT EXPERIMENTAL

Report Date 06/10/2019

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SERVICE REQUEST (SR):

Status: Closed
Substatus: Closed
Hold Reason Code:
Hold Effective Date:
Agreement #:
Entitlement:
Priority: Routine
Requester: Coliukous, Chris
Service Address: RT 141 LANCASTER PIKE
WILMINGTON, DE, 19880-0000
Main Phone: (302) 218-9257
Work Phone:
Mobile Phone:
Email Address: chris.coliukous@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 #: 6501812408
Blanket PO #:
Work Order #:
Authorization #:
Tracking #:
Quoted Amount: \$4,244.27

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	\$3,701.15
COGS - Expense	\$0.00
COGS - Materials	\$202.53
COGS - SubContract	\$0.00
COGS - Fee Charges	\$63.00
Total COGS	\$3,966.68
Revenue \$	\$4,244.27
Margin \$	\$277.59
Margin %	7%

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

Service Requested:

CHILLER #7 RELIEF RETROFIT SERVICE & SUPPORT
Perform Lockout of CHILLER #7 in Coordination with DuPont
Transfer Chiller Charge to Central Recovery Tank per EPA Regs & Record Weight
Verify all Sections of Chiller are Depressurized & Purged with "House" Nitrogen
Disassemble & Remove the Two 2" Evaporator Rupture Disks, allowing for the Assigned Mechanical Contractor to proceed with Piping Modifications and Installation of the New Relief Header
All Piping & Installation of Piping; Rupture Disks, Relief Valves, and 3-Way Valve for the Evaporator shall be Provided by the Assigned Contractor and/or DuPont
Installation of the Two New Rupture Disks w/ appropriate Gaskets/Fasteners will be performed by Johnson Controls
(Appropriate Torque will be Determined, Set & Documented)
All interconnecting Piping must be in place and within specs for Misalignment / Strain, previous to Disk Installation
After all Relief Work is Complete, the Chiller will be Pressurized with Nitrogen
All new Refrigerant Connections will be Tested
Any Leaks discovered on the piping installed by the Mechanical Contractor, will be their responsibility to repair
After Piping & Relief Devices are Verified Leak Free, Nitrogen Pressure will be Safely Vented Outdoors
Entire Chiller will then be Evacuated, followed by a Vacuum Hold Test (Verifying Tightness and Dryness of System)
Refrigerant Charge will be Transferred back into the Chiller
EPA Refrigerant Documentation will be Provided

SERVICE PERFORMED SUMMARY:

ACTIVITY -	Assigned Technician	Activity #	Service Provided	Asset ID	Customer Tag	Serial	Model
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SCHEDULED DATE:						Number	Number
11/14/2017	Kevin Fraze	1-QKEG0HR					
12/01/2017	Kevin Fraze	1-QN4J5QJ	<p>11/17/17</p> <ul style="list-style-type: none"> - Completed Vapor Recovery of Chiller #7 - Isolated and Tagged Out #7's Refrigerant Recovery Valves - Transferred the Refrigerant left in the Common Recovery Liquid Line into the Central Recovery Tank to Weigh Total Charge Recovered from Chiller #7 <p>NET LIQUID= 7,050 LBS NET VAPOR= 1,280 LBS NET from LIQUID LINE= 310 LBS TOTAL R-134A RECOVERED= 8,640 LBS CHILLER DESIGN CHARGE= 8,970 LBS CHARGE DEFICIT= 330 LBS (3.68% LOW) LAST DATE OF CONFIRMED FULL CHARGE: 06/06/17 (220 Days)</p> <p>- Broke #7's Vacuum with Site Nitrogen and left 5psig Static Nitrogen Charge on Chiller until Old Relief System is Ready for Removal</p> <p>11/20/17</p> <ul style="list-style-type: none"> - Verified all Sections of Chiller were Depressurized & Purged with "House" Nitrogen - Disassembled & Removed the Original Evaporator Rupture Disks and Relief Valves <p>12/1/17 - 12/6/17</p> <ul style="list-style-type: none"> - Assisted MDAVIS with installation of New Relief Piping by providing a Nitrogen Purge and Ensuring Air was kept out of the Chiller 	1-EIZYN96	CHILLER #7	MRP626904	OM3000
12/05/2017	Kevin Fraze	1-QY1YBCB	<p>12/5/17</p> <ul style="list-style-type: none"> - Continuation of Nitrogen Purge during Relief Piping Installation - Assembled New BS&B 3" (185psig) SKR (316SS) into BS&B SRB-7RS (316SS) 300# Holders & Properly Torqued Pre-Assembly Bolts to 13 Ft/Lbs and prepped for Installation 	1-EIZYN96	CHILLER #7	MRP626904	OM3000
12/11/2017	Kevin Fraze	1-QN4J5R9	<p>12/7/17</p> <ul style="list-style-type: none"> - Prepped for ASME 31.5 Code Pressure Test of New Refrigerant Piping (1.1xDWP) w/Nitrogen * and purchased a 235psi Safety Relief Valve to be used with Nitrogen Cylinders. <p>* KBR & DuPont, in the end, decided not to preform this test</p> <p>12/27/17</p> <ul style="list-style-type: none"> - Installed the two New Rupture Disks with 1/16" GARLOCK GYLON 3504 (GB49B) Gaskets and Torqued to BS&B spec of 62 Ft/Lbs. Installed 1/8" GARLOCK GYLON 3504 (GB49B) Gaskets between mating flanges of the 3-Way Valve and Torqued to 165 Ft/Lbs <p>12/28/17</p> <ul style="list-style-type: none"> - Added approximately 40 Lbs of R-134A to Chiller, as Trace Gas - Brought Chiller Pressure up to 100 PSIG with "House" Nitrogen - Checked all New Welds, Flanges, and Rupture Disks for Leaks with Electronic Leak Detector and Soap Bubbles. - NO LEAKS FOUND - Safely released Nitrogen Pressure outdoors 	1-EIZYN96	CHILLER #7	MRP626904	OM3000
01/09/2018	Kevin Fraze	1-QN4J5RO	<p>1/5/18</p> <ul style="list-style-type: none"> - Performed a "Double" Evacuation of the Chiller (Atmospheric to 5,000 microns, back to Atmospheric with Nitrogen, then back to 5,000 microns and hold) - Vacuum held at 5,000 microns (Indicating an Absence of Moisture) 	1-EIZYN96	CHILLER #7	MRP626904	OM3000



