

MALFUNCTION ABATEMENT PLAN

Cadillac Casting Inc.
Cadillac, MI

Original Plan: December 2001

Revision: March 2019



TRC Environmental Corporation | Cadillac Casting Inc.

Final

\\BROOKFIELD-FP1\PROJECTS\CADILLAC CASTING\313096 - ROP RENEWAL 2018\0000\PLANS\MAP PARTS\UPDATED MAP 3-26-19.DOC

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Section 1

Introduction

1.1 Background

Cadillac Casting Inc. (CCI), casts automotive parts at their foundry located in Cadillac, Michigan at 1500 Fourth Avenue.

1.2 Purpose

TRC Environmental Corporation (TRC), was retained by CCI to prepare the Malfunction Abatement Plan (MAP) for the following devices: The afterburner and venturi scrubber for the metal melting process. The baghouses on the metal melting process, sand preparation, breaking and sorting line, A-Line sand handling operations, and metal finishing operations. The Amine Catalyst scrubber for the core and mold making operations. The impingement wet scrubber for sand preparation and shakeout operations. The thermal regenerative oxidizer for the iron pouring and cooling line. The parts washer for the part washing line. This plan is required for the emission control equipment covered under Renewable Operating (RO) Permit No. MI-ROP-B2178-2008a.

1.3 Scope

The scope of work includes preparation of a MAP for the foundry in accordance with the requirements of RO Permit No. MI-ROP-B2178-2014a and Rule 912 in the Michigan Administrative Code (MAC). The equipment covered under this plan includes the following:

EQUIPMENT	STACK NUMBER	PROCESS DESCRIPTION
Afterburner	SV011	Metal Melting
Venturi Scrubber	SV011	Metal Melting
Baghouse	SV003	Sand Preparation
	SV002	Sand Preparation
	SV007	Breaking and Sorting Line
	SV008	Breaking and Sorting Line
	-	A-Line sand handling operations
	-	A-Line sand handling operations
	SV001	Metal Finishing
	SV004	Metal Finishing
	SV013	Metal Finishing
Amine Catalyst Scrubber	SV018	Catalyzed Core and Mold Making
	SV019	A-Line Core and Mold Making
	SV020	A-Line Core and Mold Making
Impingement Wet Scrubber	SV002	Sand Preparation
	SV010	Shakeout and Molding System and Spomatic Mold Line
Thermal Regenerative Oxidizer	SV014	Iron Pouring and Cooling Line
Parts Washer	-	Clean Metal Parts

Section 2

Functional Organization of Plan

The intent of the organizational structure of this MAP is twofold:

1. It is organized to function as a dynamic document that effectively allows for the incorporation of additional control-device specific plans, as necessary.
2. To facilitate the distribution of control-device specific plans while maintaining a centrally located Master MAP which includes all available MAPs for the facility.

To these ends, this document serves as the aforementioned Master MAP, which should be located in the office of the Environmental Manager. This document includes the following:

- General regulatory information relative to RO Permit No. 199700043
- Control Device-Specific MAPs, including:
 - Appendix A: Metal Melting Process - Afterburner (SV011)
 - Appendix B: Metal Melting Process - Venturi Scrubber (SV011)
 - Appendix C: Carter Day Baghouse (SV002)
 - SPO Line Break and Sort - 80,000 CFM Baghouse #1 (SV007)
 - SPO Line Break and Sort - 80,000 CFM Baghouse #2 (SV008)
 - A-Line Sand Handling - Automatic Shaker Baghouse (NA)
 - A-Line Sand Handling - Sand Tank Vent Filter (NA)
 - Metal Finishing - 40,000 cfm Pulse Jet Baghouse (SV001)
 - Metal Finishing - 12,000 cfm Automatic Shaker Baghouse (SV004)
 - Metal Finishing - Automatic Shaker Baghouse (SV013)
 - Appendix D: Packed Tower Sulfuric Acid Amine Catalyst Scrubber (SV018)
 - Two Sulfuric Acid Amine Catalyst Scrubbers (SV019/SV020)
 - Appendix E: Sand Preparation - Impingement Wet Scrubber (SV010)
 - Shakeout Operations - Impingement Wet Scrubber (SV003)
 - Appendix F: Iron Pouring and Cooling - Thermal Regenerative Oxidizer (SV014)
 - Appendix G: Cold Cleaners and Degreasers

2.1 Updates and Revisions

A new appendix should be assigned to each control device-specific MAP developed for inclusion in this plan. Furthermore, any updates or revisions to existing MAPs should be incorporated into this document as well as those distributed throughout the facility. A shaded box is provided on the last page of each MAP to date and initial any revisions or updates to effectively track the most current version of distributed copies.

2.2 Distribution

Copies of each control device-specific appendix should be distributed such that a copy is maintained in close proximity to each corresponding control device.

2.3 Maintenance Records

Copies of maintenance records relative to control devices and their associated monitoring devices should be returned to the Environmental Manager upon completion. These records can in turn be placed at the end of each respective appendix of this document to verify and document performance of scheduled maintenance detailed in this plan.

Section 3

General Agency Notification Procedures

When a malfunction or failure is observed for any of the reasons described in each control device-specific MAP, the actions outlined below will be taken to correct the malfunction and when necessary alert the agency to a malfunction that results in excess emissions as required under R336.1912 MAC. A copy of this procedure is included with each control-device specific plan, with exceptions noted on a control device specific basis.

1. Verification of the Value of the Operating Parameter: If a monitored parameter is determined to be outside the appropriate operating ranges, the Operator should take a new reading to ensure the validity of the reading.
2. Initial Correction Attempt: After verifying that the monitored parameter is outside the normal operating range, the Operator should contact the Maintenance Manager and make process adjustment(s), as determined by the maintenance manager to return the parameter to within the required operating range.
3. Response to Unsuccessful Correction Attempts: If the Maintenance Manager determines that the operating parameter cannot be returned to the stated range, then he/she should make a complete assessment of the situation and notify the Environmental Manager.
4. Secondary Correction Attempt: The Environmental Manager should take the following actions.
 - Assist in determining the cause of the malfunction.
 - Solicit the resources necessary to verify that the readings are valid and not attributable to instrument error.
 - Assist in making the necessary process adjustments.
 - Solicit the resources necessary to make the required repairs.
 - If the above efforts are unsuccessful at returning the operating parameter to the acceptable operating range, solicit resources that are determined to be necessary to solve the problem.
5. Repair and Inspection: The Maintenance Manager will direct repairs and inspection of the malfunctioning unit to determine the extent of the problem and estimate the amount of time required to repair the unit.
6. Estimate Time for Safe Process Shutdown: The Maintenance Manager will determine the amount of time to reasonably and safely shut down the affected plant operations if the emissions are in exceedance of their respective limitations.
7. Report Malfunction to Environmental Control Manager: The Maintenance Manager will report the malfunction to the Environmental Manager. Information to report includes the

cause of the malfunction and the duration of the exceedance, along with the time the malfunction started and when repairs are expected to be completed.

8. Report Malfunction to MDEQ: The Environmental Manager will call the Michigan Department of Environmental Quality (MDEQ) Air Quality Division contact by the next business day if there is a malfunction that results in excess emissions per R336.1912 MAC and inform them that:
 - A malfunction has occurred;
 - Which unit is malfunctioning;
 - The cause of the malfunction and duration of the exceedance;
 - What time the malfunction started or was discovered; and
 - When repairs are expected to be completed and the measures that will be taken to minimize emissions during that period.
9. Corrective Action: The Maintenance Manager will proceed with the required corrective actions as directed by the Environmental Manager.
10. Formal MDEQ Contact: The Environmental Manager shall document the malfunction resulting in excess emissions per R336.1912 MAC and notify the appropriate MDEQ personnel in writing within 10 days after the malfunction per the same rule.

Section 4

General Provisions

According to RO Permit No. MI-ROP-B2178-2008a, the Cadillac Casting Inc. foundry facility will operate and maintain the control equipment covered in this Malfunction Abatement Plan in accordance with good engineering practices, to minimize the possibility for exceedance of applicable emission limitations. A copy of this Malfunction Abatement Plan will be maintained on-site in the office of the Environmental Manager. Foundry personnel listed herein will be familiar with this document, its purpose, and its contents. Copies of each control device specific appendix will be maintained in close proximity to each corresponding control device. This plan will be reviewed at least every 5 years and updated, if necessary, by the Cadillac Casting Inc. foundry.

Appendix A

Afterburner (SV011)

**Cadillac Casting Inc., Cadillac, MI
Malfunction Abatement Plan**

Air Pollution Control Equipment:
Process Equipment:
Associated Stack/Vent ID No.'s:

Afterburner
EUMELTING
SV011

I. Inspection & Routine Maintenance - Air Pollution Control Equipment

Description: The afterburner is used to control carbon monoxide and volatile organic compounds (VOC).

	<u>Process Description</u>	<u>Control Device Description/Mfg.</u>	<u>Stack/Vent ID</u>
EUMELTING	Metal Melting	Afterburner	SV011

Inspection, maintenance, and repair of the afterburner is conducted by or under the direction of the Maintenance Superintendent.

Items & Conditions To Check: The following items and operating conditions will be checked during each inspection at or before the specified maximum maintenance interval.

Daily

Check the general cleanliness and operation of the afterburner

Weekly

Check the condition of the fan (e.g., build-up of foreign matter on rotor, cracks and excessive wear of rotor, etc.)
Check belts (e.g., loose or worn, proper tension, etc.), and repair or replace as necessary
Check the structural integrity of the afterburner

Quarterly

Check condition of bearings for high operating temperatures or vibration
Lubricate parts (e.g., fans, bearings, motors, etc.), as necessary

Annual

Check fans and motors for vibration and noise
Check shaft and sheave alignment, and repair as necessary

Recordkeeping: A summary of the maintenance activities performed will be prepared every 6 months and maintained in the master MAP which is maintained in the office of the Environmental Manager.

Spare Parts Inventory: The following spare parts are maintained in inventory for preventative maintenance purposes:

1. Spare belts
2. Spare motors
3. Spare bearings

Regulatory Applicability: The following regulations are applicable to processes controlled by this control device category. It is important to note that the following is not intended to be a complete listing of all limitations that apply to the emission source controlled by the equipment covered under this Malfunction Abatement Plan.

Material	Unit/Group ID	Underlying Code	Limitation/Requirement
Metal, Non specific	EUMELTING	40 CFR 52.21(c) & (d)	not charge cupola with more than 16,667 tons of metal per month based on a 12-month rolling time period
Metal, Non specific	EUMELTING	40 CFR 52.21(c) & (d)	not charge cupola with more than 200,000 tons of metal per year

**Cadillac Casting Inc., Cadillac, MI
Malfunction Abatement Plan**

Air Pollution Control Equipment:
Process Equipment:
Associated Stack/Vent ID No.'s:

Afterburner
EUMELTING
SV011

Pollutant	Unit/Group ID	Underlying Code	Limitation/Requirement
Carbon Monoxide	EUMELTING	40 CFR 52.21(c) & (d)	not exceed 375 lbs/hr, 8.0 lbs/ton of metal charged, 66.7 TPM, or 800 TPY
Volatile Organic Compounds (VOC)	EUMELTING	40 CFR 52.21(c) & (d)	not exceed 3.6 lbs/hr, 0.12 lbs/ton of metal charged, 0.65 TPM, or 7.74 TPY

Compliance: Compliance with the regulation cited above is documented via the following operating parameters:

Parameter	Unit/Group ID	Range		
		Min	Max	Units
Retention Time	EUMELTING	0.5	NA	seconds
Cupola Temperature	EUMELTING	1,350	NA	°F

II. Inspection & Routine Maintenance - Monitoring Device(s)

Description: Required control device operating parameters (listed below) are manually monitored and the readings are manually recorded. These measurements are taken at pre-set intervals and are subsequently analyzed for compliance against corresponding application limitations by the Environmental Manager.

Inspection, maintenance, and repair of the monitoring devices are conducted by or under the direction of the Maintenance Superintendent.

Monitored Operating Devices:

Device	Interval	Action Performed	MDEQ Code
1. Thermocouple	Daily	Monitors the temperature of the cupola	R 336.1213

Calibration Schedule: All instruments used for measuring air pollution control device operating parameters shall be calibrated at a frequency based on good engineering practices as established by operational history, whichever is more frequent pursuant to R 336.1213(3), Michigan Air Pollution Control Rules.

Date Prepared:	<u>January, 2002</u>	Date Updated:	<u>December 2013</u>
Prepared By:	<u>Stephanie Spice (RMT, Inc.)</u>	Updated By:	<u>Ben Lemley (TRC)</u>

Appendix B

Venturi Scrubber (SV011)

**Cadillac Casting Inc., Cadillac, MI
Malfunction Abatement Plan**

**Air Pollution Control Equipment:
Process Equipment:
Associated Stack/Vent ID No.'s:**

**Venturi Scrubber
EUMELTING
SV011**

I. Inspection & Routine Maintenance - Air Pollution Control Equipment

Description: The venturi scrubber is used to control particulate matter (PM), sulfur dioxide, volatile organic compounds (VOC), manganese, and lead.

<u>Unit/Group ID</u> EUMELTING	<u>Process Description</u> Metal Melting	<u>Control Device Description/Mfg.</u> Venturi Scrubber	<u>Stack/Vent ID</u> SV011
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Inspection, maintenance, and repair of the venturi scrubber is conducted by or under the direction of the Maintenance Superintendent.

Items & Conditions To Check: The following items and operating conditions will be checked during each inspection at or before the specified maximum maintenance interval.

Daily

- Check the general cleanliness and operation of the venturi scrubber
- Check the associated water pump for proper operation

Weekly

- Check the condition of the fan (e.g., build-up of foreign matter on rotor, cracks and excessive wear of rotor, etc.)
- Check belts (e.g., loose or worn, proper tension, etc.), and repair or replace as necessary
- Check the structural integrity of the venturi scrubber

Quarterly

- Check condition of bearings for high operating temperatures or vibration
- Lubricate parts (e.g., fans, bearings, motors, etc.), as necessary

Annual

- Check fans and motors for vibration and noise
- Check shaft and sheave alignment, and repair as necessary

Recordkeeping: A summary of the maintenance activities performed will be prepared every 6 months and maintained in the master MAP which is maintained in the office of the Environmental Manager.

Spare Parts Inventory: The following spare parts are maintained in inventory for preventative maintenance purposes:

1. Spare belts
2. Spare motors
3. Spare bearings
4. Miscellaneous spare pump parts

Regulatory Applicability: The following regulations are applicable to processes controlled by this control device category. It is important to note that the following is not intended to be a complete listing of all limitations that apply to the emission source controlled by the equipment covered under this Malfunction Abatement Plan.

Material	Unit/Group ID	Underlying Code	Limitation/Requirement
Metal, Non specific	EUMELTING	40 CFR 52.21(c) & (d)	not charge cupola with more than 16,667 tons of metal per month based on a 12-month rolling time period
Metal, Non specific	EUMELTING	40 CFR 52.21(c) & (d)	not charge cupola with more than 200,000 tons of metal per year

**Cadillac Casting Inc., Cadillac, MI
Malfunction Abatement Plan**

Air Pollution Control Equipment:
Process Equipment:
Associated Stack/Vent ID No.'s:

Venturi Scrubber
EUMELTING
SV011

Pollutant	Unit/Group ID	Underlying Code	Limitation/Requirement
Particulate Matter (PM)	EUMELTING	R 336.1331(1)(c)	not exceed 18 lbs/hr, 0.38 lbs/ton of metal charged, 3.17 TPM, or 38.0 TPY
Visible Emissions (PM)	EUMELTING	R 336.1301(1)(c)	0% opacity
Sulfur Dioxide (SO ₂)	EUMELTING	40 CFR 52.21(c) & (d)	not exceed 17.7 lbs/hr, 0.38 lbs/ton of metal melted, 3.2 TPM, or 38.0 TPY
Volatile Organic Compounds (VOC)	EUMELTING	40 CFR 52.21(c) & (d)	not exceed 3.6 lbs/hr, 0.12 lbs/ton of metal charged, 0.65 TPM, or 7.74 TPY
Manganese	EUMELTING	40 CFR 52.21(c) & (d)	not exceed 0.62 lbs/hr or 1.35 TPY
Lead	EUMELTING	40 CFR 52.21(c) & (d)	not exceed 0.3 lbs/hr, 0.0065 lbs/ton of metal charged, 0.054 TPM, or 0.65 TPY

Compliance: Compliance with the regulations cited above is documented via the following operating parameters:

Parameter	Unit/Group ID	Range		
		Min	Max	Units
Pressure Drop	EUMELTING	42	NA	"w.g.
Water Flow Rate	EUMELTING	115	NA	gal/min

II. Inspection & Routine Maintenance - Monitoring Device(s)

Description: Required control device operating parameters (listed below) are manually monitored and the readings are manually recorded. These measurements are taken at pre-set intervals and are subsequently analyzed for compliance against corresponding application limitations by the Environmental Manager.

Inspection, maintenance, and repair of the monitoring devices are conducted by or under the direction of the Maintenance Superintendent.

Monitored Operating Devices:

	<u>Device</u>	<u>Interval</u>	<u>Action Performed</u>	<u>MDEQ Code</u>
1.	Pressure Drop Gauge	Daily	Monitors pressure drop across the scrubber	R 336.1201
2.	Flow Rate Meter	Daily	Monitors the liquor flow rate of the scrubber	R 336.1201

Calibration Schedule: All instruments used for measuring air pollution control device operating parameters shall be calibrated at a frequency based on good engineering practices as established by operational history, whichever is more frequent pursuant to R 336.1213(3), Michigan Air Pollution Control Rules.

Date Prepared:	<u>January, 2002</u>	Date Updated:	<u>December 2013</u>
Prepared By:	<u>Stephanie Spice (RMT, Inc.)</u>	Updated By:	<u>Ben Lemley (TRC)</u>

Appendix C
Baghouses (SV002, SV007, SV008, SV001,
SV004, SV013)

Cadillac Casting Inc., Cadillac, MI
Malfunction Abatement Plan

Air Pollution Control Equipment:

Baghouses

Process Equipment:

**EUSPOGREENSAND, EUSPOBREAKANDSORT,
 EUALINESAND, EUFINISHING**

Associated Stack/Vent ID No.'s:

SV002, SV007, SV008, SV001/SV004/SV013

I. Inspection & Routine Maintenance - Air Pollution Control Equipment

Description: The baghouses and sand tank vent filter are used to control particulate matter (PM), manganese, and lead.

