



## QUOTED SERVICE REPORT



\*Scan the QR Code to see new offerings

**Service Request Number:** 1-48107179309

**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:** 6501717034

**Blanket Purchase Order:**

**Customer Authorization:**

**Customer Work Order:**

**Quoted Amount:** \$9,703.50

**Service Requested:**

6501717034

REMOVAL & REPLACEMENT OF ALL ABSORBER RUPTURE DISKS (QTY8)

In accordance with DuPont's Vessel Relief Device PM Program, both (Qty2) OSECO Rupture Disks on ABSORBERS #1#4 shall be REMOVED and REPLACED with NEW disks (PROVIDED BY DUPONT)

SCOPE PER ABSORBER (Performed ONE at a Time):

Perform LOCKOUT per DuPont & JCI Requirements  
Safely RELEASE Nitrogen Blanket from ABSORBER & Ensure Vessel is Completely Depressurized  
DISMANTLE Rupture Disk Companion Flanges & REMOVE OSECO Rupture Disk Assemblies  
DISASSEMBLE OSECO (PRDI) Holders, Exposing (PLR) Disk  
INSPECT Condition of OLD Disks and Holders (Note any Damage Observed)  
If Disk Holders are in GOOD Condition, thoroughly CLEAN as per OSECO specs, INSTALL NEW Disks (PROVIDED BY DUPONT) into Holders  
INSPECT Condition and thoroughly CLEAN 6" Companion Flanges  
Reinstall OSECO Holders w/ NEW Disks, Appropriate Ring Gaskets, & NEW Flange Bolts  
Properly TORQUE companion Flanges to OSECO's specifications  
PRESSURIZE ABSORBER Vessel with Nitrogen Pressure and R134a Trace Gas  
LEAK TEST Rupture Disks with both Electronic Detector & Soap Bubbles  
Safely RELEASE Nitrogen & reduced Absorber pressure below atmospheric with vacuum pump  
APPLY a thin coat of Vacuum Sealant around Disk Holder Gasket & Flange to Increase certainty of Air Molecule Seal  
Provide DuPont with any DOCUMENTATION requested

\*\*\*Any scaffolding necessary to perform work safely will be provided by DuPont\*\*\*

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Lynn Dolphin

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Service Provided:				
Date	Activity Number	Activity Status	Work Performed	By
03/17/2017	1-M3LRTA7	Completed	ABSORBER RUPTURE DISK REPLACEMENT JOB DUPONT PO#: 6501717034 JCI QUOTE#: 1-KWS42DH  • Ordered materials & prepped for job.  NEW DISKS PROVIDED BY DUPONT: OSECO PART#: PLR06-9106-C BURST PRESSURE RATINGS: 13.30 PSIG @ 72F 12.00 PSIG @ 250F  GASKET MATERIAL: GARLOCK 5500 SERIES 6" / 150# / 1/16" Thickness  COMPANION FLANGE BOLT TORQUE (Approved by OSECO): 120 FT/LBs	Kevin Frazee
03/20/2017	1-M4DTS4J	Completed	ABSORBER #4:  • Performed Replacement of Both Rupture Disks as per Quoted Scope • No substantial damage was observed on Old Disks, Holders, or Flanges • Ensured Vent Piping was Clean and Clear of Debris before Installing New Disks	Kevin Frazee

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Service Provided:				
Date	Activity Number	Activity Status	Work Performed	By
03/21/2017	1-M4Y9EAI	Completed	ABSORBER #4:  <ul style="list-style-type: none"> <li>• Pressurized Vessel with 18lbs of R134a Trace Gas and Nitrogen up to 9 PSIG</li> <li>• Leak Tested Rupture Disks with both Electronic Detector &amp; Soap Bubbles (No Leaks)</li> <li>• Applied a thin coat of Vacuum Sealant around Disk Holder Gasket &amp; Flange</li> </ul> * Nitrogen pressure will be left in Absorber until Contract Startup Maintenance is Performed	Kevin Frazee
03/22/2017	1-M4YFQYI	Completed	ABSORBER #3:  <ul style="list-style-type: none"> <li>• Performed Replacement of Both Rupture Disks as per Quoted Scope</li> <li>• No substantial damage was observed on Old Disks, Holders, or Flanges</li> <li>• Ensured Vent Piping was Clean and Clear of Debris before Installing New Disks</li> <li>• Pressurized Vessel with 15lbs of R134a Trace Gas and Nitrogen up to 9 PSIG</li> <li>• Leak Tested Rupture Disks with both Electronic Detector &amp; Soap Bubbles (No Leaks)</li> <li>• Applied a thin coat of Vacuum Sealant around Disk Holder Gasket &amp; Flange</li> </ul> * Nitrogen pressure will be left in Absorber until Contract Startup Maintenance is Performed	Kevin Frazee
03/24/2017	1-M4YFR1W	Completed	<ul style="list-style-type: none"> <li>• Picked up additional materials and Prepped for remaining work</li> </ul>	Kevin Frazee