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SCHEDULED DATE:						Number	Number
			<ul style="list-style-type: none"> - Continued Evacuation into Deep Vacuum over weekend 1/8/17 <ul style="list-style-type: none"> - Shut off and Isolated Vacuum Pump - Final Vacuum Level: 326 microns - Performed Vacuum Hold Test overnight 1/9/17 <ul style="list-style-type: none"> - Vacuum Level rose to 1240 microns over a period of 23hrs - Calculated Rise= 53.9 microns/hr (GOOD) - Continued Evacuation back into a Deep Vacuum overnight 1/10/17 <ul style="list-style-type: none"> - Isolated and detached Vacuum Pump from the Chiller - Re-torqued Rupture Disk Flanges - Re-Installed 900 Lbs (Vapor) of the Recovered R-134A Charge, bringing Chiller Pressure up to 38 PSIG Static 1/11/17 <ul style="list-style-type: none"> - Transferred 6,100 Lbs (Liquid) of the Recovered R-134A Charge back into the Chiller 1/12/17 <ul style="list-style-type: none"> - Completed Chiller Re-Charge by Transferring 1,970 Lbs left remaining in the Central Recovery Tank to the Chiller. TOTAL CURRENT R-134A CHARGE= 8,970 LBS (100% of Design) 				
01/25/2018	Kevin Frazee	1-RL72D0N	- Documentation	1-EIZYN96	CHILLER #7	MRP6269 04	OM3000
01/31/2018	William Strahota	1-S05Z007					



