



Asset History Report

Date: 11/21/2017

Equipment: Chiller, Water Cooled, High Pressure Centrifugal, 1100-1499 Tons

Customer: DUPONT EXPERIMENTAL STATION

Site: DUPONT EXPERIMENTAL

Customer Tag: CHILLER #8

Asset Id: 1-FY0MJZY

Make: JCI_YORK

Model #: OTT4G2-ZBES

Serial Number: GACM117864

Installed:

Location: DUPONT EXPERIMENTAL

Area Served:

Size/Capacity: 1250 TONS



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Activity History						
Date	Activity #	Activity Status	Activity Type	Service Requested	Work Performed	By
02/16/2017	1-LMIW5PD	Completed	Field Repair	<p>CHILLER. #8 RELIEF TREE INSTALL</p> <p>Transfer Refrigerant to DuPonts Central Storage Tank according to EPA Specs. Record quantity recovered.</p> <p>Break Vacuum w/Nitrogen & Remove Current Relief Device.</p> <p>Install New 3-Way Valve, Relief Tree, and Relief Devices.</p> <p>Pressurize w/Nitrogen, Leak Test Entire Chiller.</p> <p>Evacuate Chiller & Perform Vacuum Hold Test.</p> <p>Recharge, Run, and Inspect Chiller Performance.</p> <p>***DuPont will be responsible for providing all material to be installed and for constructing a scaffold that will allow the work to be carried out safely***</p>	Completed Documentation for Job	Kevin Frazee
02/10/2017	1-LF7V8LT	Completed	Field Repair	<p>6501700761 Chiller #9 Annual Maintenance 2017</p> <p>Remove Refrigerant Sample for Chemical Analysis Refrigerant leak test chiller and document</p>	<p>CHILLER #9 ANNUAL MAINTENANCE: DuPont PO#: 6501700761</p> <p>RUN HOURS: 44,840 TOTAL STARTS: 1999</p>	Kevin Frazee



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				leaks found (repair minor leaks, if possible) Furnish and Change Compressor Oil Filter, and Oil Return Filter-Drier Furnish & Install Sight-Glass in Oil Return Line Change Compressor Oil w/ YORK J (Provided by DuPont) Disassemble Compressor Coupling and Check Cold Alignment Check Low-Speed Compressor Axial Thrust Reading Reassemble Coupling and Re-Check Compressor Coupling Cold Alignment Vacuum out Compressor Motor and Change Air Filters Change Oil in Compressor Motor Bearings (Provided by DuPont) Check all Chiller Controls, Safeties, and Low Voltage Electrical Connections Documents all tasks and Provide Comprehensive Report to DuPont	<ul style="list-style-type: none"> REMOVED REFRIGERANT SAMPLE FROM R-134A RECOVERED FROM CHILLER & SHIPPED TO LAB FOR ANALYSIS (will forward report to DuPont upon receipt) REMOVED OIL SAMPLE FROM COMPRESSOR SUMP & SHIPPED TO LAB FOR ANALYSIS (Expense covered under QUOTE# 1-JV664S7) REPLACED MAIN OIL FILTER REPLACED OIL RETURN FILTER-DRIER (C-413) CHECKED OIL HEATER OPERATION. INCREASED OFFLINE SUMP SETTING TO 135F 	
02/09/2017	1-LFBR9NG	Completed	Field Repair	(PO 6501697258) CHILLER #8 EVAPORATOR WATERBOX REPAIRS: CLEAN AND PREPARE TUBE SHEET FOR STEEL EPOXY COATING APPLY BELZONA 1121 "SUPER XL-METAL" (PURCHASED UNDER DUPONT PO#: 6501690015) TO FILL IN PITS AND GOUGING CLEAN UP AND ENSURE EPOXY INTEGRITY AFTER 24HR CURE TIME	<ul style="list-style-type: none"> ENSURED INTEGRITY OF BELLZONA EPOXY AFTER 24HR CURE TIME. CLEANED OFF EXCESS, SHAPED APPROPRIATE, AND PAINTED. REMOVED TEMPORARY RUBBER TUBE PLUGS. INSTALLED DIVISION PLATE (REPAIRED BY MDAVIS) WITH NEW GASKETING MATERIAL. 	Kevin Fraze
02/08/2017	1-LESDELS	Completed	Field Repair	CHILLER. #8 RELIEF TREE INSTALL	Transferred back the recovered R-134A charge (2,920lbs).	Kevin Fraze



