



Report Date: 08/30/2018

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## SERVICE REPAIR REPORT

**Service Request Number:** 1-69531626381

**Status:** Scheduled

**Requestor:** Raul Cozza

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:**

**Blanket Purchase Order:**

**Customer Authorization:**

**Customer Work Order:**

**Service Requested:**

Due: 6/29/18

Desc: Absorber 3 refrigerant pump motor failure. Manual solution dilution was required. Customer needed additional OT support and service for absorbers.

Svc Hrs: 24/7

Access: None

Contact: Raul Cozza (302) 695-7842

Caller: Kevin Frazee (302) 353-0315

For Questions Regarding Service, Please Contact:  
Version: Release # PHL 3

Lynn Dolphin

(866) 589-9275



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Service Provided:				
Date	Activity Number	Activity Status	Work Performed	By
07/02/2018	1-VXXC2BD	Completed	<p>ABSORBER #3 REFRIG PUMP FAILURE - EMERGENCY SERVICE SR# 1-69531626381</p> <p>6/29/18: After running ABS#3 for approximately 4hrs, and reaching 1100 tons, at the conclusion of a routine Operational Inspection, the Refrigerant Pump Overloads unexpectedly opened. This was before it had entered Dilution Mode. The YORK controls responded appropriately by shutting off the steam and all solution pumps. Shut off / locked out main power to YORK Panel. Reset Refrig Pump Overloads. Reapplied power. Inrush current to motor was 47 Amps, which tripped the overloads again. Locked out power again. reversed phase rotation of motor (in an attempt to free the rotor, if mechanically bound). Restored power and overloads tripped again 44 Amps. Locked out power. Removed motor wires from starter, electrically isolating it. Inspected motor wiring at pump, winding resistance, and megohms to ground. Winding resistance balance was out of spec (likely due to partial short between phases) Due to the Absorber running near full load at the time of shutdown, with the majority of the refrigerant separated out of the solution (stuck in the refrigerant tank), with no means of running a normal dilution cycle, a manual dilution was require to prevent catastrophic crystallization. Set up hoses and portable utility pump. Evacuated lines and began transferring refrigerant from the Tank directly into the Absorber Section. Monitored transfer process, ensuring no possible ingress of air.</p>	Kevin Frazee

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Service Provided:				
Date	Activity Number	Activity Status	Work Performed	By
08/30/2018	1-XWBHDZG	Completed	6/29/18 (cont.):  It took approximately 2Hrs for the external pump to bring the Refrigerant Level from above the Top Sightglass (Full Tank) to a Normal "Post-Dilution" Level just above the Bottom Sightglass (Mostly Empty Tank). Isolated and Dismantled the improvised External Transfer System. Reapplied Power to the Absorber and manually engaged all three Solution Pumps and allowed them to run for approximately one hour (to ensure a thorough mix & dilution of all Bromide throughout the machine). Based on the running solution levels observed, it was evident crystallization had not occurred to the the extent of complete blockage of flow. At the conclusion of the 1Hr circulation, several solution samples were pulled, specific gravity measured, and it was verified that sufficient dilution had been attained to prevent damage to the machine, by idly cooling down to room temp. Disengaged the solution pumps, safed off the Absorber that it could not be ran, had the DuPont Operator close the main steam valves, cleaned up the job, and noted in the Operations Log book what happened and that #3 would be down until further notice.  7/2/18: Returned the following Monday. Verified the Refrig Motor Winding Resistance Imbalance: T1-T2= 4.1 ohms T1-T3= 7.5 ohms T2-T3= 7.6 ohms 6 Megs to GRND  Informed Customer of what happened, what was done, & what is needed to make the Absorber Operational (a New Pump Motor).	Kevin Frazee

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Service Provided:				
Date	Activity Number	Activity Status	Work Performed	By
Provided Quote for Motor Replacement.				

Labor Details:								
Date	Activity #	Hours	Type	Miles	Asset ID	Customer Tag	Serial Number	Model Number
	1-VXXC2BD			10	1-DS0Y6B	ABSORBER #3	GADM233620	YPC ST 22G
06/29/2018		6.75	Overtime					
06/30/2018		2.25	Overtime					
07/02/2018		2	Regular					
	1-XWBHDZG			1	1-DS0Y6B	ABSORBER #3	GADM233620	YPC ST 22G
08/30/2018		.5	Regular					
<b>TOTALS TO DATE</b>		11.5		11				

Materials Used:			
Activity #	Qty	UOM	Description

Tool Charges: 
 Disposal, Environmental & Usage Charges\*: 
 Fuel Surcharge: 
 Miscellaneous:

Zone/Trip/Truck Charges: 
 Shipping /Handling Charges: 
 Per Diem:

\* Disposal, Environmental & Usage Charges may include one or more of the following: miscellaneous electrical, pneumatic, welding supplies, hardware materials, cleaning supplies, or refrigerant reclaim disposal.

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Refrigerant Tracking:											
Activity #	Action Taken	Type	Amount	Asset ID	Customer Tag	Serial Number	Model Number	Circuit ID	Circuit Tag	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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