<u>Unit/Group ID</u>	<u>Process Description</u>	<u>Control Device Description/Mfg.</u>	<u>Stack/Vent ID</u>
EUSPOGREENSAND	Sand preparation	Carter Day Baghouse	SV002
EUSPOBREAKSORT	Breaking and sorting line	80,000 cfm Baghouse #1	SV007
EUSPOBREAKSORT	Breaking and sorting line	80,000 cfm Baghouse #2	SV008
EUALINESAND	A-Line sand handling	Sly Automatic Shaker Baghouse	NA
EUALINESAND	A-Line sand handling	Sand Tank Vent Filter	NA
EUFINISHING	Metal Finishing	40,000 cfm Pulse Jet Baghouse	SV001
EUFINISHING	Metal Finishing	12,000 cfm Automatic Shaker Baghouse	SV004
EUFINISHING	Metal Finishing	Sly Automatic Shaker Baghouse	SV013

Inspection, maintenance, and repair of the baghouses are conducted by or under the direction of the Maintenance Superintendent.

Items & Conditions To Check: The following items and operating conditions will be checked during each inspection at or before the specified maximum maintenance interval.

Daily

- Check the general cleanliness and operation of the baghouse
- For the A-Line sand tank vent filter visually inspect the new sand silo during sand transport.

Weekly

- Check the condition of the fan (e.g., build-up of foreign matter on rotor, cracks and excessive wear of rotor, etc.)
- Check belts (e.g., loose or worn, proper tension, etc.), and repair or replace as necessary
- Check the structural integrity of the baghouse
- Check the Baghouse shaker system
- Check the Baghouse discharge system
- For the A-Line sand tank vent filter blow down dust from filters.
- For the A-Line sand tank vent filter inspect filters to determine need for and schedule filter changes.

Quarterly

- Check condition of bearings for high operating temperatures or vibration
- Lubricate parts (e.g., fans, bearings, motors, etc.), as necessary

Annual

- Check fans and motors for vibration and noise
- Check shaft and sheave alignment, and repair as necessary

Recordkeeping: A summary of the maintenance activities performed will be prepared every 6 months and maintained in the master MAP which is maintained in the office of the Environmental Manager.

Spare Parts Inventory: The following spare parts are maintained in inventory for preventative maintenance purposes:

1. Spare belts
2. Spare motors <100 HP
3. Spare bearings
4. Shaker spare parts

**Cadillac Casting Inc., Cadillac, MI
Malfunction Abatement Plan**

Air Pollution Control Equipment:

Baghouses

Process Equipment:

**EUSPOGREENSAND, EUSPOBREAKANDSORT,
EUALINESAND, EUFINISHING**

Associated Stack/Vent ID No.'s:

SV002, SV007, SV008, SV001/SV004/SV013

*Regulatory
Applicability:*

The following regulations are applicable to processes controlled by this control device category. It is important to note that the following is not intended to be a complete listing of all limitations that apply to the emission source controlled by the equipment covered under this Malfunction Abatement Plan.

Material	Unit/Group ID	Underlying Code	Limitation/Requirement
NA	EUSPOGREENSAND	336.1205(a)	NA
NA	EUSPOBREAKSORT	336.1205(a)	NA
NA	EUALINESAND	40 CFR 52.21(c) & (d)	NA
NA	EUFINISHING	40 CFR 52.21(c) & (d)	NA

Pollutant	Unit/Group ID	Underlying Code	Limitation/Requirement
Particulate Matter (PM)	EUSPOGREENSAND	R 336.1331(1)(c)	PM emission rate from green sand system shall not exceed 0.36 lbs/ton metal processed or 32.0 TPY based on a 12-month rolling time period
Particulate Matter (PM)	EUSPOBREAKSORT	R 336.1331(1)(c)	PM emission rate from the breaking and sorting conveyor and 6 cut-off saws shall not exceed 0.27 lbs/ton metal processed or 24.0 TPY based on a 12-month rolling time period
NA	EUALINESAND	NA	NA
Particulate Matter (PM)	EUFINISHING	R 336.1331, R 336.1301(1)(c)	PM emissions shall not exceed 0.03 lbs/1,000 lbs of exhaust gases, 7 lbs/hr, 2.5 TPM based on a 12-month rolling time period and calculated on a dry gas basis, and not exceed 29.8 TPY. Visible emissions shall not exceed 5% opacity.

**Cadillac Casting Inc., Cadillac, MI
Malfunction Abatement Plan**

Air Pollution Control Equipment: **Baghouses**
Process Equipment: **EUSPOGREENSAND, EUSPOBREAKANDSORT, EUALINESAND, EUFINISHING**
Associated Stack/Vent ID No.'s: **SV002, SV007, SV008, SV001/SV004/SV013**

Compliance: Compliance with the regulation cited above is demonstrated via the following operating parameters:

Parameter	Process	Control Device	Range		
			Low	High	Units
Pressure drop	EUSPOGREENSAND	Carter day Baghouse	1.5	5	in-H2O
Pressure drop	EUSPOBREAKSORT	80,000 cfm Baghouse #1	1	10	in-H2O
Pressure drop	EUSPOBREAKSORT	80,000 cfm Baghouse #2	1	9	in-H2O
Pressure drop	EUALINESAND	Sly Automatic Shaker Baghouse	2	6	in-H2O
Pressure drop	EUFINISHING	40,000 cfm Pulse Jet Baghouse	2	6	in-H2O
Pressure drop	EUFINISHING	12,000 cfm Automatic Shaker Baghouse	1	8	in-H2O
Pressure drop	EUFINISHING	Sly Automatic Shaker Baghouse	2	6	in-H2O

II. Inspection & Routine Maintenance - Monitoring Device(s)

Description: Required control device operating parameters (listed below) are manually monitored and the readings are manually recorded. These measurements are taken at pre-set intervals and are subsequently analyzed for compliance against corresponding application limitations by the Environmental Manager.

Inspection, maintenance, and repair of the monitoring devices are conducted by or under the direction of the Maintenance Superintendent.

Monitored Operating

<i>Devices:</i>	<u>Device</u>	<u>Interval</u>	<u>Action Performed</u>	<u>MDEQ Code</u>
1.	Pressure Drop Gauge	Daily	Monitors pressure drop across the Baghouses	R 336.1201

Calibration Schedule: All instruments used for measuring air pollution control device operating parameters shall be calibrated at a frequency based on good engineering practices as established by operational history, whichever is more frequent pursuant to R 336.1213(3), Michigan Air Pollution Control Rules.

Date Prepared:	<u>January, 2002</u>	Date Updated:	<u>March, 2019</u>
Prepared By:	<u>Stephanie Spice (RMT, Inc.)</u>	Updated By:	<u>Ben Lemley (TRC)</u>

Appendix D

Amine Catalyst Scrubber (SV018/SV019, SV020)

**Cadillac Casting Inc., Cadillac, MI
Malfunction Abatement Plan**

**Air Pollution Control Equipment:
Process Equipment:
Associated Stack/Vent ID No.'s:**

**Catalyst Scrubbers
EUCOREMOLDMAKING, EUALINEMOLD
SV018, SV019/SV020**

I. Inspection & Routine Maintenance - Air Pollution Control Equipment

Description: Three scrubbers are used to control gas catalyst emissions from the following processes.

<u>Unit/Group ID</u>	<u>Process Description</u>	<u>Control Device Description/Mfg.</u>	<u>Stack/Vent ID</u>
EUCOREMOLDMAKING	Catalyzed core and mold making	Dakota Model DI-68	SV018
EUALINEMOLD	A-Line core and mold making	West Dakota Scrubber	SV019
		East Dakota Scrubber	SV020

Inspection, maintenance, and repair of the gas catalyst scrubbers are conducted by or under the direction of the Maintenance Superintendent.

Items & Conditions To Check: The following items and operating conditions will be checked during each inspection at or before the specified maximum maintenance interval.

Daily

- Check the general cleanliness and operation of the wet scrubber
- Check the associated pumps for proper operation

Weekly

- Check the condition of the fan (e.g., build-up of foreign matter on rotor, cracks and excessive wear of rotor, etc.)
- Check belts (e.g., loose or worn, proper tension, etc.), and repair or replace as necessary
- Check the structural integrity of the scrubbers

Quarterly

- Check condition of bearings for high operating temperatures or vibration
- Lubricate parts (e.g., fans, bearings, motors, etc.), as necessary

Annual

- Check fans and motors for vibration and noise
- Check shaft and sheave alignment, and repair as necessary

Recordkeeping: A summary of the maintenance activities performed will be prepared every 6 months and maintained in the master MAP which is maintained in the office of the Environmental Manager.

Spare Parts Inventory: The following spare parts are maintained in inventory for preventative maintenance purposes:

1. Spare belts
2. Spare motors
3. Spare bearings
4. Miscellaneous spare pump parts

Regulatory Applicability: The following regulations are applicable to processes controlled by this control device category. It is important to note that the following is not intended to be a complete listing of all limitations that apply to the emission source controlled by the equipment covered under this Malfunction Abatement Plan.

Material	Unit/Group ID	MDEQ Codes	Limitation/Requirement
NA	EUCOREMOLDMAKING	NA	NA
Sand	EUALINEMOLD	R 336.1205	not process more than 106,000 tons of sand in the Sutter mold machines per 12-month rolling time period of 41.5 tons per hour

**Cadillac Casting Inc., Cadillac, MI
Malfunction Abatement Plan**

Air Pollution Control Equipment:
Process Equipment:
Associated Stack/Vent ID No.'s:

Catalyst Scrubbers
EUCOREMOLDMAKING, EUALINEMOLD
SV018, SV019/SV020

Pollutant	Unit/Group ID	MDEQ Codes	Limitation/Requirement
Amine Catalyst	EUCOREMOLDMAKING	R 336.1702(c)	not exceed 0.01 lb/hr or 0.044 TPY
Volatile Organic Compounds (VOC)	EUCOREMOLDMAKING	R 336.1702(c)	not exceed 79 lb/hr or 14.93 TPM or 179.2 TPY
Particulate Matter (PM)	EUCOREMOLDMAKING	R 336.130(1(c))	0% opacity
Volatile Organic Compounds (VOC)	EUALINEMOLD	R 336.1702	not exceed 27.5 lb/hr or 35.3TPY
Amine Catalyst	EUALINEMOLD	R 336.1227	not exceed 0.07 lb/hr and 2.34 mg/m ³

Compliance: Compliance with the regulation cited above is demonstrated via the following operating parameters:

Parameter	Unit/Group ID	Range		
		Min	Max	Units
pH Reading	EUCOREMOLDMAKING	NA	5	
Water Flow Rate	EUCOREMOLDMAKING	50	NA	gal/min
pH Reading	EUALINEMOLD	NA	5	
Water Flow Rate	EUALINEMOLD	50	NA	gal/min

II. Inspection & Routine Maintenance - Monitoring Device(s)

Description: Required control device operating parameters (listed below) are manually monitored and the readings are manually recorded. These measurements are taken at pre-set intervals and are subsequently analyzed for compliance against corresponding application limitations by the Environmental Manager.

Inspection, maintenance, and repair of the monitoring devices are conducted by or under the direction of the Maintenance Superintendent.

Monitored Operating Devices:

	Device	Interval	Action Performed	MDEQ Code
1.	pH Instrumentation	Daily	Monitors the pH reading of the scrubber	R 336.1201
2.	Flow Rate Meter	Daily	Monitors the liquor flow rate of the scrubber	R 336.1201

Calibration Schedule: All instruments used for measuring air pollution control device operating parameters shall be calibrated at a frequency based on good engineering practices as established by operational history, whichever is more frequent pursuant to R 336.1213(3), Michigan Air Pollution Control Rules.

Date Prepared:	<u>January, 2002</u>	Date Update	<u>March, 2019</u>
Prepared By:	<u>Stephanie Spice (RMT, Inc.)</u>	Updated By:	<u>Ben Lemley (TRC)</u>

Appendix E

Impingement Wet Scrubber

(SV003, SV010)

**Cadillac Casting Inc., Cadillac, MI
Malfunction Abatement Plan**

**Air Pollution Control Equipment:
Process Equipment:
Associated Stack/Vent ID No.'s:**

**Impingement Wet Scrubber
EUSPOGREENSAND, EUSPOSHAKEOUT
SV003, SV010**

I. Inspection & Routine Maintenance - Air Pollution Control Equipment

Description: One impingement wet scrubber is used to control particulate matter (PM) emissions from each of the following processes.

<u>Unit/Group ID</u>	<u>Process Description</u>	<u>Control Device Description/Mfg.</u>	<u>Stack/Vent ID</u>
EUSPOGREENSAND	Sand Preparation	North Multiwash scrubber	SV010
EUSPOSHAKEOUT	Breaking and Sorting Line	South Multiwash scrubber	SV003

Inspection, maintenance, and repair of the impingement wet scrubber are conducted by or under the direction of the Maintenance Superintendent.

Items & Conditions To Check: The following items and operating conditions will be checked during each inspection at or before the specified maximum maintenance interval.

Daily

- Check the general cleanliness and operation of the impingement wet scrubber
- Check the associated pump for proper operation

Weekly

- Check the condition of the fan (e.g., build-up of foreign matter on rotor, cracks and excessive wear of rotor, etc.)
- Check belts (e.g., loose or worn, proper tension, etc.), and repair or replace as necessary
- Check the structural integrity of the impingement wet scrubber

Quarterly

- Check condition of bearings for high operating temperatures or vibration
- Lubricate parts (e.g., fans, bearings, motors, etc.), as necessary

Annual

- Check fans and motors for vibration and noise
- Check shaft and sheave alignment, and repair as necessary

Recordkeeping: A summary of the maintenance activities performed will be prepared every 6 months and maintained in the master MAP which is maintained in the office of the Environmental Manager.

Spare Parts Inventory: The following spare parts are maintained in inventory for preventative maintenance purposes:

1. Spare belts
2. Spare motors
3. Spare bearings
4. Miscellaneous spare pump parts

Regulatory Applicability: The following regulations are applicable to processes controlled by this control device category. It is important to note that the following is not intended to be a complete listing of all limitations that apply to the emission source controlled by the equipment covered under this Malfunction Abatement Plan.

Pollutant	Unit/Group ID	Underlying Code	Limitation/Requirement
Particulate Matter (PM)	EUSPOGREENSAND	R 336.1331(1)(c)	PM emission rate from green sand system shall not exceed 0.36 lbs/ton metal processed or 32.0 TPY based on a 12-month rolling time period
Particulate Matter (PM)	EUSPOSHAKEOUT	R 336.1331(1)(c)	PM emission rate from the shakeout and mold system shall not exceed 0.27 lbs/ton metal processed or 24.0 TPY based on a 12-month rolling time period

**Cadillac Casting Inc., Cadillac, MI
Malfunction Abatement Plan**

Air Pollution Control Equipment:
Process Equipment:
Associated Stack/Vent ID No.'s:

Impingement Wet Scrubber
EUSPOGREENSAND, EUSPOSHAKEOUT
SV003, SV010

Compliance: Compliance with the regulation cited above is documenstrated via the following operating parameters:

Parameter	Unit/Group ID	Range		
		Min	Max	Units
Pressure drop across the impingement wet scrubber*	EUSPOGREENSAND	7	NA	"w.g.
Water flow rate	EUSPOGREENSAND	150	NA	gal/min
Pressure drop across the impingement wet scrubber*	EUSPOSHAKEOUT	7	NA	"w.g.
Water flow rate	EUSPOSHAKEOUT	150	NA	gal/min

* Maintain a minimum average hourly pressure drop across the scrubber of 7 inches W.G. or the average of pressure drops derived from testing, whichever is greater.

II. Inspection & Routine Maintenance - Monitoring Device(s)

Description: Required control device operating parameters (listed below) are manually monitored and the readings are manually recorded. These measurements are taken at pre-set intervals and are subsequently analyzed for compliance against corresponding application limitations by the Environmental Manager.

Inspection, maintenance, and repair of the monitoring devices are conducted by or under the direction of the Maintenance Superintendent.

Monitored Operating Devices:

<u>Device</u>	<u>Interval</u>	<u>Action Performed</u>	<u>MDEQ Code</u>
1. Pressure Drop Gauge	Daily	Monitors pressure drop across the scrubbers	R 336.1213
2. Flow Rate Meter	Daily	Monitors the water flow rate of the scrubbers	R 336.1213

Calibration Schedule: All instruments used for measuring air pollution control device operating parameters shall be calibrated at a frequency based on good engineering practices as established by operational history, whichever is more frequent pursuant to R 336.1213(3), Michigan Air Pollution Control Rules.

Date Prepared:	<u>January, 2002</u>	Date Updated:	<u>December 2013</u>
Prepared By:	<u>Stephanie Spice (RMT, Inc.)</u>	Updated By:	<u>Ben Lemley (TRC)</u>

Appendix F

Thermal Regenerative Oxidizer (SV014)

Cadillac Casting Inc., Cadillac, MI
Malfunction Abatement Plan

Air Pollution Control Equipment:
Process Equipment:
Associated Stack/Vent ID No.'s:

Regenerative Thermal Oxidizer
EUALINE
SV014

I. Inspection & Routine Maintenance - Air Pollution Control Equipment

Description: One thermal regenerative oxidizer is used to control volatile organic compounds (VOC) emissions and carbon monoxide emissions that are discharged through the exhaust.

<u>Unit/Group ID</u>	<u>Process Description.</u>	<u>Control Device Description/Mfg.</u>	<u>Stack/Vent ID</u>
EUALINE	Iron pouring and cooling line	Regenerative Thermal Oxidizer (RTO)	SV014

Inspection, maintenance, and repair of the oxidizer are conducted by or under the direction of the Maintenance Superintendent.

Items & Conditions To Check: The following items and operating conditions will be checked during each inspection at or before the specified maximum maintenance interval.

Daily

Check the general cleanliness and operation of the RTO

Weekly

Check the condition of the fan (e.g., build-up of foreign matter on rotor, cracks and excessive wear of rotor, etc.)

Check belts (e.g., loose or worn, proper tension, etc.), and repair or replace as necessary

Check the structural integrity of the RTO

Quarterly

Check condition of bearings for high operating temperatures or vibration

Lubricate parts (e.g., fans, bearings, motors, etc.), as necessary

Annual

Check fans and motors for vibration and noise

Check shaft and sheave alignment, and repair as necessary

Recordkeeping: A summary of the maintenance activities performed will be prepared every 6 months and maintained in the master MAP which is maintained in the office of the Environmental Manager.

Spare Parts Inventory: The following spare parts are maintained in inventory for preventative maintenance purposes:

1. Spare belts
2. Spare motors
3. Spare bearings

Regulatory Applicability: The following regulations are applicable to processes controlled by this control device category. It is important to note that the following is not intended to be a complete listing of all limitations that apply to the emission source controlled by the equipment covered under this Malfunction Abatement Plan.

