



QUOTED SERVICE REPORT



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Service Request Number: 1-47874641859

Status: Completed

Requestor: PAUL Barnes

JOHNSON CONTROLS SALISBURY WILMINGTON CB - 0N28

812 First State Blvd

Wilmington, DE 19804-3573

(866) 589-9275

Service Site:

DUPONT EXPERIMENTAL STATION

DUPONT EXPERIMENTAL

Rt 141 Lancaster Pike

Wilmington, DE 19880-0000

Bill To:

E I DUPONT DENEMOURS CO

1325779

Attn Accounts Payable Department

Po Box 80040

Wilmington, DE 19880-0040

Purchase Order: 6501716828

Blanket Purchase Order:

Customer Authorization:

Customer Work Order:

Quoted Amount: \$1,432.06

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

For Questions Regarding Service, Please Contact:

Version: Release # PHL 3

Lynn Dolphin

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Service Provided:				
Date	Activity Number	Activity Status	Work Performed	By
03/23/2017	1-LZRDHJT	Completed	E306 RTP Chilled Water Loop Service DUPONT PO#: 6501716828 JCI QUOTE#: 1-LWFYWDD <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: 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	Kevin Frazee

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Service Provided:				
Date	Activity Number	Activity Status	Work Performed	By
03/24/2017	1-M5D8LO9	Completed	<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: <ul style="list-style-type: none"> 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) 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) CHILLED WATER SYSTEM DESIGN POINT: 80 GPM @ 57.9' HEAD 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) 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) 	Kevin Frazee

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Service Provided:				
Date	Activity Number	Activity Status	Work Performed	By
			* 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.	

Materials Used:	
Description	

Refrigerant Tracking:									
Activity #	Action Taken	Type	Amount	Asset ID	Customer Tag	Serial Number	Model Number	Leak Location	Leak Rate
No Refrigerant Activity Recorded To Date									

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Service Order Warranty Terms and Conditions

PARTS WARRANTY:

Johnson Controls, Inc. (JCI) warrants that original equipment, parts or components manufactured or labeled by JCI shall be free from defects in material and workmanship under normal usage and proper installation and maintenance for a period of one (1) year from the date of shipment. Equipment, parts or components not manufactured or labeled by JCI shall carry a warranty from defects in material and workmanship under normal usage and proper installation and maintenance for a period of ninety (90) days from the date of shipment. Notwithstanding the foregoing, in the event JCI is reasonably able to identify a warranty for a period longer than the ninety (90) days applicable to equipment, parts or components not manufactured or labeled by JCI, it will assign all assignable rights under such warranty to Customer and reasonably cooperate in the enforcement of any warranty claim. Recertified or replacement parts installed on equipment and still under the original equipment manufacturer's warranty are covered for ninety (90) days or the remainder of the original equipment manufacturer warranty period, whichever is longer. For large tonnage chillers, JCI will warrant under normal usage and proper installation and maintenance for a period of one (1) year from the date of shipment: screw compressors, motors, control panels and components, VFD's and components and Liquid Cooled Solid State Starters and components. For small tonnage chillers, JCI will warrant under normal usage and proper installation and maintenance for a period of one (1) year from the date of shipment: scroll compressors, condenser coils, control panels and components, screw compressors (DXS and Mustang), and fan motors. In the event of a valid warranty claim, the Customer's remedy shall, at JCI's sole discretion and subject to the exclusions herein, be limited to repair or replacement of the subject equipment, part or component conditioned upon the return to JCI of any defective equipment, part or component. This Parts Warranty does not cover any shipping, handling or transportation charges or any associated labor costs.

LABOR WARRANTY:

Johnson Controls, Inc. (JCI) warrants its workmanship or that of its agents in relation to installation of materials for a period of ninety (90) days from date of installation or with respect to service work for a period of ninety (90) days from the date of service. Customer acknowledges that re-performance shall be its exclusive and only remedy with regards to any services provided by JCI. Customer shall bear all labor costs associated with the repair or replacement of failed material that is outside the scope of this express labor warranty. All warranty labor shall be executed during JCI normal business hours.

These warranties do not extend to any equipment which has been repaired by others, abused, altered, or misused in any way, or which has not been properly and reasonably maintained.

THESE WARRANTIES ARE IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO THOSE OF MERCHANTABILITY AND FITNESS FOR A SPECIFIC PURPOSE. UNDER NO CIRCUMSTANCES SHALL JCI BE LIABLE FOR ANY SPECIAL, INDIRECT, OR CONSEQUENTIAL DAMAGES ARISING FROM OR RELATING TO ANY DEFECT IN MATERIAL OR WORKMANSHIP OF EQUIPMENT OR THE PERFORMANCE OF SERVICES.

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