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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
11/10/2017	Kevin Fraze	1-QKEG0E0	1-QKMB7DZ	0N28	Regular / Regular / Mechanical Heavy		1.00	\$93.70
11/15/2017	Kevin Fraze	1-QKEG0JE	1-QLVGADZ	0N28	Regular / Regular / Mechanical Heavy		10.00	\$936.99
11/16/2017	Kevin Fraze	1-QKEG0K9	1-QM7QORR	0N28	Regular / Regular / Mechanical Heavy		8.00	\$749.59
11/17/2017	Kevin Fraze	1-QKEG0L4	1-QN2URV6	0N28	Regular / Regular / Mechanical Heavy		6.00	\$562.20
12/01/2017	Kevin Fraze	1-QN4J5QJ	1-QX8L9WA	0N28	Regular / Regular / Mechanical Heavy		0.25	\$23.43
12/01/2017	Kevin Fraze	1-QN4J5QJ	1-QX8L9WA	0N28	Regular / Regular / Mechanical Heavy		0.75	\$70.28
12/01/2017	Kevin Fraze	1-QN4J5QJ	1-QX8L9WA	0N28	Regular / Regular / Mechanical Heavy		-0.75	(\$70.28)
12/04/2017	Kevin Fraze	1-QN4J5QJ	1-QXVE9G0	0N28	Regular / Regular / Mechanical Heavy		4.00	\$374.80
12/05/2017	Kevin Fraze	1-QY1YBCB	1-QY78MSN	0N28	Regular / Regular / Mechanical Heavy		4.00	\$374.80
12/06/2017	Kevin Fraze	1-QN4J5QJ	1-QYK3PTV	0N28	Regular / Regular / Mechanical Heavy		2.00	\$187.40
12/07/2017	Kevin Fraze	1-QN4J5R9	1-QZP3U24	0N28	Regular / Regular / Mechanical Heavy		8.00	\$749.59
12/28/2017	Kevin Fraze	1-QY1YBCB	1-RJS1Q2X	0N28	Regular / Regular / Mechanical Heavy		3.00	\$281.10
12/29/2017	Kevin Fraze	1-QY1YBCB	1-RK73S9J	0N28	Overtime / Overtime / Mechanical Heavy		2.00	\$281.10
01/03/2018	Kevin Fraze	1-RL72D0N	1-RMT919J	0N28	Regular / Regular / Mechanical Heavy		3.00	\$281.10
01/05/2018	Kevin Fraze	1-RL72D0N	1-RMT91CM	0N28	Regular / Regular / Mechanical Heavy		6.00	\$562.20
01/08/2018	Kevin Fraze	1-RL72D0N	1-RP72ENH	0N28	Regular / Regular / Mechanical Heavy		2.00	\$187.40
01/11/2018	Kevin Fraze	1-QN4J5RO	1-RP72EQL	0N28	Regular / Regular / Mechanical Heavy		4.00	\$374.80
01/26/2018	Kevin Fraze	1-RL72D0N	1-RTTDJWP	0N28	Regular / Regular / Mechanical Heavy		0.25	\$23.43
Sub Total - Labor Kevin Fraze							63.50	\$6,043.63
11/10/2017	Time record not found	1-QKEG0E0	1-QKMD56R	Time record not found	Regular		-1.00	(\$51.72)
11/10/2017	Time record not found	1-QKEG0E0	1-QKMD4SG	Time record not found	Regular		-1.00	(\$41.98)
11/15/2017	Time record not found	1-QKEG0JE	1-QLVH1LM	Time record not found	Regular		-10.00	(\$517.19)
11/15/2017	Time record not found	1-QKEG0JE	1-QLVH1KF	Time record not found	Regular		-10.00	(\$419.80)
11/16/2017	Time record not found	1-QKEG0K9	1-QM7T6HT	Time record not found	Regular		-8.00	(\$335.84)
11/16/2017	Time record not found	1-QKEG0K9	1-QM7S222	Time record not found	Regular		-8.00	(\$413.75)
11/20/2017	Time record not found	1-QKEG0L4	1-QN2Z0E4	Time record not found	Regular		-6.00	(\$310.32)
11/20/2017	Time record not found	1-QKEG0L4	1-QN2YZP7	Time record not found	Regular		-6.00	(\$251.88)
Sub Total - Labor Time record not found							-50.00	(\$2,342.48)
TOTAL - LABOR							13.50	\$3,701.15

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
11/18/2017	UNITED REFRIGERATION INC	1-QKEG0K9		1-57966519378	ISP	LT76732	LOCTITE SILVER GRADE ANT	1	Each	\$16.23	\$16.23
11/18/2017	UNITED REFRIGERATION INC	1-QKEG0K9		1-57966519378	ISP	Write-In Product	Write-In Product	-1	Each	\$16.23	(\$16.23)
11/18/2017	UNITED REFRIGERATION INC	1-QKEG0K9		1-57966519378	ISP	LT76759	LOCTITE SILVER GRADE ANT	1	Each	\$16.45	\$16.45
11/18/2017	UNITED	1-QKEG0K9		1-57966519378	ISP	Write-In Product	Write-In	-1	Each	\$16.45	(\$16.45)