**Cadillac Casting Inc., Cadillac, MI
Malfunction Abatement Plan**

**Air Pollution Control Equipment:
Process Equipment:
Associated Stack/Vent ID No.'s:**

**Regenerative Thermal Oxidizer
EUALINE
SV014**

Material	Unit/Group ID	Underlying Code	Limitation/Requirement
Metal, Non Specific	EUALINE	R 336.1205(1)(a)	not exceed a pouring rate of 67,000 TPY based on a 12-month rolling time period

Pollutant	Unit/Group ID	Underlying Code	Limitation/Requirement
Volatile Organic Compounds (VOC)	EUALINE	R 336.1702(c)	RTO stack VOC emissions shall not exceed 26.7 TPY based on a 12-month rolling period
Carbon Monoxide	EUALINE	R 336.1205(1)(a)	RTO stack Carbon Monoxide emissions shall not exceed 29.1 TPY based on a 12-month rolling time period

Compliance:

Compliance with the regulation cited above is demonstrated via the following operating parameters: are within their respective ranges as identified below.

Parameter	Unit/Group ID	Range		
		Min	Max	Units
Temperature Setting	EUALINE	1,500	NA	°F

II. Inspection & Routine Maintenance - Monitoring Device(s)

Description:

Required control device operating parameters (listed below) are manually monitored and the readings are manually recorded. These measurements are taken at pre-set intervals and are subsequently analyzed for compliance against corresponding application limitations by the Environmental Manager.

Inspection, maintenance, and repair of the monitoring devices are conducted by or under the direction of the Maintenance Superintendent.

Monitored Operating Devices:

Device	Interval	Action Performed	MDEQ Code
1. Thermocouple	Daily	Monitors the temperature of the RTO	R 336.1213

Calibration Schedule:

All instruments used for measuring air pollution control device operating parameters shall be calibrated at a frequency based on good engineering practices as established by operational history, whichever is more frequent pursuant to R 336.1213(3), Michigan Air Pollution Control Rules.

Date Prepared:	<u>January, 2002</u>	Date Updated:	<u>December 2013</u>
Prepared By:	<u>Stephanie Spice (RMT, Inc.)</u>	Updated By:	<u>Ben Lemley (TRC)</u>

Appendix G

Parts Washer

**Cadillac Casting Inc., Cadillac, MI
Malfunction Abatement Plan**

**Air Pollution Control Equipment:
Process Equipment:
Associated Stack/Vent ID No.'s:**

**Degreaser/Cold Cleaner
EUCOLDCLEANER
NA**

I. Inspection & Routine Maintenance - Air Pollution Control Equipment

Description: Three existing immersion cold cleaners with covers and drains used to clean metal parts for maintenance purposes and any future cold cleaner that is installed and is exempt from NST permitting. Only non-halogenated solvent is used.

<u>Unit/Group ID</u>	<u>Process Description</u>	<u>Control Device Description/Mfg.</u>	<u>Stack/Vent ID</u>
EUCOLDCLEANER	Clean Metal Parts	Degreaser/Cold Cleaner	NA

Inspection, maintenance, and repair of the bin vents are conducted by or under the direction of the Maintenance Superintendent.

Items & Conditions To Check: The following items and operating conditions will be checked during each inspection at or before the specified maximum maintenance interval.

Checklist for use of cleaning solvents

- Check the date of each cold cleaner
 - The identification name/number, air/vapor interface area and type of solvent used shall be maintained for each cold cleaner
 - An initial demonstration that the waste solvent is a safety hazard shall be made prior to storage in non-closed containers
- As noted in R 336.1707(2), if applicable, the option chosen to comply with R 336.1707(2) shall be recorded

Monthly

- If the waste is stored in non-closed containers, verification that the waste solvent is disposed of so that not more than 20% by weight, is allowed to evaporate into the atmosphere
- If the solvent is heated, the solvent temperature shall be monitored and recorded during peak operating conditions

Regulatory Applicability: The following regulations are applicable to processes controlled by this control device category. It is important to note that the following is not intended to be a complete listing of all limitations that apply to the emission source controlled by the equipment covered under this Malfunction Abatement Plan.

Material	Unit/Group ID	MDEQ Codes	Limitation/Requirement
Cleaning Solvents	EUPARTSWASHERS	R 336.1213(2)	The permittee shall not use cleaning solvents containing more than 5% by weight of the following halogenated compounds; methylene chloride, perchloroethylene, trichloroethylene, 1,1,1-trichloroethane, carbon tetrachloride, chloroform, or any combination thereof

Pollutant	Unit/Group ID	MDEQ Codes	Limitation/Requirement
NA	EUPARTSWASHERS	NA	NA

Date Prepared: <u>January, 2002</u>	Date Updated: <u>December 2013</u>
Prepared By: <u>Stephanie Spice (RMT, Inc.)</u>	Updated By: <u>Ben Lemley (TRC)</u>

Preventative Maintenance Plans

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Assets

Add	Edit	Delete	List	<<	GoTo	>>	Actions	Options
Asset ID: 601415 Asset Description: BREAKING LINE DUST COLLECTOR - 80 K Asset Type Description: _____ Department: CDCSPO Type: A _____ Manufacturer: _____ Criticality: EQ-A _____ Model No.: _____ Out of Service: False _____ Serial No.: _____ Out of Service Date: _____ PLC ID #: _____ Weblink: _____ Comments: _____ Monitor Class: _____ Lubrication Type: _____								

Meter Readings

Add	Options				
Tran. ID.	Meter Type	Date Taken	Taken By	Meter Reading Reset	Meter total
No Records Found.					

PM Schedule

Add	Options	Copy PM Schedule	Learn More					
Produce Calendar Every? Based Freq.		Next PM Date	Brief Description	Last PM Work Order Date	Last PM Work Order No.	Calendar Freq Type	Assign To	Est. Hours
GoTo	2.00 Weeks	04/10/2019	DUST-BW-LUB:DUST COLL. BI-WEEKLY LUBRICATION	03/27/2019	465204	Shadow	Maint-2nd	0.00
GoTo	4.00 Weeks	04/20/2019	DUST-M-GINSP3:DUST COLLECTOR MONTHLY GENERAL INSPECTION 3	03/23/2019	464770	Shadow	Maint-1st	4.30
GoTo	4.00 Weeks	04/20/2019	DUST-4W-80KINSP: VISOLITE INSPECTION	03/23/2019	464771	Shadow	Maint-1st	0.00
GoTo	2.00 Days	04/01/2019	DUST-W-GINSP1:DUST COLL. WEEKLY INSPECTION	03/27/2019	465205	Shadow	Maint-1st	0.00
GoTo	6.00 Weeks	04/13/2019	DUCTWORK INSPECTION	02/23/2019	461784	Shadow	Maint-3rd	2.00
GoTo	2.00 Weeks	04/01/2019	AUTOLUBE CANISTER INSPECTION	03/18/2019	464236	Shadow	Maint-1st	0.10

Related Parts

Add	Options			
Item	Descrip	Qty	Unitms	Category
GoTo	2491	FILTER, MIDWESCO, FW0368-STO2, 5x132	1374.00	ea filter bag

Name Plate Information

Add	Options	Import Attributes
Plateid	Descrip	Value
No Records Found.		

Monitoring Points

Options	Add New Class	Delete Class
Monitor Class	Monitor Type	Upper bound
No Records Found.		

Asset Documents

Options



Home	Navigation	Assets	Work Orders	Contacts	Reports	Parts
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Edit	Delete	Actions	Options	
Pmid: <u>1PO0UGZZD</u>		Next PM Date: <u>04/10/2019</u>		
Asset ID: <u>601415</u>				
Work Order Type: <u>PM-LUBE</u>		Last PM Work Order Date: <u>03/27/2019</u>		
PM Group:		Last PM Work Order No.: <u>465204</u>		
Calendar Based		Meter Based		
Produce Every?: <u>2</u>		Produce PM Every: <u>0</u>		
Calendar Based Freq.: <u>Weeks</u>		Occurs Desc.:		
Calendar Freq Type: <u>Shadow</u>		Meter Type: <u>TOTALS</u>		
		Daily Average: <u>0</u>		
		Last Meter Reading Entry: <u>0</u>		
		Last Meter Reading Date:		
		Last PM Produced At: <u>0</u>		
On Calendar?: <u>True</u>		Meter To-Date: <u>0</u>		
Route Sequence:		Skip Mondays?: <u>False</u>		
Route:		Skip Tuesdays?: <u>False</u>		
Assign To Type: <u>Maint Supv</u>		Skip Wednesdays?: <u>False</u>		
Assign To: <u>Maint-2nd</u>		Skip Thursdays?: <u>False</u>		
Perform For Type: <u>n/a</u>		Skip Fridays?: <u>True</u>		
Perform For:		Skip Saturdays?: <u>True</u>		
Task No.: <u>0341</u>		Skip Sundays?: <u>True</u>		
Brief Description: <u>DUST-BW-LUB:DUST COLL. BI-WEEKLY LUBRICATION</u>				
Detailed Text: <u>1. MAKE THE FOLLOWING LUBRICATIONS ON THE EQUIPMENT LISTED:</u>				
<p style="margin-left: 40px;">2. USE EP-2 OR STARPLEX-2 GREASE, UNLESS OTHERWISE INDICATED.</p> <p style="margin-left: 40px;">3. LUBRICATE THE FOLLOWING</p> <p style="margin-left: 40px;">A) INBOARD PILLOW BLOCK BEARING ON FAN.</p> <p style="margin-left: 40px;">B) OUTBOARD PILLOW BLOCK BEARING ON FAN.</p> <p style="margin-left: 40px;">C) EAST SHAKER MECHANISM, PILLOW BLOCK BEARINGS, (8) LUBE POINTS.</p> <p style="margin-left: 40px;">EAST SHAKER MECHANISM, CONNECTING LINKAGE, (10) LUBE POINTS.</p> <p style="margin-left: 40px;">D) MIDDLE SHAKER MECHANISM, PILLOW BLOCK BEARINGS, (8) LUBE POINTS.</p> <p style="margin-left: 40px;">MIDDLE SHAKER MECHANISM, CONNECITNG LINKAGE, (10) LUBE POINTS.</p> <p style="margin-left: 40px;">E) WEST SHAKER MECHANISM, PILLOW BLOCK BEARINGS, (8) LUBE POINTS.</p> <p style="margin-left: 40px;">WEST SHAKER MECHANISM, CONNECTING LINKAGE, (10) LUBE POINTS.</p> <p style="margin-left: 40px;">4. REPORT UNUSUAL CONDITIONS TO YOUR SUPERVISOR. </p>				
Weblink:		PM REVISION LOG:		
Old_task: <u>DUST-BW-LUB</u>				
Est. Hours: <u>0</u>				

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PM

Edit	Delete	Actions	Options
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Pmid: 1PO0UGZZE Next PM Date: 04/20/2019
 Asset ID: 601415

Work Order Type: PM-INSP Last PM Work Order Date: 03/23/2019
 PM Group: w/e Last PM Work Order No.: 464770

Calendar Based

Produce Every?: 4
 Calendar Based Freq.: Weeks
 Calendar Freq Type: Shadow

Meter Based

Produce PM Every: 0
 Occurs Desc.:
 Meter Type: TOTALS
 Daily Average: 0
 Last Meter Reading Entry: 0
 Last Meter Reading Date:
 Last PM Produced At: 0

On Calendar?: True
 Route Sequence:
 Route:
 Assign To Type: Maint Supv
 Assign To: Maint-1st

Meter To-Date: 0
 Skip Mondays?: True
 Skip Tuesdays?: True
 Skip Wednesdays?: True
 Skip Thursdays?: True
 Skip Fridays?: True
 Skip Saturdays?: False
 Skip Sundays?: True

Perform For Type: n/a
 Perform For:
 Task No.: 0503

Brief Description: DUST-M-GINSP3:DUST COLLECTOR MONTHLY GENERAL INSPECTION 3
 Detailed Text: BEFORE YOU WORK ON THIS UNIT, LOCK IT OUT!!
THE PURPOSE OF THIS P.M. IS TO INSURE THAT EQUIPMENT IS IN A-1 OPERATING CONDITION AND IS EMISSION FREE.

- ROTARY VALVE(S) MAKE THE FOLLOWING INSPECTIONS:
1. GEARBOX:
 - A) CHECK OIL LEVEL. ADD MEROPA 220 AS REQUIRED.
 - B) TIGHTEN ALL MOUNTING BOLTS.
 2. DRIVE MOTOR:
 - A) CHECK ELECTRICAL SEALTIGHT OR CONDUIT FOR DAMAGE.
 - B) TIGHTEN ALL MOUNTING BOLTS.
 3. DRIVE CHAIN AND SPROCKETS: (REMOVE GUARD)
 - A) CHECK DRIVE AND DRIVEN SPROCKETS FOR WEAR AND FOR PROPER ALIGNMENT.
 - B) TIGHTEN SET SCREWS.
 - C) CHECK FOR DAMAGE TO SHAFTS ON MOTOR AND ON ROTARY VALVE.
 - D) CHECK CHAIN FOR WEAR AND FOR PROPER TENSION, ADJUST AS REQUIRED.
 - E) REINSTALL GUARD.

SPROCKET INFORMATION: DRIVE SPROCKET LOC# 1M09I06A DRIVEN SPROCKET LOC# 1M09I07A
 4. PACKING GLAND:
 - A) CHECK PACKING GLAND FOR SIGNS OF DUST LEAKS. IF SIGNS OF LEAKS ARE PRESENT, IN A STATIONARY POSITION WITH THE POWER "OFF" ADJUST THE PACKING GLAND, TAKING CARE TO INSURE THAT THE GLAND IS PULLED UP EVENLY AND TO NO GREATER EXTENT THAN THE AMOUNT NECESSARY TO PREVENT LEAKS.
 - B) NOTE: TURN POWER "ON" AND RUN ROTARY VALVE AFTER ADJUSTMENTS ARE MADE AND CHECK FOR LEAKS.
 5. EXHAUST FAN: (REMOVE INSPECTION DOOR)
 - A) INSPECT IMPELLER FAN BLADES FOR WEAR, RUST AND FOR HOLES.
 - B) CHECK FOR BUILDUP ON BLADES, CLEAN ALL DEBRIS FROM INSIDE OF HOUSING.
 - C) CHECK INLET CONE FOR RUST, HOLES ETC.
 - D) CHECK INSIDE OF HOUSING FOR WEAR, RUST AND FOR HOLES.
 - E) REINSTALL INSPECTION DOOR.
 6. "V" BELTS: (REMOVE GUARD)
 - A) INSPECT "V" BELT FOR WEAR, CRACKS, FOR SIGNS OF DETERIORATION AND FOR PROPER TENSION. ADJUST AS REQUIRED.

7. SHEAVES:

- A) CHECK DRIVE AND DRIVEN SHEAVES FOR WEAR AND FOR PROPER ALIGNMENT. ADJUST AS REQUIRED.
- B) TIGHTEN SET SCREWS OR MOUNTING BOLTS.
- C) REINSTALL GUARD.

8. MOTOR:

- A) CHECK MOTOR MOUNTING FRAME FOR DAMAGE, CRACKS ETC.
- B) TIGHTEN MOTOR MOUNTING BOLTS.
- C) INSPECT ALL ELECTRICAL SEALTIGHT OR CONDUIT AND WIRING FOR DAMAGE.

9. PILLOWBLOCK BEARINGS:

- A) CHECK BEARINGS FOR FAILURE, TIGHTEN MOUNTING BOLTS. GREASE BEARINGS AS REQUIRED, USE EP-2 GREASE.

10. BLOWER HOUSING, FRAME AND DUCTWORK:

- A) CHECK BLOWER HOUSING FOR RUST, HOLES, CRACKS AND FOR BROKEN WELDS.
- B) FRAME: CHECK FOR CRACKS, BROKEN WELDS AND FOR LOOSE MOUNTING BOLTS.
- C) EXPANSION JOINT: CHECK RUBBER EXPANSION BAND FOR WEAR, HOLES, CRACKS AND FOR SIGNS OF DETERIORATION.
- D) DUCT WORK: INSPECT ALL DUCT WORK FOR RUST, HOLES AND FOR LOOSE OR DAMAGED SUPPORTS.

11. SHAKER MECHANISM DRIVE: IF APPLICABLE.

- A) GEARBOX: CHECK OIL LEVEL OF GEARBOXES, ADD MEROPA 220 OIL AS REQUIRED.
- B) FALK COUPLING: GREASE COUPLING USE EP-2 GREASE.

12. CHECK THE ENTIRE COLLECTOR FOR OTHER POSSIBLE PROBLEMS.

13. MAKE ALL NECESSARY REPAIRS AND ADJUSTMENTS.

14. REPORT ANY UNUSUAL CONDITIONS TO YOUR SUPERVISOR.]

Weblink:

Old_task: DUST-M-GINSP3

Est. Hours: 4.30

PM REVISION LOG:

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PM

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Pmid: 1PO0UGZZI
 Asset ID: 601415

Next PM Date: 04/20/2019

Work Order Type: PM-INSP
 PM Group: w/e

Last PM Work Order Date: 03/23/2019
 Last PM Work Order No.: 464771

Calendar Based

Produce Every?: 4
 Calendar Based Freq.: Weeks
 Calendar Freq Type: Shadow

Meter Based

Produce PM Every: 0
 Occurs Desc.:
 Meter Type: TOTALS
 Daily Average: 0
 Last Meter Reading Entry: 0
 Last Meter Reading Date:
 Last PM Produced At: 0

On Calendar?: True
 Route Sequence:
 Route:
 Assign To Type: Maint Supv
 Assign To: Maint-1st
 Perform For Type: n/a
 Perform For:
 Task No.: 0326

Meter To-Date: 0
 Skip Mondays?: True
 Skip Tuesdays?: True
 Skip Wednesdays?: True
 Skip Thursdays?: True
 Skip Fridays?: True
 Skip Saturdays?: False
 Skip Sundays?: True

Brief Description: DUST-4W-80KINSP: VISOLITE INSPECTION

Detailed Text: THE PURPOSE OF THIS TPM IS TO INSURE THIS EQUIPMENT IS IN A-1 OPERATING CONDITION AND IS EMISSION FREE.

1. VISOLITE TEST:

A) LOCK OUT "ONLY" THE THREE (3) SHAKER MECHANISMS MOTORS AT THE DISCONNECTS BEFORE PERFORMING THE FLUOROSCOPIC DYE TESTING, THE FAN MUST BE OPERATIONAL FOR THE TEST, BUT NOT THE SHAKERS.

* OBTAIN 20 LBS. OF BHA VISOLITE POWDER, (COMP #273.103.0021, LOCATION #2L11C02A) A FUNNEL, DUCT TAPE, GLOVES, GOGGLES AND AN OSHA APPROVED DUST MASK FROM THE STOCKROOM. OBTAIN THE FLUORESCENT, CORDLESS BLACKLIGHT FROM THE MAINTENANCE OFFICE.