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				Transfer Refrigerant to DuPonts Central Storage Tank according to EPA Specs. Record quantity recovered. Break Vacuum w/Nitrogen & Remove Current Relief Device. Install New 3-Way Valve, Relief Tree, and Relief Devices. Pressurize w/Nitrogen, Leak Test Entire Chiller. Evacuate Chiller & Perform Vacuum Hold Test. Recharge, Run, and Inspect Chiller Performance. ***DuPont will be responsible for providing all material to be installed and for constructing a scaffold that will allow the work to be carried out safely***	Added an Additional 150lbs from the YORK Central Recovery Tank. CURRENT TOTAL CHILLER CHARGE= 3,070lbs TOTAL DESIGN CHARGE= 3,250lbs CURRENT CHARGE DEFICIT= 180lbs	
02/07/2017	1-LEB1FO9	Completed	Field Repair	(PO 6501697258) CHILLER #8 EVAPORATOR WATERBOX REPAIRS: CLEAN AND PREPARE TUBE SHEET FOR STEEL EPOXY COATING APPLY BELZONA 1121 "SUPER XL-METAL" (PURCHASED UNDER DUPONT PO#: 6501690015) TO FILL IN PITS AND GOUGING CLEAN UP AND ENSURE EPOXY	<ul style="list-style-type: none"> • PREPPED AND APPLIED BELZONA 1121 "SUPER XL-METAL" (PURCHASED UNDER DUPONT PO# 6501690015) TO FILL IN 1/4" PIT AND ALL GOUGING ON STEEL CHANNELS IN WATERBOX. • ALLOWED 24HR CURE TIME. 	Kevin Fraze



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02/07/2017	1-LEAP0SA	Completed	Field Repair	<p>INTEGRITY AFTER 24HR CURE TIME</p> <p>CHILLER. #8 RELIEF TREE INSTALL</p> <p>Transfer Refrigerant to DuPonts Central Storage Tank according to EPA Specs. Record quantity recovered.</p> <p>Break Vacuum w/Nitrogen & Remove Current Relief Device.</p> <p>Install New 3-Way Valve, Relief Tree, and Relief Devices.</p> <p>Pressurize w/Nitrogen, Leak Test Entire Chiller.</p> <p>Evacuate Chiller & Perform Vacuum Hold Test.</p> <p>Recharge, Run, and Inspect Chiller Performance.</p> <p>***DuPont will be responsible for providing all material to be installed and for constructing a scaffold that will allow the work to be carried out safely***</p>	<p>Released Nitrogen Pressure.</p> <p>Evacuated Chiller down to 1000 microns.</p> <p>Performed Vacuum Hold Test.</p> <p>OBSERVED= 120u/hr Rise (Good)</p> <p>YORK MAX LIMIT= 650u/hr Rise</p>	Kevin Frazee
02/06/2017	1-LDPYGR2	Completed	Field Repair	<p>CHILLER. #8 RELIEF TREE INSTALL</p> <p>Transfer Refrigerant to DuPonts Central Storage Tank according to EPA Specs. Record quantity recovered.</p>	<p>Pressurized Chiller with Trace Gas and Nitrogen up to 120psig</p> <p>Verified that Newly Installed Relief Devices and Interconnecting Piping were Leak Free with Electronic Leak Detector and Soap Bubbles.</p>	Kevin Frazee



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				Break Vacuum w/Nitrogen & Remove Current Relief Device. Install New 3-Way Valve, Relief Tree, and Relief Devices. Pressurize w/Nitrogen, Leak Test Entire Chiller. Evacuate Chiller & Perform Vacuum Hold Test. Recharge, Run, and Inspect Chiller Performance. ***DuPont will be responsible for providing all material to be installed and for constructing a scaffold that will allow the work to be carried out safely***	Installed Relief Gauges & Copper Tubing from above each Rupture Disk to the common Release Pressure Switch. Verified Switch Closure at 50psig & Alarm Point activation on the Powerhouse Main Control System.	
02/06/2017	1-LDSKEYX	Completed	Field Repair	(PO 6501697258) CHILLER #8 EVAPORATOR WATERBOX REPAIRS: CLEAN AND PREPARE TUBE SHEET FOR STEEL EPOXY COATING APPLY BELZONA 1121 "SUPER XL-METAL" (PURCHASED UNDER DUPONT PO#: 6501690015) TO FILL IN PITS AND GOUGING CLEAN UP AND ENSURE EPOXY INTEGRITY AFTER 24HR CURE TIME	<ul style="list-style-type: none"> • REMOVED ALL RUST AND CORROSION FROM WATERBOX TUBE SHEET AROUND 1/4" PIT AND DIVISION PLATE CHANNELS WITH WIREWHEEL. • THOROUGHLY CLEANED STEEL SURFACES WITH DENATURED ALCOHOL AND ALLOWED TO DRY. 	Kevin Frazee
02/06/2017	1-LDSKEXM	Completed	Field Repair	Chiller #8 Annual Maintenance 2017 Remove Refrigerant Sample for Chemical	<ul style="list-style-type: none"> • DRAINED OLD OIL CHARGE & INSTALLED 15 GALLONS OF NEW YORK "J" OIL. • DOCUMENTED ALL ANNUAL MAINTENANCE TASKS 	Kevin Frazee