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Service Provided:				
Date	Activity Number	Activity Status	Work Performed	By
03/27/2017	1-M7794GX	Completed	ABSORBER #2:  <ul style="list-style-type: none"> <li>• Performed Replacement of Both Rupture Disks as per Quoted Scope</li> <li>• A small stress fracture was observed on the Top Rupture Disk Holder Backing Plate (Pictures where taken. No repairs recommended at this time)</li> <li>• No other substantial damage was observed on Old Disks, Holders, or Flanges</li> <li>• Ensured Vent Piping was Clean and Clear of Debris before Installing New Disks</li> <li>• Pressurized Vessel with 15lbs of R134a Trace Gas and Nitrogen up to 9 PSIG</li> <li>• Leak Tested Rupture Disks with both Electronic Detector &amp; Soap Bubbles (No Leaks)</li> <li>• Applied a thin coat of Vacuum Sealant around Disk Holder Gasket &amp; Flange</li> </ul> <p>* Nitrogen pressure will be left in Absorber until Contract Startup Maintenance is Performed</p>	Kevin Frazee
03/28/2017	1-M7B5ZUD	Completed	ABSORBER #1:  <ul style="list-style-type: none"> <li>• Performed Replacement of Top Rupture Disk as per Quoted Scope</li> <li>• No substantial damage was observed on Old Disk, Holder, or Flanges</li> <li>• Ensured Vent Piping was Clean and Clear of Debris before Installing New Disk</li> </ul>	Kevin Frazee

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Service Provided:				
Date	Activity Number	Activity Status	Work Performed	By
03/29/2017	1-M7TEBBD	Completed	ABSORBER #1:  <ul style="list-style-type: none"> <li>Performed Replacement of Bottom Rupture Disk as per Quoted Scope</li> <li>No substantial damage was observed on Old Disk, Holder, or Flanges</li> <li>Ensured Vent Piping was Clean and Clear of Debris before Installing New Disk</li> <li>Pressurized Vessel with 15lbs of R134a Trace Gas and Nitrogen up to 9 PSIG</li> <li>Leak Tested Rupture Disks with both Electronic Detector &amp; Soap Bubbles (No Leaks)</li> </ul> * Nitrogen pressure will be left in Absorber until Contract Startup Maintenance is Performed	Kevin Frazee
03/30/2017	1-M86MQJ9	Completed	ABSORBER #1:  <ul style="list-style-type: none"> <li>Applied a thin coat of Vacuum Sealant around Disk Holder Gasket &amp; Flange</li> </ul> ALL ABSORBERS:  <ul style="list-style-type: none"> <li>Cleaned up job. Ensured all Absorbers were safed off. Removed safety locks.</li> </ul>	Kevin Frazee
03/31/2017	1-M8XPS5M	Completed	<ul style="list-style-type: none"> <li>Completed Documentation of Work Performed</li> </ul>	Kevin Frazee

Materials Used:	
Description	
DOW 1GAL PROPYLENE INHIB	
ARMACELL 1/2PT ADHESIVE	

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Materials Used:
<b>Description</b>
R-134a HFC Refrigerant / R-134a
R-134a HFC Refrigerant / R-134a
R-134a HFC Refrigerant / R-134a
AIRSERCO 4OZ LIQUID VAC
CALGON DEGREASING EF SOL
R-134a HFC Refrigerant / R-134a
AIRSERCO 4OZ LIQUID VAC
AB ACID BRUSH
A194 2 H 3/4-10
HCS 3/4-10 x 6 P8
Industrial Handheld Light,LED,Black
Standard Battery,9V,Alkaline,PK4
Disp Glvs,Nitrile,6 Mil,M,12 In,Blk,PK50

Refrigerant Tracking:									
Activity #	Action Taken	Type	Amount	Asset ID	Customer Tag	Serial Number	Model Number	Leak Location	Leak Rate
1- M7TEBBD	Add Refrigerant	NA	15		ABSORBER #1	GLCM157836	YPC ST 22G	NA	25
1- M7794GX	Add Refrigerant	NA	15		ABSORBER #2	GBDM248980	YPC ST 22G	NA	15
1- M4YFQYI	Add Refrigerant	NA	15		ABSORBER #3	GADM233620	YPC ST 22G	NA	24.89
1- M4Y9EAI	Add Refrigerant	NA	18		ABSORBER #4	GLNM230107	YPC ST 22G	NA	18

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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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