B) START THE EXHAUST FAN WITH THE THREE (3) SHAKER MECHANISMS DISABLED.
 C) LOCATED ON THE ROOF, IN THE SUCTION DUCTWORK, FIND THE INJECTION PORT HOLE. WEARING THE GLOVES, GOGGLES AND DUST MASK, INSERT THE FUNNEL INTO THE INJECTION PORT AND BEGIN INJECTING THE VISOLITE POWDER. ADD VISOLITE INTO THE AIR STREAM AT A STEADY RATE. DO NOT DUMP VISOLITE INTO DUCT ALL AT ONCE!
 ** SHUT DOWN THE EXHAUST FAN AND "LOCK-IT-OUT"!!! **
 D) MAKE CERTAIN THAT THE SHAKER MECHANISMS DO NOT CYCLE, IF THEY DO THE VISOLITE POWDER WILL BE REMOVED AND LEAKS WILL NOT BE FOUND.
 E) ENTRY INTO THIS DUST COLLECTOR REQUIRES A CONFINED SPACE ENTRY PERMIT FROM SAFETY/ SECURITY DEPARTMENT!! OBTAIN A CONFINED SPACE ENTRY PERMIT AND TAKE THE CORDLESS FLUORESCENT LIGHT INTO THE BAGHOUSE.
 F) SHINE THE LIGHT UP AND DOWN EACH ROW OF BAGS, THE INLET BAFFLE HOUSING AND THE TUBE SHEET LOOKING FOR THE PRESENCE OF ANY VISOLITE POWDER THAT IS GLOWING. YOU WILL NEED TO MINIMIZE OUTSIDE LIGHT FOR THE VISOLITE POWDER TO APPEAR CLEARLY, TOTAL DARKNESS IS IDEAL. THE APPEARANCE OF ANY VISOLITE POWDER INDICATES THAT THERE IS A LEAK. ANY BAGS WITH LEAKS MUST BE REPLACED IMMEDIATELY.
 ANY CRACKS OR SEAMS THAT ARE LEAKING MUST BE WELDED, CAULKED OR SEALED WITH EPOXY.

2. SHAKER MECHANISMS:

TURN ON SHAKER MOTORS AND VERIFY THAT THE SHAKERS DO OPERATE. THE SHAKER IS A CRITICAL PART OF THE DUST COLLECTOR. IF THE SHAKER DOES NOT OPERATE PROPERLY, THE DUST WILL NOT BE REMOVED FROM THE BAGS, AND THE COLLECTOR WILL NOT REMOVE THE DUST FROM THE BLAST MACHINE.

3. LOCK OUT THE DUST COLLECTOR AT THE DISCONNECT. GO INSIDE AND MAKE THE FOLLOWING INSPECTIONS IN THE THREE COMPARTMENTS.

4. DUST TUBE BAGS: EAST _____ MIDDLE _____ WEST _____

- A) CHECK FOR MISSING BAGS.
- B) CHECK ALL BAGS FOR HOLES AND FOR SIGNS OF VISOLITE, REPLACE BAGS WITH HOLES.
- C) CHECK ALL BAGS FOR BEING SECURE TO FLOOR AND FOR TIGHT SEAL.

- D) CHECK FOR SAGGING BAGS AND FOR BAGS THAT ARE NOT PROPERLY ATTACHED TO HANGER BRACKET.
- E) CHECK FOR DUST BUILDUP AROUND BAGS, THIS COULD BE A SIGN OF HOLES IN BAGS.
- F) CHECK BAGS FOR BEING BRITTLE.
- G) CHECK FOR LOOSE OR BENT HANGER RODS.
- H) CHECK SHAKER ROD ASSEMBLY FOR WEAR AND FOR DAMAGE.

5. BAG TENSION:

- A) GRASP THE BAG BETWEEN TWO FINGERS AND TURN YOUR FINGERS 1/4 TURN.
- B) DO THIS APPROXIMATELY 4' TO 5' ABOVE THE FLOOR.
- C) THIS WILL GIVE YOU THE CORRECT AMOUNT OF TENSION.
- D) IF ADJUSTMENT IS REQUIRED, TIGHTEN THE TOP HANGER ROD AT TOP OF BAG.

6. BAG HOUSE: EAST _____ MIDDLE _____ WEST _____

- A) CHECK COMPARTMENTS FOR RUST AND FOR HOLES.
- B) CLEAN BAG HOUSE OF ALL DUST BUILDUP.

7. SHAKER MECHANISM (THREE UNITS): EAST _____ MIDDLE _____ WEST _____

- A) CHECK DRIVE SHAFT FOR WEAR AND FOR DAMAGE.
- B) CHECK ECCENTRIC ARM FOR DAMAGE AND WEAR.
- C) CHECK ALL CONNECTING RODS FOR WEAR AND DAMAGE.
- D) CHECK AND LUBE AS REQUIRED, (10) LUBE POINTS.
- E) CHECK ALL SHOULDER BOLTS AND TIGHTEN AS REQUIRED.
- F) CHECK (8) PILLOW BLOCK BEARINGS FOR FAILURE.
- G) CHECK AND LUBE BEARINGS AS REQUIRED.

8. SHAKER MOTOR: EAST _____ MIDDLE _____ WEST _____

- A) CHECK MOTOR MOUNTING FRAME FOR DAMAGE, CRACKS, ETC.
- B) TIGHTEN MOTOR MOUNTING BOLTS.
- C) INSPECT SEALTITE AND CONDUIT FOR DAMAGE.

9. MOTOR SHEAVES (REMOVE GUARD): EAST _____ MIDDLE _____ WEST _____

- A) CHECK DRIVE AND DRIVEN SHEAVES FOR WEAR AND FOR PROPER ALIGNMENT.
- B) TIGHTEN ALL SET SCREWS FOR MOUNTING BOLTS.

10. MOTOR "V" BELTS: EAST _____ MIDDLE _____ WEST _____

- A) INSPECT "V" BELTS FOR WEAR, FOR CRACKS, FOR SIGNS OF DETERIORATION.
- B) CHECK "V" BELTS FOR PROPER TENSION.
- C) REINSTALL GUARD.

11. CHECK COLLECTING CONES FOR BUILDUP. EAST _____ MIDDLE _____ WEST _____
EMPTY THE COLLECTING CONES IF NECESSARY.

12. NOTE: ALL REPAIRS MAKE TO THIS UNIT ON THE BACK OF THIS SHEET.

13. REMOVE YOUR LOCK, TEST RUN THE DUST COLLECTOR, MAKE SURE THAT THE COLLECTOR IS READY FOR PRODUCTION.

14. REPORT UNUSUAL CONDITIONS TO YOUR SUPERVISOR|

Weblink:

Old_task: DUST-W-80KINSP

PM REVISION LOG:

Est. Hours: 0

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Pmid: 1PO0UGZZJ
 Asset ID: 601415

Next PM Date: 04/01/2019

Work Order Type: PM-INSP
 PM Group:

Last PM Work Order Date: 03/27/2019
 Last PM Work Order No.: 465205

Calendar Based

Produce Every?: 2
 Calendar Based Freq.: Days
 Calendar Freq Type: Shadow

Meter Based

Produce PM Every: 0
 Occurs Desc.:
 Meter Type: TOTALS
 Daily Average: 0
 Last Meter Reading Entry: 0
 Last Meter Reading Date:
 Last PM Produced At: 0

On Calendar?: True
 Route Sequence:
 Route:
 Assign To Type: Maint Supv
 Assign To: Maint-1st
 Perform For Type: n/a
 Perform For:
 Task No.: 0339

Meter To-Date: 0
 Skip Mondays?: False
 Skip Tuesdays?: False
 Skip Wednesdays?: False
 Skip Thursdays?: False
 Skip Fridays?: True
 Skip Saturdays?: True
 Skip Sundays?: True

Brief Description: DUST-W-GINSP1:DUST COLL. WEEKLY INSPECTION
 Detailed Text: WHILE THE COLLECTOR IS RUNNING MAKE THIS INSPECTION.

- 1) BLOWER MOTOR:
 - A) CHECK FOR VIBRATION.
 - B) CHECK FOR RUNNING HOT.
 - C) TIGHTEN MOUNTING BOLTS.
 - D) LISTEN FOR UNUSUAL NOISES.

2. BEARINGS:
 - A) CHECK FOR RUNNING HOT AND/OR ROUGH.
 - B) TIGHTEN MOUNTING BOLTS.
 - C) CHECK FOR RECENT LUBRICATION.

3. BLOWER HOUSING AND DUCT:
 - A) INSPECT BLOWER HOUSING FOR RUST, HOLES, AND CRACKS.
 - B) CHECK FRAME AND SUPPORTS FOR POSSIBLE PROBLEMS.
 - C) IF PRESENT, CHECK EXPANSION JOINT FOR WEAR AND DETERIORATION.
 - D) CHECK DUCTWORK FOR HOLES, RUST, ETC.

4. ROTARY VALVE(S): CHECK ALL
 - A) CHECK FOR LEAKS AROUND THE PACKING GLAND.
 - B) CHECK MOTOR AND GEARBOX FOR VIBRATION.
 - C) CHECK VALVE HOUSINGS FOR CRACKS.
 - D) IS THERE DUST BUILDUP PRESENT UNDER THE UNIT?

5. OUTSIDE REFUSE BAGS:
 - A) CHECK AND INSURE THEY ARE SECURED TO THE UNIT.
 - B) IF BAGS ARE FULL, NOTIFY THE MAINTENANCE SUPV.

6. REPORT ANY UNUSUAL CONDITIONS TO YOUR SUPERVISOR.]

Weblink:
 Old_task: DUST-W-GINSP1
 Est. Hours: 0

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Edit	Delete	Actions	Options
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Pmid: 24H10EJH1 Next PM Date: 04/13/2019
 Asset ID: 601415

Work Order Type: PM-INSP Last PM Work Order Date: 02/23/2019
 PM Group: w/e Last PM Work Order No.: 461784

Calendar Based

Produce Every?: 6
 Calendar Based Freq.: Weeks
 Calendar Freq Type: Shadow

Meter Based

Produce PM Every: 0
 Occurs Desc.:
 Meter Type: N/A
 Daily Average: 0
 Last Meter Reading Entry: 0
 Last Meter Reading Date:
 Last PM Produced At: 0

On Calendar?: True

Route Sequence:

Route:

Assign To Type: Maint Supv

Assign To: Maint-3rd

Perform For Type: n/a

Perform For:

Task No.: 0809

Meter To-Date: 0

Skip Mondays?: True

Skip Tuesdays?: True

Skip Wednesdays?: True

Skip Thursdays?: True

Skip Fridays?: True

Skip Saturdays?: False

Skip Sundays?: True

Brief Description: DUCTWORK INSPECTION

Detailed Text: 1. INSPECT ALL THE MAIN DUCT AND BRANCH LINE DUCTS FOR HOLES. THIS IS A HANDS ON INSPECTION. NO VISUALS FROM THE FLOOR. INSPECT FROM ATOP EQUIPMENT, PLATFORMS, AND LADDERS AS CAN BE DONE SAFELY. IF NEEDED GET AN AERIAL LIFT.

2. PATCH ALL HOLES.

3. IF PIECES OF DUCT ARE BEYOND REPAIR, GET THE FOLLOWING INFORMATION:

A. DIAMETER

B. LENGTH

C. IF AN ELBOW PIECE, GET THE ANGLE.

D. LOCATION (BE AS SPECIFIC AS POSSIBLE.)

4. REPORT ALL REPAIRS AND DUCT REPLACEMENT NEEDED TO YOUR SUPERVISOR.

Weblink:

Old_task:

Est. Hours: 2

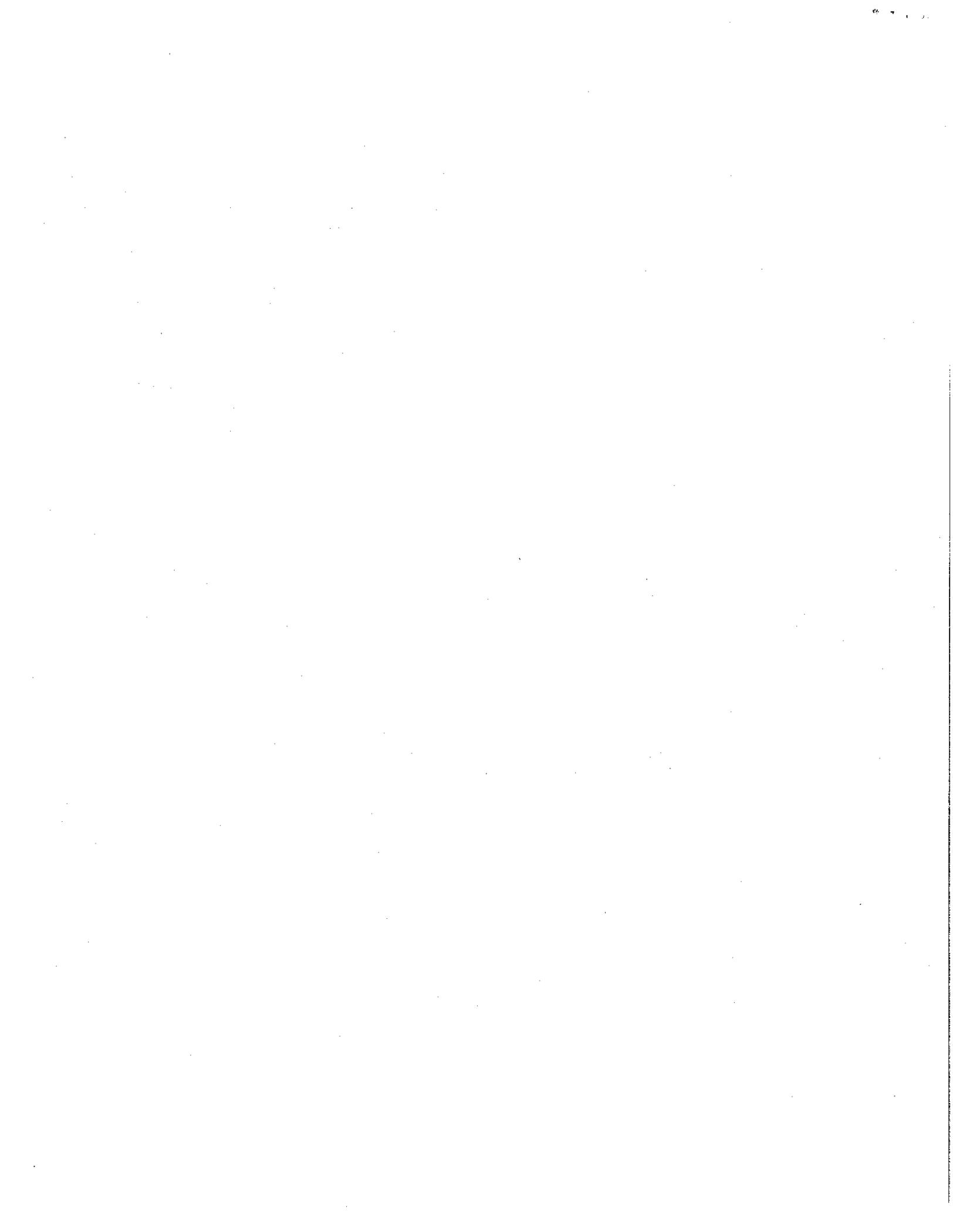
PM REVISION LOG: 7/3/07 New

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PM

Edit	Delete	Actions	Options	
Pmid: <u>5E50SC765</u>		Next PM Date: 04/01/2019		
Asset ID: <u>601415</u>				
Work Order Type: PM-INSP		Last PM Work Order Date: 03/18/2019		
PM Group:		Last PM Work Order No.: 464236		
Calendar Based		Meter Based		
Produce Every?: 2		Produce PM Every: 0		
Calendar Based Freq.: Weeks		Occurs Desc.:		
Calendar Freq Type: Shadow		Meter Type: N/A		
		Daily Average: 0		
		Last Meter Reading Entry: 0		
		Last Meter Reading Date:		
		Last PM Produced At: 0		
On Calendar?: True		Meter To-Date: 0		
Route Sequence:		Skip Mondays?: False		
Route:		Skip Tuesdays?: False		
Assign To Type: Maint Supv		Skip Wednesdays?: False		
Assign To: Maint-1st		Skip Thursdays?: False		
Perform For Type:		Skip Fridays?: True		
Perform For:		Skip Saturdays?: True		
Task No.: 0978		Skip Sundays?: True		
Brief Description: AUTOLUBE CANISTER INSPECTION				
Detailed Text: RECORD GREASE LEVELS OF THE AUTO LUBE CANISTERS ON MOTOR.				
DRIVE END _____cm				
OPPOSITE DRIVE END _____cm				
REPLACE CANISTER WHEN THEY GET TO ZERO AS NEEDED. SET NEW 125 ML CANISTERS TO 12 MONTHS.				
Weblink:		PM REVISION LOG: 1/16/19 New		
Old_task:				
Est. Hours: 0.10				



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Assets

Add	Edit	Delete	List	<<	GoTo	>>	Actions	Options
Asset ID: 601419								
Asset Description: CARTER DAY DUST COLLECTOR								
Asset Type Description:				Department: CDCSPO				
Type: A				Manufacturer:				
Criticality: EQ-A				Model No.:				
Out of Service: False				Serial No.:				
Out of Service Date:				PLC ID #:				
Weblink:				Lubrication Type:				
Comments:								
Monitor Class:								

Meter Readings

Add	Options				
Tran. ID.	Meter Type	Date Taken	Taken By	Meter Reading Reset	Meter total
No Records Found.					

PM Schedule

Add	Options	Copy PM Schedule	Learn More					
Produce Calendar Every?	Next PM Based Freq.	Date	Brief Description	Last PM Work Order Date	Last PM Work Order No.	Calendar Freq Type	Assign To	Est. Hours
GoTo	2.00 Weeks	04/02/2019	DUST-BW-LUB1:DUST COLLECTOR BI-WEEKLY LUBRICATION 1	03/19/2019	464433	Shadow	Maint-2nd	0.00
GoTo	4.00 Weeks		DUST-1M-GINSP:DUST COLLECTOR MONTHLY GENERAL INSPECTION	03/30/2019	465477	Shadow	Maint-3rd	0.00
GoTo	1.00 Weeks	04/02/2019	DUST-W-GINSP2:DUST COLLECTOR CARTER DAY GENERAL INSPECTION 2	03/26/2019	465086	Shadow	Maint-1st	0.00
GoTo	6.00 Weeks	04/13/2019	DUST-W-VIS2:DUST COLLECTOR 6-WEEK VISOLITE-2	03/02/2019	462447	Shadow	Maint-3rd	0.00
GoTo	6.00 Weeks	04/06/2019	DUCTWORK INSPECTION	02/23/2019	461785	Shadow	Maint-3rd	2.00

Related Parts

Add	Options			
Item	Descrip	Qty	Unitms	Category
No Records Found.				