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				Analysis Refrigerant leak test chiller and document leaks found (repair minor leaks, if possible) Furnish and Change Compressor Oil Filter, and Oil Return Filter-Drier Change Compressor Oil w/ YORK J (Provided by DuPont) Disassemble Compressor Coupling and Check Cold Alignment Check Low-Speed Compressor Axial Thrust Reading Reassemble Coupling and Re-Check Compressor Coupling Cold Alignment Vacuum out Compressor Motor and Change Air Filters Change Oil in Compressor Motor Bearings (Provided by DuPont) Check all Chiller Controls, Safeties, and Low Voltage Electrical Connections Documents all tasks and Provide Comprehensive Report to DuPont *All other task, such as Recovery, Evacuation, Oil Sample, and Re-Charge are being performed under other Quotes*	PERFORMED AND PROVIDED DUPONT WITH COMPREHENSIVE REPORT (INCLUDING OIL AND REFRIGERANT ANALYSIS REPORTS)	
02/03/2017	1-LCVM5ZZ	Completed	Field Repair	Chiller #8 Annual Maintenance 2017 Remove Refrigerant Sample for Chemical Analysis Refrigerant leak test chiller and document leaks found (repair minor leaks, if possible)	<ul style="list-style-type: none"> CHECKED ALL CHILLER CONTROLS, SAFETIES, & LOW VOLTAGE ELECTRICAL CONNECTIONS VERIFIED BOTH HIGH PRESSURE SWITCH CUTOFF PRESSURES OF 180PSIG & ALARM POINT ACTIVATION ON THE POWERHOUSE MAIN CONTROL SYSTEM 	Kevin Fraze



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				Furnish and Change Compressor Oil Filter, and Oil Return Filter-Drier Change Compressor Oil w/ YORK J (Provided by DuPont) Disassemble Compressor Coupling and Check Cold Alignment Check Low-Speed Compressor Axial Thrust Reading Reassemble Coupling and Re-Check Compressor Coupling Cold Alignment Vacuum out Compressor Motor and Change Air Filters Change Oil in Compressor Motor Bearings (Provided by DuPont) Check all Chiller Controls, Safeties, and Low Voltage Electrical Connections Documents all tasks and Provide Comprehensive Report to DuPont *All other task, such as Recovery, Evacuation, Oil Sample, and Re-Charge are being performed under other Quotes*		
02/03/2017	1-LCXHVOM	Completed	Field Repair	(PO 6501697258) CHILLER #8 EVAPORATOR WATERBOX REPAIRS: CLEAN AND PREPARE TUBE SHEET FOR STEEL EPOXY COATING APPLY BELZONA 1121 "SUPER XL-METAL" (PURCHASED UNDER DUPONT PO#: 6501690015) TO FILL IN PITS AND GOUGING CLEAN UP AND ENSURE EPOXY	CHILLER #8 EVAPORATOR WATERBOX REPAIR JOB: DUPONT PO#: 6501697258 JCI QUOTE#: 1-LCBP20N • TEMPORARILY PLUGGED ALL EVAPORATOR TUBES WITH RUBBER CORKS TO PREVENT INGRESS OF DEBRIS.	Kevin Fraze



