



Report Date 12/19/2018

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QUOTED SERVICE REPORT

*Scan the QR Code to see new offerings

Service Request Number: 1-81042969595

Status: Completed

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: 6501952021

Blanket Purchase Order:

Customer Authorization:

Customer Work Order:

Quoted Amount: \$4,906.07

Service Requested:

LABOR/MATERIAL INVOLVED IN RESEARCH/TESTING ABSORBER REFRIGERANT (H2O) TREATMENT

-

Service Provided:

Date	Activity Number	Activity Status	Work Performed	By
09/21/2018	1-ZCZCMAT	Completed		Kevin Fraze
10/18/2018	1-ZRQT5TO	Completed		Kevin Fraze

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
10/31/2018	1-118AW3OE	Completed	<p>L&M INVOLVED IN RESEARCH/TESTING ABSORBER REFRIGERANT (H2O) TREATMENT JCI QUOTE#: 1-1183KAEL SR#: 1-81042969595</p> <p>09/27/18 to 10/03/18: - Due to the pH level of the Ammonia contaminated Absorber Refrigerant (H2O) being between 10-11 (higher than the process sewer max level of 9), the original ABSORBER AMMONIA REMOVAL JOB (JCI Quote#: 1-Z91E3GO) was put on hold *The Ammonia Removal Quote specified that DuPont would be responsible for Disposal, if the Refrigerant (H2O) could not be directly dumped into the process sewer* - Investigated means by which DuPont could proceed with the Ammonia Project:</p> <ul style="list-style-type: none"> ● Use of a Dual-Bed De-Ionizer with Refrigerant recirculated back into Absorbers (Poisoning of Resin-Beds by dissolved solids in Refrigerant was a concern, so distillation by means of internal Absorber Refrig Blowdown was performed while monitoring & testing Refrigerant Conductivity, Dissolved Solids, & pH. The lowest levels obtained were approximately 500 TDS (which is the Max limit suggested by Culligan), making Dual-Bed Recirc. process non-viable) ● pH reduction of Refrigerant to levels below Process Sewer Max via Aeration. Testing was performed on various quantities of Refrigerant. Duration of aeration time, Ammonia Levels, pH & Conductivity readings were taken and recorded. ● QTY-2 Refrig samples were taken from ABS#1 and sent out for chemical analysis to determine chemical composition makeup of dissolved solids. Reports were sent to DuPont 	Kevin Frazee

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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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