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Date	Vendor / Buy Site	Activity #	Adjustment	Order #	Type of Order	Product	Description	Qty.	UOM	Unit Cost	Ext Amt
	REFRIGERATION INC						Product				
11/18/2017	UNITED REFRIGERATION INC	1-QKEG0K9		1-57966519378	ISP	NCB	NC BLUE LEAK DETECTOR 32	1	Each	\$5.40	\$5.40
11/18/2017	UNITED REFRIGERATION INC	1-QKEG0K9		1-57966519378	ISP	Write-In Product	Write-In Product	-1	Each	\$5.40	(\$5.40)
11/18/2017	UNITED REFRIGERATION INC	1-QKEG0K9		1-57966519378	ISP	UR384	BRASS RED FEMALE UNION 1	2	Each	\$4.44	\$8.88
11/18/2017	UNITED REFRIGERATION INC	1-QKEG0K9		1-57966519378	ISP	Write-In Product	Write-In Product	-2	Each	\$4.44	(\$8.88)
11/18/2017	UNITED REFRIGERATION INC	1-QKEG0K9		1-57966519378	ISP	US48	BRASS SWIVEL NUT UNION 1	2	Each	\$4.21	\$8.42
11/18/2017	UNITED REFRIGERATION INC	1-QKEG0K9		1-57966519378	ISP	Write-In Product	Write-In Product	-2	Each	\$4.21	(\$8.42)
11/21/2017	GRAINGER	1-QKEG0L4		1-58014511324	ISP	15F796	Marking Tape, Roll, 2In W, 108 ft. L	1	Each	\$55.00	\$55.00
11/21/2017	GRAINGER	1-QKEG0L4		1-58014511324	ISP	Write-In Product	Write-In Product	-1	Each	\$55.00	(\$55.00)
11/21/2017	GRAINGER	1-QKEG0L4		1-58014511324	ISP	15F743	Marking Tape, 2In W, 108 ft. L, Red	1	Each	\$43.58	\$43.58
11/21/2017	GRAINGER	1-QKEG0L4		1-58014511324	ISP	Write-In Product	Write-In Product	-1	Each	\$43.58	(\$43.58)
12/07/2017	MERCER GASKET & SHIM	1-QN4J5QJ		1-58699250771	PCARD	Write-In Product	Gaskets	1		\$127.77	\$127.77
12/07/2017	MERCER GASKET & SHIM	1-QN4J5QJ		1-58699250771	PCARD			0			\$8.78
12/08/2017	UNITED REFRIGERATION INC	1-QY1YBCB		1-58719789567	ISP	3020235	SUPERIOR RELIEF VLV 1/2N	1	Each	\$65.98	\$65.98
TOTAL - MATERIAL											\$202.53

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
11/10/2017	Mileage	1-QKEG0E0	1-QKMD4ME	Mileage - Company Vehicle		-5.00	(\$4.50)
11/10/2017	Mileage	1-QKEG0E0	1-QKMB7GF	Mileage - Company Vehicle		5.00	\$4.50
11/15/2017	Mileage	1-QKEG0JE	1-QLVGAGZ	Mileage - Company Vehicle		20.00	\$18.00
11/15/2017	Mileage	1-QKEG0JE	1-QLVH28M	Mileage - Company Vehicle		-20.00	(\$18.00)
11/16/2017	Mileage	1-QKEG0K9	1-QM7QOR3	Mileage - Company Vehicle		15.00	\$13.50
11/16/2017	Mileage	1-QKEG0K9	1-QM7SZ0V	Mileage - Company Vehicle		-15.00	(\$13.50)

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Date	Accounting Event Name	Activity #	NxGen Row ID (Fee Tracker)	Product	Adjustment	Qty.	Ext Amt
11/20/2017	Mileage	1-QKEG0L4	1-QN2YIJH	Mileage - Company Vehicle		-15.00	(\$13.50)
11/20/2017	Mileage	1-QKEG0L4	1-QN2URQ1	Mileage - Company Vehicle		15.00	\$13.50
12/04/2017	Mileage	1-QN4J5QJ	1-QXVE9JA	Mileage - Company Vehicle		10.00	\$9.00
12/05/2017	Mileage	1-QY1YBCB	1-QY78MVX	Mileage - Company Vehicle		10.00	\$9.00
12/11/2017	Mileage	1-QN4J5R9	1-QZP5QVA	Mileage - Company Vehicle		10.00	\$9.00
12/29/2017	Mileage	1-QY1YBCB	1-RJS1Q5N	Mileage - Company Vehicle		10.00	\$9.00
12/30/2017	Mileage	1-QY1YBCB	1-RK73SC0	Mileage - Company Vehicle		5.00	\$4.50
01/06/2018	Mileage	1-RL72D0N	1-RMT91BZ	Mileage - Company Vehicle		10.00	\$9.00
01/06/2018	Mileage	1-RL72D0N	1-RMT91F2	Mileage - Company Vehicle		5.00	\$4.50
01/14/2018	Mileage	1-RL72D0N	1-RP72EPY	Mileage - Company Vehicle		5.00	\$4.50
01/14/2018	Mileage	1-QN4J5RO	1-RP72ET1	Mileage - Company Vehicle		5.00	\$4.50
Sub Total - Mileage - Company Vehicle						70.00	\$63.00
TOTAL - FEE CHARGES						70.00	\$63.00

AR Invoices

Date	Invoice #	Related Invoice #	Revenue	Invoice / Credit Memo Sub - Total	Tax	Ext Amt
01/31/2018	1-60969797460		\$4,244.27	\$4,244.27	\$0.00	\$4,244.27
			\$4,244.27	\$4,244.27	\$0.00	TOTAL - INVOICED \$4,244.27

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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