Name Plate Information

Add	Options	Import Attributes
Plateid	Descrip	Value
No Records Found.		

Monitoring Points

Options	Add New Class	Delete Class
Monitor Class	Monitor Type	Upper bound
No Records Found.		

Asset Documents

Options		
COMPID	Print with WO	Description
No Records Found.		

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Pmid: 1P00UGZZQ
Asset ID: 601419

Next PM Date: 04/02/2019

Work Order Type: PM-LUBE
PM Group:

Last PM Work Order Date: 03/19/2019
Last PM Work Order No.: 464433

Calendar Based

Produce Every?: 2
Calendar Based Freq.: Weeks
Calendar Freq Type: Shadow

Meter Based

Produce PM Every: 0
Occurs Desc.:
Meter Type: TOTALS
Daily Average: 0
Last Meter Reading Entry: 0
Last Meter Reading Date:
Last PM Produced At: 0

On Calendar?: True
Route Sequence:
Route:
Assign To Type: Maint Supv
Assign To: Maint-2nd

Meter To-Date: 0
Skip Mondays?: False
Skip Tuesdays?: False
Skip Wednesdays?: False
Skip Thursdays?: False
Skip Fridays?: True
Skip Saturdays?: True
Skip Sundays?: True

Perform For Type: n/a
Perform For:
Task No.: 0319

Brief Description: DUST-BW-LUB1:DUST COLLECTOR BI-WEEKLY LUBRICATION 1
Detailed Text: 1. MAKE THE FOLLOWING LUBRICATIONS ON THE EQUIPMENT LISTED:

2. USE EP-2 OR STARPLEX-2 GREASE, UNLESS OTHERWISE INDICATED.

3. LUBRICATE THE FOLLOWING;
A) INBOARD PILLOW BLOCK BEARING.
B) OUTBOARD PILLOW BLOCK BEARING.

4. REPORT UNUSUAL CONDITIONS TO YOUR SUPERVISOR.

Weblink:
Old_task: DUST-BW-LUB1
Est. Hours: 0

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Edit	Delete	Actions	Options
Pmid: <u>1PO0UH002</u>		Next PM Date:	
Asset ID: <u>601419</u>			
Work Order Type: <u>PM-INSP</u>		Last PM Work Order Date: <u>03/30/2019</u>	
PM Group: <u>w/e</u>		Last PM Work Order No.: <u>465477</u>	
Calendar Based		Meter Based	
Produce Every?: <u>4</u>		Produce PM Every: <u>0</u>	
Calendar Based Freq.: <u>Weeks</u>		Occurs Desc.:	
Calendar Freq Type: <u>Shadow</u>		Meter Type: <u>TOTALS</u>	
		Daily Average: <u>0</u>	
		Last Meter Reading Entry: <u>0</u>	
		Last Meter Reading Date:	
		Last PM Produced At: <u>0</u>	
On Calendar?: <u>True</u>		Meter To-Date: <u>0</u>	
Route Sequence:		Skip Mondays?: <u>True</u>	
Route:		Skip Tuesdays?: <u>True</u>	
Assign To Type: <u>Maint Supv</u>		Skip Wednesdays?: <u>True</u>	
Assign To: <u>Maint-3rd</u>		Skip Thursdays?: <u>True</u>	
Perform For Type: <u>n/a</u>		Skip Fridays?: <u>True</u>	
Perform For:		Skip Saturdays?: <u>False</u>	
Task No.: <u>0321</u>		Skip Sundays?: <u>True</u>	
Brief Description: <u>DUST-1M-GINSP:DUST COLLECTOR MONTHLY GENERAL INSPECTION</u>			
Detailed Text: <u>BEFORE YOU WORK ON THIS UNIT, LOCK IT OUT !!</u>			
<p>1. PLATTCO AIR LOCK FLAPPER VALVE:</p> <p>A) CHECK AIR SUPPLY LINE FOR LEAKS. REPAIR AS NEEDED.</p> <p>B) CHECK AIR FITTINGS FOR WEAR AND BROKEN FITTINGS. REPLACE AS NEEDED.</p> <p>C) CHECK ELECTRICAL CONNECTION AND SEALTIGHT FOR DAMAGE.</p> <p>D) CHECK CYLINDER MOUNTS AND SHOULDER BOLTS FOR TIGHTNESS.</p> <p>E) CHECK BOLTS AND MOUNTS ON ACUATOR ARMS.</p> <p>F) CHECK BEARINGS FOR PROPER LUBRICATION.</p> <p>G) MANUALLY OPERATE VALVE TO ASSURE WORKING PROPERLY.</p> <p>H) CHECK ALL MOUNTING BOLTS FOR BEING TIGHT.</p> <p>I) TURN POWER POWER BACK ON AND WATCH FOR PROPER OPERATION.</p>			
<p>5. MAIN BLOWER:</p> <p>A) REMOVE INSPECTION DOOR. INSPECT THE FAN BLADE FOR WEAR, RUST OR HOLES</p> <p>B) CHECK THE BLADES FOR BUILDUP. REMOVE ALL DEBRIS FROM THE INSIDE OF THE HOUSING.</p> <p>C) INSPECT THE INLET CONE FOR RUST, HOLES, ETC.</p> <p>D) CHECK INSIDE THE HOUSING FOR WEAR, RUST, AND FOR HOLES.</p> <p>E) REINSTALL THE INSPECTION DOOR.</p>			
<p>6. DRIVE BELTS: 5VX1600 QTY-4</p> <p>A) REMOVE DRIVE GUARD</p> <p>B) INSPECT THE V-BELTS FOR WEAR, CRACKS, SIGNS OF DETERIORATION</p> <p>C) CHECK FOR PROPER TENSION. ADJUST AS REQUIRED.</p>			
<p>7. SHEAVES:</p> <p>A) CHECK BOTH SHEAVES FOR WEAR AND FOR PROPER ALIGNMENT.</p> <p>B) TIGHTEN SET SCREWS AND MOUNTING BOLTS.</p> <p>C) REINSTALL GUARD. REMOVED IN STEP 6-A.</p>			
<p>8. MOTOR: (MAIN BLOWER)</p> <p>A) CHECK MOUNTING FRAME FOR DAMAGE, CRACKS, ETC.</p> <p>B) TIGHTEN MOTOR MOUNTING BOLTS.</p> <p>C) INSPECT SEALTITE OR CONDUIT AND WIRING FOR DAMAGE.</p>			
<p>9. PILLOW BLOCK BEARINGS:</p> <p>A) CHECK BEARINGS FOR FAILURE, TIGHTEN MOUNTING BOLTS.</p> <p>B) GREASE AS REQUIRED. USE EP-2 GREASE</p>			
<p>10. MAIN BLOWER HOUSING, FRAME, AND DUCTWORK:</p> <p>A) CHECK HOUSING FOR RUST, HOLES, CRACKS AND BROKEN WELDS.</p>			

- B) FRAME: CHECK FOR CRACKS, BROKEN WELDS, AND LOOSE BOLTS.
- C) EXPANSION JOINT: CHECK FOR WEAR, HOLES, CRACKS AND DETERIORATION.
- D) DUCTWORK: INSPECT ALL DUCTWORK FOR RUST, HOLES, AND DAMAGED SUPPORTS.

11. BLOWDOWN DRIVE UNIT:

- A) CHECK OIL LEVEL. ADD EP-220 AS REQUIRED.
- B) TIGHTEN MOUNTING BOLTS.
- C) CHECK MOTOR FOR DAMAGE. TIGHTEN MOUNTING BOLTS.

12. INSIDE COMPARTMENT:

- A) OPEN THE INSPECTION DOOR LOCATED IN THE WEST SIDE.
- B) INSPECT THE CONDITION OF THE BAG OPENING. IF ANY DUST IS VISIBLE ON THE TOP OF THE BAGS, CHECK FOR HOLES AND DIRT BUILDUP.
- C) INSPECT THE THREE (3) BLOWDOWN TUBES FOR RUST, HOLES, AND SEALING OVER THE BAGS PROPERLY. INSPECT TUBE END GUIDE ROLLERS FOR WEAR.
- D) CHECK BOTH SPROCKETS FOR WEAR AND PROPER ALIGNMENT.
- E) CHECK CHAIN FOR WEAR AND PROPER TENSION.
- F) INSPECT IDLER SPROCKET FOR WEAR. INSPECT SPRING AND MOUNTING BRACKET.
- G) CLOSE INSPECTION DOOR AND SECURE.

13. OPEN SMALL INSPECTION DOOR, JUST BELOW THE HIGH PRESSURE COMPARTMENT. YOU WILL SEE ABOUT 10" OF THE BAGS.

RECORD THE CONDITION YOU SEE:

CLEAN _____ DIRTY _____ MEDIUM _____ HEAVY _____

CLOSE THE INSPECTION DOOR.

14. OPEN THE LOWER SECTION INSPECTION DOOR

- A) CHECK FOR MISSING BAGS.
- B) CHECK FOR HOLES IN THE BAGS.
- C) CHECK FOR DUST BUILDUP ON THE BAGS.

15. CHECK THE ENTIRE COLLECTOR FOR OTHER POSSIBLE PROBLEMS.

16. MAKE ANY NECESSARY REPAIRS.

17. REPORT ANY UNUSUAL CONDITIONS TO YOUR SUPERVISOR.

18. REMOVE YOUR LOCKOUTS AND RETURN ALL DISCONNECTS TO THE "ON" POSITION

Weblink:

Old_task: DUST-1M- GINSP PM REVISION LOG: 9/20/13 Replaced all Rotary Valve checks, lines 1-4, with Platco flapper valve checks.

Est. Hours: 0

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Pmid: 1PO0UH003		Next PM Date: 04/02/2019	
Asset ID: 601419			
Work Order Type: PM-INSP		Last PM Work Order Date: 03/26/2019	
PM Group:		Last PM Work Order No.: 465086	
Calendar Based		Meter Based	
Produce Every?: 1		Produce PM Every: 0	
Calendar Based Freq.: Weeks		Occurs Desc.:	
Calendar Freq Type: Shadow		Meter Type: TOTALS	
		Daily Average: 0	
		Last Meter Reading Entry: 0	
		Last Meter Reading Date:	
		Last PM Produced At: 0	
On Calendar?: True		Meter To-Date: 0	
Route Sequence:		Skip Mondays?: False	
Route:		Skip Tuesdays?: False	
Assign To Type: Maint Supv		Skip Wednesdays?: False	
Assign To: Maint-1st		Skip Thursdays?: False	
Perform For Type: n/a		Skip Fridays?: True	
Perform For:		Skip Saturdays?: True	
Task No.: 0340		Skip Sundays?: True	
Brief Description: DUST-W-GINSP2:DUST COLLECTOR CARTER DAY GENERAL INSPECTION 2			
Detailed Text: WHILE THE COLLECTOR IS RUNNING, MAKE THIS INSPECTION:			
<ol style="list-style-type: none"> 1. BLOWER MOTOR: <ol style="list-style-type: none"> A) CHECK MOTOR FOR VIBRATION. B) CHECK FOR RUNNING HOT. C) TIGHTEN MOUNTING BOLTS. D) LISTEN FOR UNUSUAL NOISE. E) CHECK FRAME FOR DAMAGE, FOR CRACKS, BROKEN WELDS AND LOOSE MOUNTING BOLTS. F) INSPECT ELECTRICAL SEALTIGHT, CONDUIT AND DISCONNECT FOR DAMAGE. 2. BEARINGS: <ol style="list-style-type: none"> A) CHECK FOR RUNNING HOT OR ROUGH. B) TIGHTEN MOUNTING BOLTS. C) CHECK FOR RECENT LUBRICATION. 3. BLOWER HOUSING AND DUCT: <ol style="list-style-type: none"> A) CHECK HOUSING FOR RUST, HOLES, BROKEN WELDS, LOOSE MOUNTING BOLTS. B) CHECK FRAME AND SUPPORTS FOR BROKEN WELDS, LOOSE MOUNTING BOLTS. C) CHECK ALL DUCT WORK FOR HOLES, RUST, ETC. 4. PRESSURE BLOWER (BLOW DOWN): <ol style="list-style-type: none"> A) CHECK BLOWER, MOTOR FOR VIBRATION. B) CHECK MOTOR FOR RUNNING HOT. C) TIGHTEN MOUNTING BOLTS. D) CHECK MOTOR MOUNTING FRAME FOR CRACKS, AND FOR BROKEN WELDS. E) INSPECT ELECTRICAL SEALTIGHT, CONDUIT AND DISCONNECT FOR DAMAGE. 5. PRESSURE BLOWER DUCT WORK: <ol style="list-style-type: none"> A) INSPECT BLOWER HOUSING FOR RUST AND FOR HOLES. B) CHECK DUCT WORK FOR RUST AND FOR HOLES. C) INSPECT (2) RUBBER EXPANSION JOINTS FOR HOLES AND FOR SIGNS OF DETERIORATION, INSPECT BAND FOR BEING TIGHT. 6. BLOW DOWN DRIVE UNIT: <ol style="list-style-type: none"> A) CHECK VIBRATION AND FOR RUNNING HOT. B) TIGHTEN MOUNTING BOLTS. C) INSPECT ELECTRICAL SEALTIGHT, CONDUIT AND DISCONNECT FOR DAMAGE. 7. INSPECT ALL ACCESS DOORS FOR DAMAGE AND FOR PROPER SEAL. CHECK THE ENTIRE CONE FOR RUST AND FOR HOLES. 			

8. DROP OUT VALVE(S):

- A) CHECK FOR LEAKS AROUND PACKING GLAND.
- B) CHECK MOTOR AND GEARBOX FOR VIBRATION, FOR UNUSUAL NOISES AND FOR LOOSE MOUNTING BOLTS.
- C) CHECK VALVE HOUSING FOR CRACKS.

9. REFUSE BAGS:

- A) CHECK AND INSURE THAT BAG IF FASTENED TO THE ROTARY VALVE DISCHARGE TUBE.
- B) IF BAGS ARE FULL, NOTIFY ENVIRONMENTAL SUPERVISOR, HE WILL HAVE THE FULL BAG REMOVED.

10. RECORD DIFFERENTIAL PRESSURE AT BASE OF COLLECTOR: _____ IWC
 INVESTIGATE AND NOTIFY SUPERVISOR IF READING IS ABOVE/BELOW NORMAL, 1.5 - 5.0 IWC.

11. REPORT ANY UNUSUAL CONDITIONS TO YOUR SUPERVISOR.]

Weblink:

DUST-W-
 Old_task: GINSP2

PM REVISION LOG: 9/28/12 Line item 10. Changed normal range from "3.0-3.5" to 2.5". Since all the bags were replaced in July Shutdown, readings have been 2.5. VJK
 5/23/14 Line item 10. Changed normal from 2.5 to 1.5-5.0 per Erik Olson's compliance numbers, Form 650. VJK

Est. Hours: 0

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Edit	Delete	Actions	Options		
Pmid: 1PO0UH004		Next PM Date: 04/13/2019			
Asset ID: 601419					
Work Order Type: PM-INSP		Last PM Work Order Date: 03/02/2019			
PM Group: w/e		Last PM Work Order No.: 462447			
Calendar Based		Meter Based			
Produce Every?: 6		Produce PM Every: 0			
Calendar Based Freq.: Weeks		Occurs Desc.:			
Calendar Freq Type: Shadow		Meter Type: TOTALS			
		Daily Average: 0			
		Last Meter Reading Entry: 0			
		Last Meter Reading Date:			
		Last PM Produced At: 0			
On Calendar?: True		Meter To-Date: 0			
Route Sequence:		Skip Mondays?: True			
Route:		Skip Tuesdays?: True			
Assign To Type: Maint Supv		Skip Wednesdays?: True			
Assign To: Maint-3rd		Skip Thursdays?: True			
Perform For Type: n/a		Skip Fridays?: True			
Perform For:		Skip Saturdays?: False			
Task No.: 0269		Skip Sundays?: True			
Brief Description: DUST-W-VIS2:DUST COLLECTOR 6-WEEK VISOLITE-2					
Detailed Text: THE PURPOSE OF THIS P.M. IS TO INSURE THAT THIS DUST COLLECTOR IS IN A-1 OPERATING CONDITION AND EMISSION FREE.					
<p>1. BEFORE YOU START VISOLITE TEST</p> <p>A) PULL DISCONNECT FOR PURGE BLOWER AND LOCK-IT-OUT.</p> <p>B) PULL DISCONNECT FOR BLOW DOWN DRIVE UNIT AND LOCK-IT-OUT.</p> <p>NOTE: BOTH DISCONNECTS ARE LOCATED ON TOP PLATFORM ON THE EAST SIDE OF CARTER DAY.</p>					
<p>2. MATERIALS:</p> <p>A) 3 LBS. OF BHA VISOLITE POWDER</p> <p>B) FUNNEL</p> <p>C) DUCT TAPE</p> <p>D) GLOVES</p> <p>E) GOGGLES</p> <p>F) OSHA APPROVED DUST MASK</p> <p>G) FLUORESCENT CORDLESS BLACK LIGHT</p>					
<p>3. TEST</p> <p>A) START THE EXHAUST FAN WITH PURGE BLOWER AND BLOW DOWN DISABLED:</p> <p>NOTE: THE FAN MUST BE RUNNING DURING THE TIME VISOLITE DIE IS BEING ADDED TO THE SYSTEM, BUT NOT THE PURGE BLOWER OR BLOW DOWN DRIVE UNIT.</p> <p>B) GO TO THE SPO WEST PLATE FEEDER. AT TOP OF STEPS ON NORTH SIDE OF THE WEST PLATE FEEDER, FIND THE INLET FRESH AIR VALVE.</p> <p>C) WEARING THE GLOVES, GOGGLES, AND DUST MASK, SLOWLY INJECT THE VISOLITE POWDER INTO THE AIR STREAM AT A STEADY RATE.</p> <p>NOTE: DO NOT DUMP THE VISOLITE INTO THE SYSTEM ALL AT ONCE.</p> <p>D) LET EXHAUST FAN RUN FOR APPROXIMATELY 15 MINUTES.</p> <p>E) SHUT DOWN EXHAUST FAN AND LOCK-IT-OUT. LEAVE PURGE BLOWER AND BLOW DOWN DRIVE UNITS LOCKED OUT. HAVE YOUR LOCKOUT VERIFIED.</p>					
<p>4. FROM THE SAFETY/SECURITY DEPARTMENT, OBTAIN A CONFINED SPACE ENTRY PERMIT, AND FILL OUT ACCORDINGLY.</p>					
<p>5. BAG HOUSE TOP SECTION</p> <p>A) ENTER THE TOP SECTION OF THE CARTER DAY.</p> <p>B) SHINE THE BLACK LIGHT DOWN EACH DUST BAG. LOOK INSIDE THE ENTIRE TUBE FOR THE PRESENCE OF ANY VISOLITE POWDER.</p> <p>C) THE APPEARANCE OF ANY VISOLITE POWDER INDICATES THAT THER IS A LEAK.</p> <p>D) REPLACE ANY BAGS WITH LEAKS IMMEDIATELY.</p> <p>E) ANY CRACKS OR SEAMS THAT ARE LEAKING MUST BE REPAIRED, i.e. CAULKED OR SEALED WITH EPOXY.</p> <p>F) CLOSE DOOR</p>					