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Date	Activity #	Activity Status	Activity Type	Service Requested	Work Performed	By
02/03/2017	1-LAW98P1	Completed	Field Repair	<p>INTEGRITY AFTER 24HR CURE TIME</p> <p>CHILLER. #8 RELIEF TREE INSTALL</p> <p>Transfer Refrigerant to DuPonts Central Storage Tank according to EPA Specs. Record quantity recovered.</p> <p>Break Vacuum w/Nitrogen & Remove Current Relief Device.</p> <p>Install New 3-Way Valve, Relief Tree, and Relief Devices.</p> <p>Pressurize w/Nitrogen, Leak Test Entire Chiller.</p> <p>Evacuate Chiller & Perform Vacuum Hold Test.</p> <p>Recharge, Run, and Inspect Chiller Performance.</p> <p>***DuPont will be responsible for providing all material to be installed and for constructing a scaffold that will allow the work to be carried out safely***</p>	<p>Installed 3-Way Valve, 2 Rupture Disks, Interconnecting Piping, & 2 Relief Valves (Provided and Tagged by DuPont's Pressure Vessel Group).</p> <p>Torqued all Flanges to Specs and Connected Relief Valve "A" to Exhaust Pipe.</p> <p>Relief Valve "B" Outlet was Plugged.</p>	Kevin Frazee
02/02/2017	1-LC1C31C	Completed	Field Repair	<p>Chiller #8 Annual Maintenance 2017</p> <p>Remove Refrigerant Sample for Chemical Analysis</p> <p>Refrigerant leak test chiller and document leaks found (repair minor leaks, if possible)</p>	<p>• REPLACED ALL ORIGINAL PRESSURE TRANSDUCERS AND COMPRESSOR DISCHARGE THERMISTOR PROACTIVELY(PROVIDED BY DUPONT)</p>	Kevin Frazee



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				Furnish and Change Compressor Oil Filter, and Oil Return Filter-Drier Change Compressor Oil w/ YORK J (Provided by DuPont) Disassemble Compressor Coupling and Check Cold Alignment Check Low-Speed Compressor Axial Thrust Reading Reassemble Coupling and Re-Check Compressor Coupling Cold Alignment Vacuum out Compressor Motor and Change Air Filters Change Oil in Compressor Motor Bearings (Provided by DuPont) Check all Chiller Controls, Safeties, and Low Voltage Electrical Connections Documents all tasks and Provide Comprehensive Report to DuPont *All other task, such as Recovery, Evacuation, Oil Sample, and Re-Charge are being performed under other Quotes*		
02/02/2017	1-L4S9CHR	Completed	Field Repair	CHILLER. #8 RELIEF TREE INSTALL Transfer Refrigerant to DuPonts Central Storage Tank according to EPA Specs. Record quantity recovered. Break Vacuum w/Nitrogen & Remove Current Relief Device.	Prepped for installation work. Organized materials provided by DuPont, including Garlock 3300 Gaskets.	Kevin Frazee



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				Install New 3-Way Valve, Relief Tree, and Relief Devices. Pressurize w/Nitrogen, Leak Test Entire Chiller. Evacuate Chiller & Perform Vacuum Hold Test. Recharge, Run, and Inspect Chiller Performance. ***DuPont will be responsible for providing all material to be installed and for constructing a scaffold that will allow the work to be carried out safely***		
02/02/2017	1-LCE0W50	Completed	Field Repair	CHILLER #8 SHAFT SEAL REPLACEMENT: Based on measurements take over the past 2 months CHILLER#8 seal oil leak has been calculated at 4.92ml/hr. This is double the factory recommended max leak rate of 2.23ml/hr (signal point for replacement). SCOPE: REMOVE COMPRESSOR COUPLING HUB REMOVE OLD SHAFT SEAL CLEAN & INSPECT INTERNAL COMPRESSOR SHAFT SURFACES CLEAN & RESUSE SHAFT SEAL COVER	<ul style="list-style-type: none"> • Pressurized Chiller with Nitrogen and leak tested newly installed shaft seal. • No leaks detected • Reassembled coupling and cleaned up job. 	Kevin Frazee



