



Job Detail Transaction Report

Service Request Number	1-47874641859
LOB / SR Type / Subtype	HVAC-Equipment / L&M / Custom Quote
Service Site	DUPONT EXPERIMENTAL STATION DUPONT EXPERIMENTAL

Report Date 04/02/2017

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SERVICE REQUEST (SR):

Status: Closed
Substatus: Closed
Hold Reason Code:
Hold Effective Date:
Agreement #:
Entitlement:
Priority: Routine
Requester: Barnes, PAUL
Service Address: RT 141 LANCASTER PIKE
WILMINGTON, DE, 19880-0000
Main Phone: (302) 218-9257
Work Phone: (302) 218-9996
Mobile Phone:
Email Address:

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 #: 6501716828
Blanket PO #:
Work Order #:
Authorization #:
Tracking #:
Quoted Amount: \$1,432.06

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	\$1,092.25
COGS - Expense	\$0.00
COGS - Materials	\$0.00
COGS - SubContract	\$0.00
COGS - Fee Charges	\$45.00
Total COGS	\$1,137.25
Revenue \$	\$1,432.06
Margin \$	\$294.81
Margin %	21%

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

Service Requested:

(6501716828) E306 RTP Chilled Water Loop:

Calculate appropriate System Fill Pressure based on height of highest coil and specific gravity of the Chilled Water Isolate/Drain Expansion Tank
Increase Expansion Tank Bladder Pressure to System Fill Pressure with Nitrogen and Document
Set Glycol Feeder to System Fill Pressure and Engage
Manually Run Chilled Water Pumps in YORK RTP Chiller at various speeds with all Air Vents open
Increase Water Temperature as needed (w/assistance of DuPont) to facilitate air removal
Monitor process When all air is removed, isolate airvents required by DuPont, and reopen Expansion Tank to System Train and Provide Literature as needed to DuPont Personnel

SERVICE PERFORMED SUMMARY:

ACTIVITY - SCHEDULED DATE:	Assigned Technician	Activity #	Service Provided	Asset ID	Customer Tag	Serial Number	Model Number
03/23/2017	Kevin Frazee	1-LZRDHJT	E306 RTP Chilled Water Loop Service DUPONT PO#: 6501716828 JCI QUOTE#: 1-LWFYWDD	11531K653688 76	BLDG. 306 RTP CHILLER	11531K65 368876	YCAL0046EE 46XEB/R410 A



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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"> Calculated appropriate System Fill Pressure based on height of highest coil and specific gravity of the Chilled Water (20PSIG) Isolated/Drained Expansion Tank, & Opened to Atmosphere Increased Expansion Tank Bladder Pressure to Calculated System Fill Pressure with Site Compressed Air and Documented at (20PSIG) Reconnected Expansion Tank Piping to System, but left Valved Off Setup the Glycol Feeder "AUTO" Mode to: <ul style="list-style-type: none"> Add @ 8PSIG Cut-Out @ 20PSIG * *(System Fill Pressure) Manually Ran Chilled Water Pumps in YORK RTP Chiller with all System Air Vents open Allowed Pumps to Run Overnight 				
03/24/2017	Kevin Frazee	1-M5D8LO9	<ul style="list-style-type: none"> Noted Decrease in Chilled Water Pressures, Indicating Air had been Removed with Pump running overnight Manually Added Glycol to Increase System Pressure back to 20 PSIG (w/ Chilled Water Pump Running) Reopened Expansion Tank Isolation Valve Closed all Air Vent Isolation Valves, with exception of the Air Separator Vent (Discharge is piped to Glycol Feeder Tank) Conducted a Hydronic System Performance Test & Noted the Following: <p>BOTH COOLING COIL 3-WAY VALVES @ 0% BYPASS: ENECON FLOW METER READING= 79 GPM ANDOVER FLOW SETPOINT= 80 GPM PUMP VFD SPEED= 60 HZ PUMP TOTAL DYNAMIC HEAD= 55.4' (24 PSID Across Pump)</p> <p>BOTH COOLING COIL 3-WAY VALVES @ 100% BYPASS: ENECON FLOW METER READING= 55 GPM ANDOVER FLOW SETPOINT= 80 GPM PUMP VFD SPEED= 60 HZ PUMP TOTAL DYNAMIC HEAD= 60.0' (26 PSID Across Pump)</p> <p>CHILLED WATER SYSTEM DESIGN POINT: 80 GPM @ 57.9' HEAD</p> <p>COOLING COIL DESIGN SPECS: CC 6-1: 25.6 GPM @ 4.67' (2.022 PSID) CC 7-1: 55.5 GPM @ 6.60' (2.858 PSID)</p> <p>BELIMO 3-WAY VALVES INSTALLED: CC 6-1: B320 3/4" (Cv = 14 / 70% in Bypass) CC 7-1: B325 1" (Cv = 30 / 70% in Bypass)</p> * Substantial Turbulence was Audibly Noticed as soon as 3-Way Valves began to Bypass. The Chilled Water Pump's inability to achieve it's Flow Setpoint w/ Valves in Bypass, indicates Increased System Friction. Whether or not this was part of Design should be Verified. 	11531K653688 76	BLDG. 306 RTP CHILLER	11531K65 368876	YCAL0046EE 46XEB/R410 A
03/31/2017	Chris Cifax	1-M9A7TW0					



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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
03/23/2017	Kevin Frazee	1-LZRDHJT	1-M65Y3FS	0N28	Regular / Regular / Mechanical Heavy		8.00	\$728.17
03/24/2017	Kevin Frazee	1-M5D8LO9	1-M6I4L38	0N28	Regular / Regular / Mechanical Heavy		4.00	\$364.08
Sub Total - Labor Kevin Frazee							12.00	\$1,092.25
TOTAL - LABOR							12.00	\$1,092.25

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
03/23/2017	Mileage	1-LZRDHJT	1-M65DPLU	Mileage - Company Vehicle		30.00	\$27.00
03/24/2017	Mileage	1-M5D8LO9	1-M6I4KZP	Mileage - Company Vehicle		20.00	\$18.00
03/29/2017	Mileage	1-LZRDHJT	1-M7WDCGR	Mileage - Company Vehicle		30.00	\$27.00
03/31/2017	Mileage	1-LZRDHJT	1-M7WDCGR	Mileage - Company Vehicle		-30.00	(\$27.00)
Sub Total - Mileage - Company Vehicle						50.00	\$45.00
TOTAL - FEE CHARGES						50.00	\$45.00

AR Invoices

Date	Invoice #	Related Invoice #	Revenue	Invoice / Credit Memo Sub - Total	Tax	Ext Amt
03/31/2017	1-48451131867		\$1,432.06	\$1,432.06	\$0.00	\$1,432.06
			\$1,432.06	\$1,432.06	\$0.00	TOTAL - INVOICED \$1,432.06

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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