6. BAG HOUSE BOTTOM
 - A) OPEN INSPECTION DOOR.
 - B) SHINE THE BLACK LIGHT AND CHECK FOR LEAKS.
 - C) CHECK FOR MISSING BAGS.
 - D) CHECK FOR HOLES IN BAGS.
 - E) CHECK FOR HEAVY BUILDUP ON BAGS.
 - F) CHECK FOR MISSING OR DAMAGED BAG HANGERS. REPLACE AS NEEDED.
 - G) CLOSE DOOR

7. REMOVE ALL SAFETEY LOCKS AND TURN DISCONNECTS BACK ON.

8. COMMENT ON DEBRIS AND DUST BUILDUP AROUND DUST COLLECTOR HOPPER, ETC.

9. REPORT UNUSUAL CONDITIONS TO YOUR SUPERVISOR.]

Weblink:

Old_task: DUST-W-VIS2

PM REVISION LOG:

Est. Hours: 0

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PM

Edit	Delete	Actions	Options
Pmid: <u>24H10HQWV</u>		Next PM Date: 04/06/2019	
Asset ID: <u>601419</u>			
Work Order Type: PM-INSP		Last PM Work Order Date: 02/23/2019	
PM Group: w/e		Last PM Work Order No.: 461785	
Calendar Based		Meter Based	
Produce Every?: 6		Produce PM Every: 0	
Calendar Based Freq.: Weeks		Occurs Desc.:	
Calendar Freq Type: Shadow		Meter Type: N/A	
		Daily Average: 0	
		Last Meter Reading Entry: 0	
		Last Meter Reading Date:	
		Last PM Produced At: 0	
On Calendar?: True		Meter To-Date: 0	
Route Sequence:		Skip Mondays?: True	
Route:		Skip Tuesdays?: True	
Assign To Type: Maint Supv		Skip Wednesdays?: True	
Assign To: Maint-3rd		Skip Thursdays?: True	
Perform For Type: n/a		Skip Fridays?: True	
Perform For:		Skip Saturdays?: False	
Task No.: 0809		Skip Sundays?: True	
Brief Description: DUCTWORK INSPECTION			
Detailed Text: 1. INSPECT ALL THE MAIN DUCT AND BRANCH LINE DUCTS FOR HOLES. THIS IS A HANDS ON INSPECTION. NO VISUALS FROM THE FLOOR. INSPECT FROM ATOP EQUIPMENT, PLATFORMS, AND LADDERS AS CAN BE DONE SAFELY. IF NEEDED GET AN AERIAL LIFT.			
2. PATCH ALL HOLES.			
3. IF PIECES OF DUCT ARE BEYOND REPAIR, GET THE FOLLOWING INFORMATION: A. DIAMETER B. LENGTH C. IF AN ELBOW PIECE, GET THE ANGLE. D. LOCATION (BE AS SPECIFIC AS POSSIBLE.)			
4. REPORT ALL REPAIRS AND DUCT REPLACEMENT NEEDED TO YOUR SUPERVISOR.			
Weblink:		PM REVISION LOG: 7/3/07 New	
Old_task:			
Est. Hours: 2			

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Condition Monitoring		PM Center	Dashboard			

Assets

Add	Edit	Delete	List	<<	GoTo	>>	Actions	Options
Asset ID: 124143 Asset Description: NORTH SLUDGE TANK AND PUMPS Asset Type Description: _____ Department: CDCSPO Type: A _____ Manufacturer: _____ Criticality: EQ-A _____ Model No.: _____ Out of Service: False _____ Serial No.: _____ Out of Service Date: _____ PLC ID #: _____ Weblink: _____ Comments: _____ _____ Lubrication Type: _____ _____ Monitor Class: _____								

Meter Readings

Add	Options				
Tran. ID.	Meter Type	Date Taken	Taken By	Meter Reading Reset	Meter total
No Records Found.					

PM Schedule

Add	Options	Copy PM Schedule	Learn More						
GoTo	Produce Calendar Every?	Based Freq.	Next PM Date	Brief Description	Last PM Work Order Date	Last PM Work Order No.	Calendar Freq Type	Assign To	Est. Hours
GoTo	1.00	Months	04/08/2019	4143 -M-DRVINSP:SLUDGE TANK MONTHLY PUMP DRIVE INSPECTION	03/07/2019	463120	Shadow	Maint-3rd	0.00
GoTo	6.00	Months	07/06/2019	4143/5-6M-INSP:SLUDGE TANK 6 MONTH INSPECTION	12/22/2018	455763	Shadow	Maint-3rd	0.00
GoTo	2.00	Weeks	04/13/2019	4143/5-W-PUMPSWOVER:SLUDGE TANK WEEKLY PUMP SWITCHOVER	03/30/2019	465470	Static	Maint-3rd	0.00
GoTo	2.00	Weeks	04/02/2019	4145-W-CHAIN/PUMP: WEEKLY CHAIN/PUMP	03/19/2019	464464	Shadow	Maint-1st	0.50
GoTo	1.00	Weeks	04/06/2019	4143/5-W-DRAIN : W/E DRAIN AND CLEAN	03/30/2019	465499	Static	Maint-3rd	4.35

Related Parts

Add	Options			
Item	Descrip	Qty	Unitms	Category
No Records Found.				

Name Plate Information

Add	Options	Import Attributes
Plateid	Descrip	Value
No Records Found.		

Monitoring Points

Options	Add New Class	Delete Class
Monitor Class	Monitor Type	Upper bound
No Records Found.		

Asset Documents

Options		
COMPID	Print with WO	Description
No Records Found.		

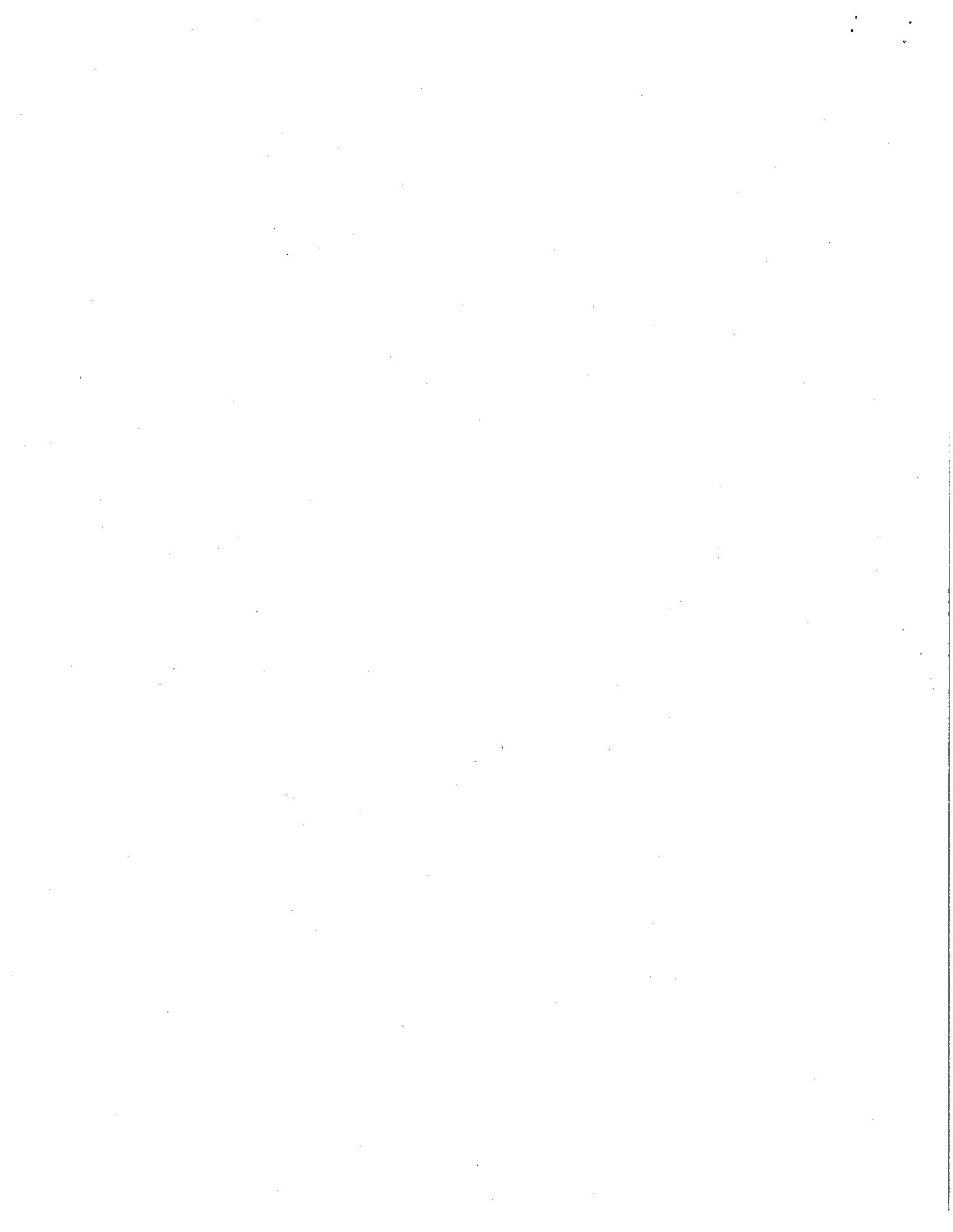
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PM

Edit	Delete	Actions	Options
Pmid: 1P00UGZRJ		Next PM Date: 04/08/2019	
Asset ID: <u>124143</u>			
Work Order Type: PM-INSP		Last PM Work Order Date: 03/07/2019	
PM Group:		Last PM Work Order No.: 463120	
Calendar Based		Meter Based	
Produce Every?: 1		Produce PM Every: 0	
Calendar Based Freq.: Months		Occurs Desc.:	
Calendar Freq Type: Shadow		Meter Type: TOTALS	
		Daily Average: 0	
		Last Meter Reading Entry: 0	
		Last Meter Reading Date:	
		Last PM Produced At: 0	
On Calendar?: True		Meter To-Date: 0	
Route Sequence:		Skip Mondays?: False	
Route:		Skip Tuesdays?: False	
Assign To Type: Maint Supv		Skip Wednesdays?: False	
Assign To: Maint-3rd		Skip Thursdays?: False	
Perform For Type: n/a		Skip Fridays?: True	
Perform For:		Skip Saturdays?: True	
Task No.: 0772		Skip Sundays?: True	
Brief Description: 4143 -M-DRVINSP:SLUDGE TANK MONTHLY PUMP DRIVE INSPECTION			
Detailed Text: BEFORE YOU WORK ON THESE PUMPS, PULL DISCONNECT ON THE PUMP YOU WANT TO WORK ON AND LOCK IT OUT !!			
EAST PUMP ___ WEST PUMP ___			
1. FOR EACH PUMP, MAKE THE FOLLOWING INSPECTION.			
A) CHECK PACKING ON PUMP. ADJUST IF REQUIRED.			
B) TIGHTEN ALL MOTOR AND PUMP MOUNTING BOLTS.			
C) INSPECT ALL PIPING FOR LEAKS AND LOOSE FITTINGS. TIGHTEN DITTINGS, IF YOU CAN.			
E) RESTORE POWER IF NEEDED.]			
Weblink:			
Old_task: 4143 -M-DRVINSP		PM REVISION LOG: 1/14/16 Updated PM for new pump assemblies. VJK	
Est. Hours: 0			



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Edit	Delete	Actions	Options
Pmid: <u>1PO0UGZRK</u>		Next PM Date: <u>07/06/2019</u>	
Asset ID: <u>124143</u>			
Work Order Type: <u>PM-INSP</u>		Last PM Work Order Date: <u>12/22/2018</u>	
PM Group: <u>w/e</u>		Last PM Work Order No.: <u>455763</u>	
Calendar Based		Meter Based	
Produce Every?: <u>6</u>		Produce PM Every: <u>0</u>	
Calendar Based Freq.: <u>Months</u>		Occurs Desc.: <u></u>	
Calendar Freq Type: <u>Shadow</u>		Meter Type: <u>TOTALS</u>	
		Daily Average: <u>0</u>	
		Last Meter Reading Entry: <u>0</u>	
		Last Meter Reading Date: <u></u>	
		Last PM Produced At: <u>0</u>	
On Calendar?: <u>True</u>		Meter To-Date: <u>0</u>	
Route Sequence: <u></u>		Skip Mondays?: <u>True</u>	
Route: <u></u>		Skip Tuesdays?: <u>True</u>	
Assign To Type: <u>Maint Supv</u>		Skip Wednesdays?: <u>True</u>	
Assign To: <u>Maint-3rd</u>		Skip Thursdays?: <u>True</u>	
Perform For Type: <u>n/a</u>		Skip Fridays?: <u>True</u>	
Perform For: <u></u>		Skip Saturdays?: <u>False</u>	
Task No.: <u>0611</u>		Skip Sundays?: <u>True</u>	
Brief Description: <u>4143/5-6M-INSP:SLUDGE TANK 6 MONTH INSPECTION</u>			
Detailed Text: <u>1. BEFORE YOU WORK ON THIS SLUDGE TANK, LOCK-OUT THE FOLLOWING EQUIPMENT AND HAVE LOCK-OUTS VERIFIED:</u>			
A) SLUDGE TANK DRAG CHAIN DRIVE UNIT.			
B) CIRCULATING PUMPS.			
C) EXHAUST BLOWER.			
2. SLUDGE TANK:			
WWT PERSONNEL TO:			
A) DRAIN TANK COMPLETELY.			
B) WASH DOWN INSIDE OF TANK AND DRAIN AGAIN.			
C) REPORT ANY UNUSUAL CONDITIONS TO MAINTENANCE.			
MAINTENANCE MECHANIC TO CHECK:			
A) CHECK WEAR RAILS & GUIDE RAILS FOR WEAR AND BROKEN WELDS.			
B) CHECK ALL BEARINGS.			
C) CHECK CHAIN & SPROCKETS FOR WEAR AND FOR BROKEN LINKS.			
D) CHECK TANKS FOR HOLES.			
E) MAKE ALL REPAIRS AS TIME PERMITS.			
3. REMOVE YOUR LOCK-OUTS AND TURN ON ALL DISCONNECTS.			
4. REPORT ANY UNUSUAL CONDITIONS TO YOUR SUPERVISOR.			
Weblink: <u></u>		PM REVISION LOG: <u></u>	
Old_task: <u>4143/5-6M-DRAIN</u>			
Est. Hours: <u>0</u>			

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PM

Edit	Delete	Actions	Options
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Pmid: 1PO0UGZRM Next PM Date: 04/13/2019
 Asset ID: 124143

Work Order Type: PM-INSP Last PM Work Order Date: 03/30/2019
 PM Group: w/e Last PM Work Order No.: 465470

Calendar Based

Produce Every?: 2
 Calendar Based Freq.: Weeks
 Calendar Freq Type: Static

Meter Based

Produce PM Every: 0
 Occurs Desc.:
 Meter Type: TOTALS
 Daily Average: 0
 Last Meter Reading Entry: 0
 Last Meter Reading Date:
 Last PM Produced At: 0

On Calendar?: True
 Route Sequence:
 Route:
 Assign To Type: Maint Supv
 Assign To: Maint-3rd
 Perform For Type: n/a
 Perform For:
 Task No.: 0689

Meter To-Date: 0
 Skip Mondays?: True
 Skip Tuesdays?: True
 Skip Wednesdays?: True
 Skip Thursdays?: True
 Skip Fridays?: True
 Skip Saturdays?: False
 Skip Sundays?: True

Brief Description: 4143/5-W-PUMPSWOVER:SLUDGE TANK WEEKLY PUMP SWITCHOVER
 Detailed Text: 1. THIS P.M. IS TO BE COMPLETED DURING THE WEEKLY DOWN SHIFT.

2. SWITCH PUMPS
INDICATE THE PUMP YOU SWITCHED FROM ____ AND TO ____
3. MAKE SURE PACKING WATER COOLANT VALVE IS TURNED ON.
4. AFTER PUMP IS SWITCHED AND ON LINE, VERIFY THAT YOU HAVE THE A MINIMUM OF 150 GPM.
5. REPORT UNUSUAL CONDITIONS TO YOUR SUPERVISOR.]