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				PLATE (if not damaged) INSTALL NEW SHAFT SEAL COMPONENTS (COLLAR, SEAL, SPRINGS, O-RINGS) CHECK FOR LEAKS & REASSEMBLE COUPLING **REFRIGERANT RECOVERY, EVACUATION, & RE-CHARGE IS COVERED UNDER OTHER QUOTES**		
02/01/2017	1-LC1C2ZF	Completed	Field Repair	CHILLER #8 SHAFT SEAL REPLACEMENT: Based on measurements take over the past 2 months CHILLER#8 seal oil leak has been calculated at 4.92ml/hr. This is double the factory recommended max leak rate of 2.23ml/hr (signal point for replacement). SCOPE: REMOVE COMPRESSOR COUPLING HUB REMOVE OLD SHAFT SEAL CLEAN & INSPECT INTERNAL COMPRESSOR SHAFT SURFACES CLEAN & RESUSE SHAFT SEAL COVER PLATE (if not damaged) INSTALL NEW SHAFT SEAL COMPONENTS (COLLAR, SEAL, SPRINGS, O-RINGS) CHECK FOR LEAKS & REASSEMBLE COUPLING	CHILLER #8 SHAFT SEAL REPLACEMENT JOB DuPont PO#: 6501694234 Based on measurements take over the past 2 months CHILLER #8 seal oil leak has been calculated at 4.92ml/hr. This is double the factory recommended max leak rate of 2.23ml/hr (signal point for replacement). <ul style="list-style-type: none"> • Ordered Necessary Parts • Removed Compressor Coupling Hub • Removed Old Shaft Seal • Clean & Inspect Internal Compressor Shaft Surfaces • Cleaned & Resused Shaft Seal Cover Plate (No Damaged Detected) • Installed New Shaft Seal Components (Collar, Seal, Springs, O-Rings) 	Kevin Fraise



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01/31/2017	1-LAW98QI	Completed	Field Repair	<p>Chiller #8 Annual Maintenance 2017</p> <p>Remove Refrigerant Sample for Chemical Analysis Refrigerant leak test chiller and document leaks found (repair minor leaks, if possible) Furnish and Change Compressor Oil Filter, and Oil Return Filter-Drier Change Compressor Oil w/ YORK J (Provided by DuPont) Disassemble Compressor Coupling and Check Cold Alignment Check Low-Speed Compressor Axial Thrust Reading Reassemble Coupling and Re-Check Compressor Coupling Cold Alignment Vacuum out Compressor Motor and Change Air Filters Change Oil in Compressor Motor Bearings (Provided by DuPont) Check all Chiller Controls, Safeties, and Low Voltage Electrical Connections Documents all tasks and Provide Comprehensive Report to DuPont</p> <p>*All other task, such as Recovery, Evacuation, Oil Sample, and Re-Charge are being performed under other Quotes*</p>	<p>**REFRIGERANT RECOVERY, EVACUATION, & RE-CHARGE IS COVERED UNDER OTHER QUOTES**</p> <ul style="list-style-type: none"> • CLEANED MOTOR. VACUUMED OUT INTERNALS. CHANGED BEARING OIL & AIR FILTERS (16x25x2 QTY-4) • TIGHTENED MOTOR FEET BOLTS • RECORDED ALIGNMENT w/LASER BEFORE DRIVE COUPLING DISASSEMBLY • DISASSEMBLED 1-7/8" YORK-FLEX COUPLING • AXIAL SHIMS= 0.225" • MEASURED MOTOR SHAFT FLOAT= 0.522" (ACCEPTABLE) <p>MOTOR TO COMP SHAFT CLEARANCE: Motor Full Forward= 3.368" Motor Full Back= 3.890" Float Total= 0.522" (0.500-.565) Min-Max)</p> <p>MEASURED MOTOR COUPLING RIM RUNOUT= 0.003" MEASURED COMP SHAFT RADIAL RUNOUT: 0.001" MEASURED COMP AXIAL THRUST= 0.0165"</p> <ul style="list-style-type: none"> • REASSEMBLED COUPLING & RECHECKED/RECORDED COLD ALIGNMENT 	Kevin Fraze



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01/31/2017	1-L51ULGQ	Completed	Field Repair	(Emergency PO) Chiller #8, erosion repair (pitting) to tube sheet in evaporator.	<p>CHILLER #8 EVAP WATERBOX EROSION:</p> <p>DuPont PO#: 6501690015</p> <p>01/30/2016:</p> <ul style="list-style-type: none"> Discovered erosion of EVAP Division Plate and Tube Sheet Gasket between Plate and Tube Sheet appears to have blown out towards the top, allowing high velocity bypass & subsequent gouging and erosion of steel Measured depth of gouging in tube sheet to be approximately 1/4" Placed an order for BELZONA 1121 (Steel Repair Compound) 3KG Kit <p>01/31/2016:</p> <ul style="list-style-type: none"> Coordinated and Discussed Division Plate Welding Repairs w/ MDAVIS & KBR 	Kevin Fraze
01/30/2017	1-L4SFZ67	Completed	Field Repair	<p>Chiller #8 Annual Maintenance 2017</p> <p>Remove Refrigerant Sample for Chemical Analysis</p> <p>Refrigerant leak test chiller and document leaks found (repair minor leaks, if possible)</p> <p>Furnish and Change Compressor Oil Filter, and Oil Return Filter-Drier</p> <p>Change Compressor Oil w/ YORK J (Provided by DuPont)</p> <p>Disassemble Compressor Coupling and Check Cold Alignment</p>	<ul style="list-style-type: none"> REFRIGERANT LEAK TESTED ENTIRE CHILLER NEW LEAKS DISCOVERED & FIXED: <ol style="list-style-type: none"> COMPRESSOR DISCHARGE FLANGE (SMALL) OLD LEAKS FIXED: <ol style="list-style-type: none"> REMOVED & REPLACED LEAKING REFRIGERANT ANGLE VALVE & 3/8" THREADED PIPING ON TOP OF CONDENSER (Leak was discovered 06/23/2016 & noted) REPLACED LEAKING SHAFT SEAL (UNDER QUOTE#: 1-L390LXB) REMOVED & REPLACED LEAKING RUPTURE DISK (UNDER QUOTE#: 1-FRO6QSB) DISCOVERED OIL RETURN SOLENOID VALVE 	Kevin Fraze



