



QUOTED SERVICE REPORT

*Scan the QR Code to see new offerings

Service Request Number: 1-83636066541

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: 6501956331

Blanket Purchase Order:

Customer Authorization:

Customer Work Order:

Quoted Amount: \$3,168.90

Service Requested:

CHILLER #6 CONDENSER TUBE PLUGGING

ORDER, PICKUP, & DELIVER Qty-1 (10-Pack) of CPI/PERMA "Pop-A-Plug" V-649-N (90/10 Cu/Ni) Tube Plugs (1,000 PSI Rated) w/ matched Precision Brushes

INSTALL Tube Plugs (Qty= 2 per Tube) in the TWO Tubes determined by Eddy-Current Analysis (performed 12/17/18 - 12/20/18)

Tube Ends will be thoroughly cleaned, precisely honed to appropriate ID, blown out, completely dried with Nitrogen, & internally inspected via Borescope

CPI/PERMA "Pop-A-Plug" V-649-N (1,000PSI Rated) Plugs will be precisely expanded into both ends of each tube

A Record will be made and provided for the Customer with which Tubes were Plugged

Qty-6 Plugs will be left with the Customer for future use*

* These Plugs can ONLY be used for CHILLER #6's Condenser/Sub-Cooler, because they are Copper-Nickel. All other Chiller Tubes (both Evap and Condensers) in the Powerhouse are Copper *

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
12/21/2018	1-12E109FE	Completed	<p>CHILLER #6 CONDENSER TUBE PLUGGING JCI QUOTE#: 1-12DEHJP4 SR#: 1-83565930588</p> <p>12/21/2018:</p> <ul style="list-style-type: none"> • Ordered, Picked up from Supplier in Hatfield, PA, & Delivered Qty-1 (10-Pack) of CPI/PERMA "Pop-A-Plug" V-649-N (90/10 Cu/Ni) Tube Plugs (1,000 PSI Rated) w/ matched Precision Brushes • Installed Tube Plugs (Qty= 2 per Tube) in the TWO Condenser Tubes determined by Eddy-Current Analysis* to have indications of ID Pits >40% Wall Thickness * (Analysis performed 12/17/18 - 12/20/18) • Tube Ends were thoroughly cleaned, precisely honed to appropriate ID, blown out, completely dried with Nitrogen, & internally inspected via Borescope • CPI/PERMA "Pop-A-Plug" V-649-N (1,000PSI Rated) Plugs were precisely expanded into both ends of each tube <p>TUBES PLUGGED:</p> <ol style="list-style-type: none"> 1) Row-10 / Tube-31 (ID PIT 40% - 59%) 2) Row-11 / Tube-13 (ID PIT 40% - 59%) <ul style="list-style-type: none"> - Perspective facing Opposite INLET/OUTLET End of Condenser - - Row Numbering: Top to Bottom - - Tube Numbering: Left to Right - <ul style="list-style-type: none"> • Plugging of these tubes was noted in the Eddy Current Analysis Report emailed to DuPont 	Kevin Frazee

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Date	Activity Number	Activity Status	Work Performed	By
			<ul style="list-style-type: none"> Qty-6 Plugs were left with the Customer for future use* <p>* These Plugs can ONLY be used for CHILLER #6's Condenser/Sub-Cooler, because they are Copper-Nickel. All other Chiller Tubes (both Evap and Condensers) in the Powerhouse are Copper *</p>	

Materials Used:
Description
BRUSH KIT
BOX TEN 2 PLUGS

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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