Weblink:
4143/5-W- PM REVISION LOG: 4/16/07 Deactivated - West pump only. No longer gets switched. East is a backup only.
 Old_task: PUMPSWOVER 4/2/16 Reactivated PM. Set to 2 weeks from 1 week. VJK

Est. Hours: 0



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Edit	Delete	Actions	Options
Pmid: <u>2HY1BB1VX</u>		Next PM Date: 04/02/2019	
Asset ID: <u>124143</u>			
Work Order Type: PM-INSP		Last PM Work Order Date: 03/19/2019	
PM Group:		Last PM Work Order No.: 464464	
Calendar Based		Meter Based	
Produce Every?: 2		Produce PM Every: 0	
Calendar Based Freq.: Weeks		Occurs Desc.:	
Calendar Freq Type: Shadow		Meter Type: N/A	
		Daily Average: 0	
		Last Meter Reading Entry: 0	
		Last Meter Reading Date:	
		Last PM Produced At: 0	
On Calendar?: True		Meter To-Date: 0	
Route Sequence:		Skip Mondays?: False	
Route:		Skip Tuesdays?: False	
Assign To Type: Maint Supv		Skip Wednesdays?: False	
Assign To: Maint-1st		Skip Thursdays?: False	
Perform For Type: n/a		Skip Fridays?: True	
Perform For:		Skip Saturdays?: True	
Task No.: 0612		Skip Sundays?: True	
Brief Description: 4145-W-CHAIN/PUMP: WEEKLY CHAIN/PUMP			
Detailed Text: WHILE THE SLUDGE TANK IS IN OPERATION, MAKE THE FOLLOWING INSPECTIONS.			
<ol style="list-style-type: none"> 1. SLUDGE TANK: INSPECT ENTIRE SLUDGE TANK FOR LEAKS. 2. DRAG CHAIN: <ol style="list-style-type: none"> A) INSPECT DRAG CHAIN FOR WEAR. B) CHECK FOR DAMAGE, BENT, LOOSE OR MISSING ANGLES. C) CHECK SPROCKETS FOR WEAR. D) CHECK TAKE-UP BEARINGS. 3. CHAIN DRIVE: <ol style="list-style-type: none"> A) CHECK MOTOR AND GEARBOX FOR VIBRATION AND FOR RUNNING HOT. B) TIGHTEN MOUNTING BOLTS. C) VISUALLY INSPECT CHAIN AND SPROCKETS FOR WEAR. D) LISTEN FOR UNUSUAL NOISES. 4. PUMPS: <ol style="list-style-type: none"> A) FOR EACH MOTOR AND PUMP THAT ARE RUNNING, CHECK FOR VIBRATION AND FOR RUNNING HOT. B) CHECK EACH PUMP FOR LEAKING PACKING. ADJUST PACKING IF REQUIRED. C) CHECK ALL PIPING AND FITTINGS FOR CRACKS, LOOSE FITTINGS & LEAKS. 5. MAKE ALL NECESSARY REPAIRS. 6. REPORT ANY UNUSUAL CONDITIONS TO YOUR SUPERVISOR.] 			
Weblink:		PM REVISION LOG: 10/28/08 New	
Old_task:			
Est. Hours: 0.50			

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PM

Edit	Delete	Actions	Options	
Pmid: <u>2RQ0X8DJZ</u>		Next PM Date: 04/06/2019		
Asset ID: <u>124143</u>				
Work Order Type: PM-INSP		Last PM Work Order Date: 03/30/2019		
PM Group: w/e		Last PM Work Order No.: 465499		
Calendar Based		Meter Based		
Produce Every?: 1		Produce PM Every: 0		
Calendar Based Freq.: Weeks		Occurs Desc.:		
Calendar Freq Type: Static		Meter Type: N/A		
		Daily Average: 0		
		Last Meter Reading Entry: 0		
		Last Meter Reading Date:		
		Last PM Produced At: 0		
On Calendar?: True		Meter To-Date: 0		
Route Sequence:		Skip Mondays?: True		
Route:		Skip Tuesdays?: True		
Assign To Type: Maint Supv		Skip Wednesdays?: True		
Assign To: Maint-3rd		Skip Thursdays?: True		
Perform For Type: n/a		Skip Fridays?: True		
Perform For:		Skip Saturdays?: False		
Task No.:		Skip Sundays?: True		
Brief Description: 4143/5-W-DRAIN : W/E DRAIN AND CLEAN				
Detailed Text: 1. BEFORE YOU WORK ON THIS SLUDGE TANK, LOCK-OUT THE FOLLOWING EQUIPMENT AND HAVE LOCK-OUTS VERIFIED:				
A) SLUDGE TANK DRAG CHAIN DRIVE UNIT.				
B) CIRCULATING PUMPS.				
C) EXHAUST BLOWER.				
2. SLUDGE TANK: BOTH THE SUCTION AND SETTLING SIDE				
A) DRAIN TANK COMPLETELY.				
B) WASH DOWN INSIDE OF TANK AND DRAIN AGAIN.				
C) REPORT ANY UNUSUAL CONDITIONS TO MAINTENANCE.				
3. REMOVE YOUR LOCK-OUTS AND TURN ON ALL DISCONNECTS.				
4. REPORT ANY UNUSUAL CONDITIONS TO YOUR SUPERVISOR.				
Weblink:		PM REVISION LOG: 10/14/09 New		
Old_task:				
Est. Hours: 4.35				

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Assets

Add	Edit	Delete	List	<<	GoTo	>>	Actions	Options
Asset ID: 124146								
Asset Description: NORTH SCHNEIBLE DUST COLLECTOR								
Asset Type Description:					Department: CDCSPO			
Type: A					Manufacturer:			
Criticality: EQ-A					Model No.:			
Out of Service: False					Serial No.:			
Out of Service Date:					PLC ID #:			
Weblink:								
Comments:								
Lubrication Type:								
Monitor Class:								

Meter Readings

Add	Options				
Tran. ID.	Meter Type	Date Taken	Taken By	Meter Reading Reset	Meter total
No Records Found.					

PM Schedule

Add	Options	Copy PM Schedule	Learn More				
Produce Every?	Calendar Based Freq.	Next PM Date	Brief Description	Last PM Work Order Date	Last PM Calendar Work Order No. Type	Assign To	Est. Hours
GoTo	4.00 Weeks	04/20/2019	4146/7-M-OPINSP: SCHNEIBLE DUST COLLECTOR MONTHLY OPERATOR INSPECTION	03/23/2019	464767 Shadow	Maint-3rd	0.00
GoTo	1.00 Weeks		4146/7-W-DIFFPRESS: SCHNEIBLE DUST COLLECTOR WEEKLY DIFFERENTIAL PRESSURE READINGS	03/28/2019	465336 Shadow	Maint-1st	0.00
GoTo	4.00 Weeks	04/20/2019	DUCTWORK INSPECTION	03/23/2019	464796 Shadow	Maint-3rd	4.00
GoTo	12.00 Months	03/15/2020	SPRING SAND PROPERTIES INVESTIGATION	03/15/2019	463975 Static	Sand Lab Tech	0.00
GoTo	12.00 Months	10/15/2019	FALL SAND PROPERTIES INVESTIGATION	10/15/2018	448812 Static	Sand Lab Tech	0.00

Related Parts

Add	Options			
Item	Descrip	Qty	Unitms	Category
No Records Found.				

Name Plate Information

Add	Options	Import Attributes
Plateid	Descrip	Value
No Records Found.		

Monitoring Points

Options	Add New Class	Delete Class
Monitor Class	Monitor Type	Upper bound
No Records Found.		

Asset Documents

Options		
COMPID	Print with WO	Description
No Records Found.		

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Edit	Delete	Actions	Options
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Pmid: 1PO0UGZRQ

Next PM Date: 04/20/2019

Asset ID: 124146

Work Order Type: PM-INSP

Last PM Work Order Date: 03/23/2019

PM Group: w/e

Last PM Work Order No.: 464767

Calendar Based

Produce Every?: 4
 Calendar Based Freq.: Weeks
 Calendar Freq Type: Shadow

Meter Based

Produce PM Every: 0
 Occurs Desc.:
 Meter Type: TOTALS
 Daily Average: 0
 Last Meter Reading Entry: 0
 Last Meter Reading Date:
 Last PM Produced At: 0

On Calendar?: True

Route Sequence:

Route:

Assign To Type: Maint Supv

Assign To: Maint-3rd

Perform For Type: n/a

Perform For:

Task No.: 0613

Meter To-Date: 0

Skip Mondays?: True

Skip Tuesdays?: True

Skip Wednesdays?: True

Skip Thursdays?: True

Skip Fridays?: True

Skip Saturdays?: False

Skip Sundays?: True

Brief Description: 4146/7-M-OPINSP: SCHNEIBLE DUST COLLECTOR MONTHLY OPERATOR INSPECTION

Detailed Text: NOTE: IF YOU MUST ENTER CONE, A CONFINED SPACE ENTRY PERMIT IS REQUIRED.

BEFORE WORKING ON THIS DUST COLLECTOR, LOCK IT OUT!!!
 FOUR AND ONE HALF (4 1/2) HOURS BEFORE START OF CLEANING.

1. SHUT DOWN THE EXHAUSTER, AND LOCK IT OUT.
2. SHUT OFF THE CIRCULATING PUMPS, AND LOCK THEM OUT.
3. LEAVE THE DRAG CHAIN RUNNING FOR AT LEAST FOUR (4) HOURS.
4. REMOVE YOUR PUMP LOCKOUTS. RUN THE PUMPS FOR 1/2 HOUR.
5. SHUT PUMPS OFF, LOCK OUT, AND BEGIN TO CLEAN THE INSIDE OF COLLECTOR.
- *** SCHNEIBLE CONES: START WITH THE TOP SECTION AND COMPLETELY WASH DOWN THE CONES.
6. RECORD THE SLUDGE BUILDUP, IN INCHES, BEFORE AND AFTER CLEANING.
- *** AFTER WASHING DOWN EACH COMPARTMENT, INSPECT THE INSIDE OF CONE FOR DAMAGE, WEAR, RUST AND PAINT CHIPPING.
7. LEAVE DRAG CHAIN ON. INSPECT AND CLEAN THE DRAIN LINE AND THE TROUGH TO THE SLUDGE TANK.
8. REPORT UNUSUAL CONDITIONS TO YOUR SUPERVISOR.

Weblink:

Old_task: 4146/7-M-OPINSP

PM REVISION LOG:

Est. Hours: 0

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PM

Edit	Delete	Actions	Options
Pmid: <u>1PO0UGZRS</u>		Next PM Date:	
Asset ID: <u>124146</u>			
Work Order Type: <u>PM-INSP</u>		Last PM Work Order Date: <u>03/28/2019</u>	
PM Group:		Last PM Work Order No.: <u>465336</u>	
Calendar Based		Meter Based	
Produce Every?: <u>1</u>		Produce PM Every: <u>0</u>	
Calendar Based Freq.: <u>Weeks</u>		Occurs Desc.:	
Calendar Freq Type: <u>Shadow</u>		Meter Type: <u>TOTALS</u>	
		Daily Average: <u>0</u>	
		Last Meter Reading Entry: <u>0</u>	
		Last Meter Reading Date:	
		Last PM Produced At: <u>0</u>	
On Calendar?: <u>True</u>		Meter To-Date: <u>0</u>	
Route Sequence:		Skip Mondays?: <u>False</u>	
Route:		Skip Tuesdays?: <u>False</u>	
Assign To Type: <u>Maint Supv</u>		Skip Wednesdays?: <u>False</u>	
Assign To: <u>Maint-1st</u>		Skip Thursdays?: <u>False</u>	
Perform For Type: <u>n/a</u>		Skip Fridays?: <u>True</u>	
Perform For:		Skip Saturdays?: <u>True</u>	
Task No.: <u>0690</u>		Skip Sundays?: <u>True</u>	
Brief Description: <u>4146/7-W-DIFFPRESS: SCHNEIBLE DUST COLLECTOR WEEKLY DIFFERENTIAL PRESSURE READINGS</u>			
Detailed Text: <u>1. TOOLS NEEDED: ADJUSTABLE WRENCH, FLASHLIGHT, AND AIR HOSE W/GUN.</u>			
<u>2. RECORD PRESSURE READING FROM METER AT ACCESS PLATFORM TO SECOND LEVEL OF DUST COLLECTOR BEFORE YOU START P.M. _____</u>			
<u>3. DISCONNECT LINES AND BLOW AIR THROUGH EACH LINE. INSPECT PRESSURE VALVE FOR DIRT BUILD-UP:</u>			
<u>4. PUT BOTH LINES BACK ON RECORD READING AGAIN. _____</u>			
<u>5. RECORD WATER FLOW (GPM) FROM THE SAND SYSTEM PANELVIEW:</u>			
FLOW _____ TIME _____			
<u>6. REPORT ANY PROBLEMS TO YOUR SUPERVISOR.</u>			
<u>NORMAL DIFFERENTIAL PRESSURE READING (> 7 in) NORMAL FLOWRATE (> 150 gpm)</u>			
Weblink:		4146/7-W-DIFFPRESS	
Old_task:		PM REVISION LOG: 10/16/09 Changed "Assign To" from WWT to Maint-1st.	
		6/19/13 Added additional information on where to get readings. VJK	
		11/3/16 Added normal diff press and flowrate. VJK	
Est. Hours: <u>0</u>			

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PM

Edit	Delete	Actions	Options
Pmid: 2591F9SL9		Next PM Date: 04/20/2019	
Asset ID: 124146			
Work Order Type: PM-INSP		Last PM Work Order Date: 03/23/2019	
PM Group: w/e		Last PM Work Order No.: 464796	
Calendar Based		Meter Based	
Produce Every?: 4		Produce PM Every: 0	
Calendar Based Freq.: Weeks		Occurs Desc.:	
Calendar Freq Type: Shadow		Meter Type: N/A	
		Daily Average: 0	
		Last Meter Reading Entry: 0	
		Last Meter Reading Date:	
		Last PM Produced At: 0	
On Calendar?: True		Meter To-Date: 0	
Route Sequence:		Skip Mondays?: True	
Route:		Skip Tuesdays?: True	
Assign To Type: Maint Supv		Skip Wednesdays?: True	
Assign To: Maint-3rd		Skip Thursdays?: True	
Perform For Type: n/a		Skip Fridays?: True	
Perform For:		Skip Saturdays?: False	
Task No.: 0809		Skip Sundays?: True	
Brief Description: DUCTWORK INSPECTION			
Detailed Text: 1. INSPECT ALL THE MAIN DUCT AND BRANCH LINE DUCTS FOR HOLES. THIS IS A HANDS ON INSPECTION. NO VISUALS FROM THE FLOOR. INSPECT FROM ATOP EQUIPMENT, PLATFORMS, AND LADDERS AS CAN BE DONE SAFELY. IF NEEDED GET AN AERIAL LIFT.			
2. PATCH ALL HOLES.			
3. IF PIECES OF DUCT ARE BEYOND REPAIR, GET THE FOLLOWING INFORMATION: A. DIAMETER B. LENGTH C. IF AN ELBOW PIECE, GET THE ANGLE. D. LOCATION (BE AS SPECIFIC AS POSSIBLE.)			
4. REPORT ALL REPAIRS AND DUCT REPLACEMENT NEEDED TO YOUR SUPERVISOR.			
5. INSPECT ENTIRE DUCTWORK FOR BUILDUP AND CLEAN AS REQUIRED, REPORT TO YOU SUPERVISOR. DUCTWORK SHOULD HAVE MINIMAL BUILDUP OF <1" TO BE CONSIDERED CLEAN, THIS INCLUDES THE INLET DUCT AREA AS THE DUCT ENTERS THE BOTTOM OF THE COLLECTOR.			
Weblink:		PM REVISION LOG: 7/31/07 New	
Old_task:		10/15/07 B.L. Added Item 5. Inlet duct at Base of Collector was found to be 50% plugged and contributed to a loss of flow at the blending drum. 4/7/09 Changed PM frequency from 6wks to 4wks.	
Est. Hours: 4			

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PM

Edit	Delete	Actions	Options
Pmid: <u>56S0QYJRU</u>		Next PM Date: 03/15/2020	
Asset ID: <u>124146</u>			
Work Order Type: PM-INSP		Last PM Work Order Date: 03/15/2019	
PM Group:		Last PM Work Order No.: 463975	
Calendar Based		Meter Based	
Produce Every?: 12		Produce PM Every: 0	
Calendar Based Freq.: Months		Occurs Desc.:	
Calendar Freq Type: Static		Meter Type: N/A	
		Daily Average: 0	
		Last Meter Reading Entry: 0	
		Last Meter Reading Date:	
		Last PM Produced At: 0	
On Calendar?: True		Meter To-Date: 0	
Route Sequence:		Skip Mondays?: False	
Route:		Skip Tuesdays?: False	
Assign To Type: Ops Supv		Skip Wednesdays?: False	
Assign To: Sand Lab Tech		Skip Thursdays?: False	
Perform For Type:		Skip Fridays?: False	
Perform For:		Skip Saturdays?: False	
Task No.:		Skip Sundays?: False	
Brief Description: SPRING SAND PROPERTIES INVESTIGATION			
Detailed Text: Investigate sand properties to see if damper needs to be OPENED.			
Continue to check sand properties regularly until it is time to change the damper setting.			
When time comes to change the damper setting contact maintenance to make the change.			
Turn PM in once the damper setting has been changed.			
Weblink:		PM REVISION LOG: 4/28/18 New	
Old_task:			
Est. Hours: 0			

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PM

Edit	Delete	Actions	Options		
Pmid: <u>56S0RCJN7</u>			Next PM Date: 10/15/2019		
Asset ID: <u>124146</u>					
Work Order Type: PM-INSP			Last PM Work Order Date: 10/15/2018		
PM Group:			Last PM Work Order No.: 448812		
Calendar Based			Meter Based		
Produce Every?: 12			Produce PM Every: 0		
Calendar Based Freq.: Months			Occurs Desc.:		
Calendar Freq Type: Static			Meter Type: N/A		
			Daily Average: 0		
			Last Meter Reading Entry: 0		
			Last Meter Reading Date:		
			Last PM Produced At: 0		
On Calendar?: True			Meter To-Date: 0		
Route Sequence:			Skip Mondays?: False		
Route:			Skip Tuesdays?: False		
Assign To Type: Ops Supv			Skip Wednesdays?: False		
Assign To: Sand Lab Tech			Skip Thursdays?: False		
Perform For Type:			Skip Fridays?: False		
Perform For:			Skip Saturdays?: False		
Task No.:			Skip Sundays?: False		
Brief Description: FALL SAND PROPERTIES INVESTIGATION					
Detailed Text: Investigate sand properties to see if damper needs to be CLOSED.					
Continue to check sand properties regularly until it is time to change the damper setting.					
When time comes to change the damper setting contact maintenance to make the change.					
Turn PM in once the damper setting has been changed.					
Weblink:			PM REVISION LOG: 4/28/18		
Old_task:					
Est. Hours: 0					

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Assets

Add	Edit	Delete	List	<<	GoTo	>>	Actions	Options
Asset ID: 124142								
Asset Description: NORTH DUST COLLECTOR BLOWER								
Asset Type Description:				Department: CDCSPO				
Type: A				Manufacturer:				
Criticality: EQ-A				Model No.:				
Out of Service: False				Serial No.:				
Out of Service Date:				PLC ID #:				
Weblink:								
Comments:								
Monitor Class:				Lubrication Type:				

Meter Readings

Add	Options					
Tran. ID.	Meter Type	Date Taken	Taken By	Meter Reading	Reset	Meter total
No Records Found.						