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				Check Low-Speed Compressor Axial Thrust Reading Reassemble Coupling and Re-Check Compressor Coupling Cold Alignment Vacuum out Compressor Motor and Change Air Filters Change Oil in Compressor Motor Bearings (Provided by DuPont) Check all Chiller Controls, Safeties, and Low Voltage Electrical Connections Documents all tasks and Provide Comprehensive Report to DuPont *All other task, such as Recovery, Evacuation, Oil Sample, and Re-Charge are being performed under other Quotes*	SEVERELY CORRODED. REPLACED VALVE & INSTALLED INLINE SIGHT GLASS.	
01/27/2017	1-L3J429F	Completed	Field Repair	Chiller #8 Annual Maintenance 2017 Remove Refrigerant Sample for Chemical Analysis Refrigerant leak test chiller and document leaks found (repair minor leaks, if possible) Furnish and Change Compressor Oil Filter, and Oil Return Filter-Drier Change Compressor Oil w/ YORK J (Provided by DuPont) Disassemble Compressor Coupling and Check Cold Alignment Check Low-Speed Compressor Axial Thrust Reading Reassemble Coupling and Re-Check	CHILLER #8 ANNUAL MAINTENANCE: DuPont PO#: 6501692933 RUN HOURS: 47,714 TOTAL STARTS: 2088 <ul style="list-style-type: none"> • REMOVED REFRIGERANT SAMPLE FROM R-134A RECOVERED FROM CHILLER & SHIPPED TO LAB FOR ANALYSIS (will forward report to DuPont upon receipt) • REMOVED OIL SAMPLE FROM COMPRESSOR SUMP & SHIPPED TO LAB FOR ANALYSIS (Expense covered under QUOTE# 1-JV664S7) • REPLACED MAIN OIL FILTER 	Kevin Fraze



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				Compressor Coupling Cold Alignment Vacuum out Compressor Motor and Change Air Filters Change Oil in Compressor Motor Bearings (Provided by DuPont) Check all Chiller Controls, Safeties, and Low Voltage Electrical Connections Documents all tasks and Provide Comprehensive Report to DuPont *All other task, such as Recovery, Evacuation, Oil Sample, and Re-Charge are being performed under other Quotes*	<ul style="list-style-type: none"> REPLACED OIL RETURN FILTER-DRIER (C-413) CHECKED OIL HEATER OPERATION. INCREASED OFFLINE SUMP SETTING TO 135F 	
01/27/2017	1-L383U4T	Completed	Field Repair	CHILLER #8 EDDY-CURRENT EDDY-CURRENT TESTING & ANALYSIS OF ALL EVAPORATOR & CONDENSER TUBES (1,582 TOTAL). FINAL REPORT OF TUBE CONDITION WILL BE PROVIDED UPON COMPLETION. *NOTE: HEADS MUST BE DOWN AND TUBES CLEANED AND BRUSHED BEFORE TECHNICIAN ARRIVES. UNIT MUST BE READY FOR TESTING WITH NO WAITING TIME.* **THIS WORK IS CURRENTLY SCHEDULED FOR JAN. 27TH & 28TH. ACCESS TO SITE AND POWERHOUSE WILL NEED TO BE	CHILLER #8 EDDY-CURRENT DUPONT PO#: 6501681197 EDDY-CURRENT TESTING was Completed on CHILLER #8s EVAP & COND tubes. Provided DuPont with ANALYSIS REPORT. NO TUBES have been recommended to be Plugged or Pulled at this Time. NEXT TEST RECOMMENDED: JANUARY 26th, 2020	Kevin Frazee



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				ARRANGED & PROVIDED FOR THE TECHNICIAN BY DUPONT ON SATURDAY THE 28TH.**		
01/26/2017	1-L383U3N	Completed	Field Repair	<p>CHILLER #8 EDDY-CURRENT</p> <p>EDDY-CURRENT TESTING & ANALYSIS OF ALL EVAPORATOR & CONDENSER TUBES (1,582 TOTAL).</p> <p>FINAL REPORT OF TUBE CONDITION WILL BE PROVIDED UPON COMPLETION.</p> <p>*NOTE: HEADS MUST BE DOWN AND TUBES CLEANED AND BRUSHED BEFORE TECHNICIAN ARRIVES. UNIT MUST BE READY FOR TESTING WITH NO WAITING TIME.*</p> <p>**THIS WORK IS CURRENTLY SCHEDULED FOR JAN. 27TH & 28TH. ACCESS TO SITE AND POWERHOUSE WILL NEED TO BE ARRANGED & PROVIDED FOR THE TECHNICIAN BY DUPONT ON SATURDAY THE 28TH.**</p>	<p>CHILLER #8 EDDY-CURRENT DUPONT PO#: 6501681197</p> <p>EDDY-CURRENT TESTING was performed on ALL CHILLER #8s EVAP & COND tubes.</p>	Kevin Fraze
01/25/2017	1-L2NPFDP	Completed	Field Repair	<p>CHILLER. #8 RELIEF TREE INSTALL</p> <p>Transfer Refrigerant to DuPonts Central</p>	Dismantled and Removed Old Rupture Disk / Relief Valve Assembly from the Chiller, and Capped flange with pressure gauge.	Kevin Fraze



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				<p>Storage Tank according to EPA Specs. Record quantity recovered.</p> <p>Break Vacuum w/Nitrogen & Remove Current Relief Device.</p> <p>Install New 3-Way Valve, Relief Tree, and Relief Devices.</p> <p>Pressurize w/Nitrogen, Leak Test Entire Chiller.</p> <p>Evacuate Chiller & Perform Vacuum Hold Test.</p> <p>Recharge, Run, and Inspect Chiller Performance.</p> <p>***DuPont will be responsible for providing all material to be installed and for constructing a scaffold that will allow the work to be carried out safely***</p>	<p>Chiller shell will remain capped, isolated, and at atmospheric pressure until DuPont approves use of GARLOCK 3300 Gaskets on new Rupture Disks, 3-Way Valve, and interconnecting 300# 2" Flanges.</p>	
01/24/2017	1-L250YRA	Completed	Field Repair	<p>CHILLER. #8 RELIEF TREE INSTALL</p> <p>Transfer Refrigerant to DuPonts Central Storage Tank according to EPA Specs. Record quantity recovered.</p> <p>Break Vacuum w/Nitrogen & Remove Current Relief Device.</p> <p>Install New 3-Way Valve, Relief Tree, and</p>	<p>Completed Recovery down to EPA Required Spec of 15"hg Vacuum. Refrigerant is being stored in the YORK Central Recovery Tank.</p> <p>TOTAL R-134A Recovered= 2,920lbs DESIGN CHARGE= 3,300lbs SHORT: 380lbs</p> <p>Brought Chiller up to Atmospheric Pressure with Powerhouse Nitrogen and safed off.</p>	Kevin Fraze



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Date	Activity #	Activity Status	Activity Type	Service Requested	Work Performed	By
				Relief Devices. Pressurize w/Nitrogen, Leak Test Entire Chiller. Evacuate Chiller & Perform Vacuum Hold Test. Recharge, Run, and Inspect Chiller Performance. ***DuPont will be responsible for providing all material to be installed and for constructing a scaffold that will allow the work to be carried out safely***		
01/23/2017	1-L1R58K6	Completed	Field Repair	CHILLER. #8 RELIEF TREE INSTALL Transfer Refrigerant to DuPonts Central Storage Tank according to EPA Specs. Record quantity recovered. Break Vacuum w/Nitrogen & Remove Current Relief Device. Install New 3-Way Valve, Relief Tree, and Relief Devices. Pressurize w/Nitrogen, Leak Test Entire Chiller. Evacuate Chiller & Perform Vacuum Hold Test.	CHILLER #8 RELIEF TREE JOB DuPont PO#: 6501691743 JCI QUOTE#: 1-FRO6QSB Coordinated with DuPont Personnel for Shutdown and Lockout of CHILLER #8. Verified Operation of Central Recovery Pump Out Unit and began Transferring CHILLER #8's R-134A charge into the Central Recovery Tank. Began organizing material for Installation of new Relief Devices. Stopped Recovery and Isolated. Will finished Vapor Recovery tomorrow.	Kevin Frazee



Asset History Report

Date: 11/21/2017

Activity History						
Date	Activity #	Activity Status	Activity Type	Service Requested	Work Performed	By
				Recharge, Run, and Inspect Chiller Performance. ***DuPont will be responsible for providing all material to be installed and for constructing a scaffold that will allow the work to be carried out safely***		
01/20/2017	1-L0VSZJ4	Completed	Field Repair	CHILLER. #8 RELIEF TREE INSTALL Transfer Refrigerant to DuPonts Central Storage Tank according to EPA Specs. Record quantity recovered. Break Vacuum w/Nitrogen & Remove Current Relief Device. Install New 3-Way Valve, Relief Tree, and Relief Devices. Pressurize w/Nitrogen, Leak Test Entire Chiller. Evacuate Chiller & Perform Vacuum Hold Test. Recharge, Run, and Inspect Chiller Performance. ***DuPont will be responsible for providing all material to be installed and for constructing a scaffold that will allow the work to be carried out safely***		Kevin Frazee



Asset History Report

Date: 11/21/2017

Activity History						
Date	Activity #	Activity Status	Activity Type	Service Requested	Work Performed	By
01/19/2017	1-L0E6R52	Completed	Field Repair	Consultive service of 1/18. Emergency work of 1/19.	CHILLER #9 RUPTURE DISK INSPECTION. Assisted DuPont with the pulling, inspecting, and re-installation of both Rupture Disks on Chiller #9, as per Chris Cooper's instructions.	Kevin Fraze
12/28/2016	1-K2Y3NEJ	Completed	Field Repair	CHILLER #8 LOW OIL LEVEL Add appropriate amount of YORK "J" Oil (Customer Supplied) to Chiller #8 to bring back to Normal Operating Level. Measure Seal Oil Leakage and Calculate Leak rates on #8,9,&10 to determine Condition of Shaft Seals. Make necessary Adjustments on Chiller #8's Vane Arm Assembly. Change and Tighten Fasteners. Apply Sealant to Actuator Motor Shaft.	CHILLER #8 LOW OIL LEVEL <ul style="list-style-type: none"> • Added approximately 3 Gallons of YORK "J" Oil (Customer Supplied) to Chiller #8 to bring Oil Sump Level up to 1/2 T.S.G. • Measured Seal Oil Leakage and Calculated Leak rates on #8,9,&10 to determine Condition of Shaft Seals. • Emptied #8 & #9's Seal Oil Jars & Disposed of Oil. • Made necessary Adjustments to Chiller #8's Vane Arm Assembly. Changed and Tightened Fasteners. Applied Sealant to Actuator Motor Shaft. 	Kevin Fraze
06/23/2016	1-G8WWXZR	Completed	Field Repair	Inspect and Repair Chiller #8 Evaporator issues, ESL Powerhouse (E315)	Refrigerant Leak Tested Chiller #8. Discovered leaks on 1/2" Access Valve threads on top of Evaporator and Rupture Disk. Recommend Shutdown of Chiller and Repair of Leaks.	Kevin Fraze
06/06/2016	1-FXQPPJW	Completed	Field Repair	Inspect and Repair Chiller #8 Evaporator issues, ESL Powerhouse (E315)	CHILLER #8 Mod: OTT4G2-ZBES Ser: GACM117864 DuPont Operators explained that the chiller has been limiting itself on a Low Pressure Override for the past year. Refrigerant level in Sight Glass has appeared low. Transferred Liquid Charge over to Central Storage Tank and weighed.	Kevin Fraze



Asset History Report

Date: 11/21/2017

Activity History						
Date	Activity #	Activity Status	Activity Type	Service Requested	Work Performed	By
					<p>Recovered: 1490lbs Design Charge: 3250lbs Transferred Back: 3120lbs</p> <p>Started Chiller and verified operation to be Normal at this time.</p> <p>CHILLER #8 will be down for removal and replacement of the relief device in the next few weeks. A thorough leak test will be performed at that time.</p> <p>***Central Storage Tank by Chiller #7 is almost empty. Recommend adding a few thousand pounds for future use.***</p>	