PM Schedule

Add	Options	Copy PM Schedule	Learn More					
Produce Every?	Calendar Based Freq.	Next PM Date	Brief Description	Last PM Work Order Date	Last PM Work Order No.	Calendar Freq Type	Assign To	Est. Hours
GoTo	2.00 Months	05/18/2019	4142/4-2M-CLEAN:DUST COLLECTOR BLOWER 2 MONTH CLEAN	03/16/2019	464027	Shadow	Maint-3rd	0.00
GoTo	13.00 Weeks	06/01/2019	4142/4-M-STACKCLEAN:DUST COLLECTOR BLOWER 3-MONTH EXHAUST STACK STAND PIPE CLEANING	03/02/2019	462439	Shadow	Maint-3rd	0.00
GoTo	1.00 Weeks	04/03/2019	4142/4-W-INSP:DUST COLLECTOR BLOWER WEEKLY INSPECTION	03/27/2019	465196	Shadow	Maint-2nd	0.00
GoTo	6.00 Months		4160V-6M-INFRARED:4160 VOLT EQUIPMENT INFRARED INSPECTION	01/24/2019	458653	Shadow	Maint-3rd	0.25
GoTo	26.00 Weeks		SCHNEIBLE DUST COLLECTOR MOTOR LUBE	07/26/2018	440463	Shadow	Maint-3rd	0.25
GoTo	2.00 Weeks	04/04/2019	AUTOLUBE CANISTER INSPECTION	03/21/2019	464716	Shadow	Maint-3rd	0.10

Related Parts

Add	Options			
Item	Descrip	Qty	Units	Category
GoTo	633.311.7079 - MOTOR, , 300 HP/8120G/1170 RPM		1.00	ea motor

Name Plate Information

Add	Options	Import Attributes
Plateid	Descrip	Value
No Records Found.		

Monitoring Points

Options	Add New Class	Delete Class	
Monitor Class	Monitor Type	Upper bound	
GoTo	Motor Temps	Bearing A	0.00
GoTo	Motor Temps	Bearing A	0.00
GoTo	Motor Temps	Bearing B	0.00
GoTo	Motor Temps	Bearing B	0.00

Asset Documents

Options		
COMPID	Print with WO	Description
No Records Found.		

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PM

Edit	Delete	Actions	Options
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Pmid: 1PO0UGZRD Next PM Date: 05/18/2019
 Asset ID: 124142

Work Order Type: PM-INSP Last PM Work Order Date: 03/16/2019
 PM Group: w/e Last PM Work Order No.: 464027

Calendar Based

Produce Every?: 2
 Calendar Based Freq.: Months
 Calendar Freq Type: Shadow

Meter Based

Produce PM Every: 0
 Occurs Desc.:
 Meter Type: TOTALS
 Daily Average: 0
 Last Meter Reading Entry: 0
 Last Meter Reading Date:
 Last PM Produced At: 0

On Calendar?: True
 Route Sequence:
 Route:
 Assign To Type: Maint Supv
 Assign To: Maint-3rd
 Perform For Type: n/a
 Perform For:
 Task No.: 0620

Meter To-Date: 0
 Skip Mondays?: True
 Skip Tuesdays?: True
 Skip Wednesdays?: True
 Skip Thursdays?: True
 Skip Fridays?: True
 Skip Saturdays?: False
 Skip Sundays?: True

Brief Description: 4142/4-2M-CLEAN:DUST COLLECTOR BLOWER 2 MONTH CLEAN
 Detailed Text: BEFORE WORKING ON THIS BLOWER LOCK-IT-OUT AND HAVE YOUR LOCK-OUT VERIFIED.

1. BLOW DOWN MOTOR AND GUARD WITH AIR, REMOVE COUPLING AND BEARING GUARD
 - A) INSPECT CONDITION OF COUPLING, TIGHTEN ALL MOUNTING BOLTS. LUBRICATE AS REQUIRED.
2. BEARINGS:
 - A) INSPECT FOR BAD PILLOWBLOCK BEARINGS, BLOWN SEALS ETC.
 - B) TIGHTEN SET SCREWS AND MOUNTING BOLTS.
 - C) GREASE BEARING IF REQUIRED, USE EP-2.
3. IMPELLER: OPEN INSPECTION DOOR
 - A) INSPECT THE CONDITION OF IMPELLER BLADES, LOOK FOR WEAR, HOLES AND SAND BUILDUP.
 - B) CLEAN ANY SAND BUILDUP OFF BLADES WITH A WIRE BRUSH.
 - C) CHECK IMPELLER FOR BEING TIGHT ON SHAFT, TIGHTEN MOUNTING BOLTS.
 - D) INSPECT CONDITION OF IMPELLER HOUSING FOR WEAR, RUST AND HOLES.
 - E) CHECK AND BALANCE FAN.
 - F) REINSTALL DOOR.
4. CHECK FRAME FOR DAMAGE, CRACKS AND LOOSE BOLTS.
5. REPORT ANY UNUSUAL CONDITIONS TO YOUR SUPERVISOR.]

Weblink:
 Old_task: 4142/4-2M-CLEAN
 Est. Hours: 0

PM REVISION LOG:

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PM

Edit	Delete	Actions	Options
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Pmid: 1PO0UGZRF Next PM Date: 06/01/2019
 Asset ID: 124142

Work Order Type: PM-INSP
 PM Group: w/e

Last PM Work Order Date: 03/02/2019
 Last PM Work Order No.: 462439

Calendar Based

Produce Every?: 13
 Calendar Based Freq.: Weeks
 Calendar Freq Type: Shadow

Meter Based

Produce PM Every: 0
 Occurs Desc.:
 Meter Type: TOTALS
 Daily Average: 0
 Last Meter Reading Entry: 0
 Last Meter Reading Date:
 Last PM Produced At: 0

On Calendar?: True
 Route Sequence:
 Route:
 Assign To Type: Maint Supv
 Assign To: Maint-3rd

Meter To-Date: 0
 Skip Mondays?: True
 Skip Tuesdays?: True
 Skip Wednesdays?: True
 Skip Thursdays?: True
 Skip Fridays?: True
 Skip Saturdays?: False
 Skip Sundays?: True

Perform For Type: n/a
 Perform For:
 Task No.: 0731

Brief Description: 4142/4-M-STACKCLEAN:DUST COLLECTOR BLOWER 3-MONTH EXHAUST STACK STAND PIPE CLEANING
 Detailed Text: 1. OBTAIN A CONFINED SPACE ENTRY PERMIT.

2. LOCK OUT EXHAUST BLOWER.
3. REMOVE ACCESS DOOR.
4. SHOVEL OUT MUD AND RINSE CLEAN.
5. ROD OUT PIPE TO SUMP.
6. CLEAN OUT SUMP.
7. REINSTALL ACCESS DOOR.
8. REMOVE LOCK-OUT.
9. DISPOSE OF WASTE PROPERLY.
10. REPORT ON AMOUNT OF MUD AND ANY PROBLEMS FOUND.

Weblink:
 Old_task: 4142/4-M-STACKCLEAN
 Est. Hours: 0

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Edit	Delete	Actions	Options		
Pmid: 1P00UGZRH		Next PM Date: 04/03/2019			
Asset ID: 124142					
Work Order Type: PM-INSP		Last PM Work Order Date: 03/27/2019			
PM Group:		Last PM Work Order No.: 465196			
Calendar Based			Meter Based		
Produce Every?: 1			Produce PM Every: 0		
Calendar Based Freq.: Weeks			Occurs Desc.:		
Calendar Freq Type: Shadow			Meter Type: TOTALS		
			Daily Average: 0		
			Last Meter Reading Entry: 0		
			Last Meter Reading Date:		
			Last PM Produced At: 0		
On Calendar?: True			Meter To-Date: 0		
Route Sequence:			Skip Mondays?: False		
Route:			Skip Tuesdays?: False		
Assign To Type: Maint Supv			Skip Wednesdays?: False		
Assign To: Maint-2nd			Skip Thursdays?: False		
Perform For Type: n/a			Skip Fridays?: True		
Perform For:			Skip Saturdays?: True		
Task No.: 0619			Skip Sundays?: True		
Brief Description: 4142/4-W-INSP:DUST COLLECTOR BLOWER WEEKLY INSPECTION					
Detailed Text: WHILE THE BLOWER IS RUNNING, MAKE THE FOLLOWING INSPECTIONS.					
1. MOTOR:					
A) CHECK MOTOR FOR VIBRATION & FOR RUNNING HOT. TIGHTEN MOUNTING BOLTS.					
B) CHECK MOTOR FOR ROUGH OR BAD BEARINGS.					
C) CHECK FOR DAMAGE OR LOOSE SLINGER.					
2. PILLOW BLOCK BEARING:					
A) VISUALLY INSPECT FOR BAD PILLOW BLOCK BEARINGS.					
B) DO BEARINGS SHOW RECENT EVIDENCE OF BEING GREASED?					
3. BLOWER HOUSING & DUCT WORK:					
A) INSPECT BLOWER HOUSING FOR DAMAGE, RUST & HOLES.					
B) CHECK FRAME FOR CRACKS & BROKEN WELDS.					
C) INSPECT ALL DUCT PIPES TO COLLECTOR AND MACHINE FOR DAMAGE AND RUST HOLES.					
4. SUMP PUMP AND TANK:					
A) INSPECT SUMP PUMP TANK FOR LEAKS.					
B) INSPECT PUMP FOR DAMAGE, FLOAT HOSE & POWER CORD.					
5. REPORT ANY UNUSUAL CONDITIONS TO YOUR SUPERVISOR.]					
Weblink:			PM REVISION LOG:		
Old_task: 4142/4-W-INSP					
Est. Hours: 0					

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Edit	Delete	Actions	Options
Pmid: <u>3HN0LVY7M</u>		Next PM Date:	
Asset ID: <u>124142</u>			
Work Order Type: <u>PM-PREDICTIV</u>		Last PM Work Order Date: <u>01/24/2019</u>	
PM Group: <u>JR</u>		Last PM Work Order No.: <u>458653</u>	
Calendar Based		Meter Based	
Produce Every?: <u>6</u>		Produce PM Every: <u>0</u>	
Calendar Based Freq.: <u>Months</u>		Occurs Desc.:	
Calendar Freq Type: <u>Shadow</u>		Meter Type: <u>N/A</u>	
		Daily Average: <u>0</u>	
		Last Meter Reading Entry: <u>0</u>	
		Last Meter Reading Date:	
		Last PM Produced At: <u>0</u>	
On Calendar?: <u>True</u>		Meter To-Date: <u>0</u>	
Route Sequence:		Skip Mondays?: <u>False</u>	
Route:		Skip Tuesdays?: <u>False</u>	
Assign To Type: <u>Maint Supv</u>		Skip Wednesdays?: <u>False</u>	
Assign To: <u>Maint-3rd</u>		Skip Thursdays?: <u>False</u>	
Perform For Type: <u>n/a</u>		Skip Fridays?: <u>True</u>	
Perform For:		Skip Saturdays?: <u>True</u>	
Task No.: <u>0027</u>		Skip Sundays?: <u>True</u>	
Brief Description: <u>4160V-6M-INFRARED:4160 VOLT EQUIPMENT INFRARED INSPECTION</u>			
Detailed Text: <u>1. WHILE EACH PIECE OF EQUIPMENT IS IN OPERATION, TAKE THE FOLLOWING THERMAL READINGS.</u>			
2. EXERCISE CAUTION WHILE PERFORMING THIS P.M. POWER MUST REMAIN ON.			
3. OPEN DISCONNECT PANEL.			
4. SCAN WIRE CONNECTIONS, FUSES AND FUSE BLOCKS, AND MOTOR STARTER AND CONNECTIONS. MOTOR STARTER COIL MAY READ 200 DEGREES OR HIGHER. THIS IS NOT UNUSUAL. WIRE CONNECTIONS ON CONTACT BLOCKS, COILS, AND TRANSFORMERS MAY ALSO APPEAR HOT, COMPARE SIMILAR CONNECTIONS AND LOOK FOR HOT SPOTS AMONG THEM. (i.e. WIRE CONNECTIONS ON THE SAME FUSE BLOCK SHOULD BE ABOUT THE SAME TEMPERATURE.)			
5. FOR ANY HOT SPOTS FOUND, TAKE PICTURE AND CREATE A PM WORK ORDER FOR REPAIRS.			
6. FOR SAFETY, A MONITOR WILL ACCOMPANY THE PERSON PERFORMING THIS PM:			
DISC. LOCATED ON W. WALL.			
300 HP MTR			
Weblink:			
Old_task:		PM REVISION LOG: <u>4/28/12 Started back up in Emaint.</u>	
Est. Hours: <u>0.25</u>			

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Edit	Delete	Actions	Options
Pmid: <u>45S0TMJX6</u>		Next PM Date:	
Asset ID: <u>124142</u>			
Work Order Type: <u>PM-LUBE</u>		Last PM Work Order Date: <u>07/26/2018</u>	
PM Group:		Last PM Work Order No.: <u>440463</u>	
Calendar Based		Meter Based	
Produce Every?: <u>26</u>		Produce PM Every: <u>0</u>	
Calendar Based Freq.: <u>Weeks</u>		Occurs Desc.:	
Calendar Freq Type: <u>Shadow</u>		Meter Type: <u>N/A</u>	
		Daily Average: <u>0</u>	
		Last Meter Reading Entry: <u>0</u>	
		Last Meter Reading Date:	
		Last PM Produced At: <u>0</u>	
On Calendar?: <u>False</u>		Meter To-Date: <u>0</u>	
Route Sequence:		Skip Mondays?: <u>False</u>	
Route:		Skip Tuesdays?: <u>False</u>	
Assign To Type: <u>Maint Supv</u>		Skip Wednesdays?: <u>False</u>	
Assign To: <u>Maint-3rd</u>		Skip Thursdays?: <u>False</u>	
Perform For Type: <u>n/a</u>		Skip Fridays?: <u>True</u>	
Perform For:		Skip Saturdays?: <u>True</u>	
Task No.: <u>0945</u>		Skip Sundays?: <u>True</u>	
Brief Description: <u>SCHNEIBLE DUST COLLECTOR MOTOR LUBE</u>			
Detailed Text: <u>WHILE THE FAN IS RUNNING, LUBRICATE THE MOTOR BEARINGS WITH THE METERED HAND GREASE GUN USING CHEVRON SR1 GREASE.</u>			
BEARING LUBRICATION STEPS			
1. CLEANSE THE AREA AROUND THE GREASE NIPPLES WITH CLEAN COTTON FABRIC.			
2. WITH THE MOTOR RUNNING, ADD GREASE WITH A MANUAL GREASE GUN UNTIL THE LUBRICANT COMMENCES TO BE EXPELLED FROM THE BLEEDER OUTLET, OR UNTIL THE QUANTITY OF GREASE RECOMMENDED IN HAS BEEN APPLIED.			
3. ALLOW THE MOTOR TO RUN LONG ENOUGH TO EJECT ALL EXCESS GREASE.			
GREASE QUANTITY - 1 PUMP = 1.25 GRAMS			
1. OUTPUT SHAFT SIDE MOTOR BEARING - 60 GRAMS, 48 PUMP			
2. FAN SIDE MOTOR BEARING - 45 GRAMS, 36 PUMPS			
RECORD ANY UNUSUAL CONDITION.			
Weblink:		PM REVISION LOG: <u>9/11/14 New 2014-39</u>	
Old_task:		<u>1/17/19 Drop PM. Auto Lube canisters installed on motor. VJK</u>	
Est. Hours: <u>0.25</u>			

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PM

Edit	Delete	Actions	Options
Pmid: <u>5E50S4X90</u>		Next PM Date: 04/04/2019	
Asset ID: <u>124142</u>			
Work Order Type: PM-INSP		Last PM Work Order Date: 03/21/2019	
PM Group:		Last PM Work Order No.: 464716	
Calendar Based		Meter Based	
Produce Every?: 2		Produce PM Every: 0	
Calendar Based Freq.: Weeks		Occurs Desc.:	
Calendar Freq Type: Shadow		Meter Type: N/A	
		Daily Average: 0	
		Last Meter Reading Entry: 0	
		Last Meter Reading Date:	
		Last PM Produced At: 0	
On Calendar?: True		Meter To-Date: 0	
Route Sequence:		Skip Mondays?: False	
Route:		Skip Tuesdays?: False	
Assign To Type: Maint Supv		Skip Wednesdays?: False	
Assign To: Maint-3rd		Skip Thursdays?: False	
Perform For Type:		Skip Fridays?: True	
Perform For:		Skip Saturdays?: True	
Task No.: 0978		Skip Sundays?: True	
Brief Description: AUTOLUBE CANISTER INSPECTION			
Detailed Text: RECORD GREASE LEVELS OF THE AUTO LUBE CANISTERS ON MOTOR.			
DRIVE END _____ cm			
OPPOSITE DRIVE END _____ cm			
REPLACE CANISTER WHEN THEY GET TO ZERO AS NEEDED. SET NEW CANISTERS TO 12 MONTHS.			
NOTE: DE 250 ML CANISTER , ODE 125 ML CANISTER			
Weblink:		PM REVISION LOG: 1/16/19 New	
Old_task:			
Est. Hours: 0.10			

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Assets

Add	Edit	Delete	List	<<	GoTo	>>	Actions	Options
Asset ID: 124145 Asset Description: SOUTH SLUDGE TANK AND PUMPS Asset Type Description: _____ Type: A Criticality: EQ-A Out of Service: False Out of Service Date: _____ Weblink: _____ Comments: _____ Monitor Class: _____								
					Department: CDCSPO Manufacturer: _____ Model No.: _____ Serial No.: _____ PLC ID #: _____ Lubrication Type: Starplex 2			

Meter Readings

Add	Options					
Tran. ID.	Meter Type	Date Taken	Taken By	Meter Reading	Reset	Meter total
No Records Found.						

PM Schedule

Add	Options	Copy PM Schedule	Learn More					
Produce Calendar Every?	Calendar Based Freq.	Next PM Date	Brief Description	Last PM Work Order Date	Last PM Work Order No.	Calendar Freq Type	Assign To	Est. Hours
GoTo	6.00 Months	05/25/2019	4143/5-6M-DRAIN:SLUDGE TANK 6 MONTH DRAIN INSPECTION	11/24/2018	452775	Shadow	Maint-3rd	0.00
GoTo	2.00 Weeks	04/13/2019	4143/5-W-PUMPSWOVER:SLUDGE TANK WEEKLY PUMP SWITCHOVER	03/30/2019	465471	Static	Maint-3rd	0.00
GoTo	1.00 Months		4143/5-M-CPLNG:SLUDGE TANK MONTHLY PUMP COUPLING INSPECTION	04/15/2010	149738	Shadow	Maint-3rd	0.00
GoTo	1.00 Weeks		4145-W-CHAIN/PUMP:124145 WEEKLY CHAIN/PUMP	03/28/2019	465335	Shadow	Maint-1st	0.20
GoTo	1.00 Months	04/04/2019	4145-M-DRVINSP:SLUDGE TANK MONTHLY PUMP DRIVE INSPECTION	03/04/2019	462727	Shadow	Maint-3rd	1.00

Related Parts

Add	Options			
Item	Descrip	Qty	Unitms	Category
No Records Found.				

Name Plate Information

Add	Options	Import Attributes
Plateid	Descrip	Value
No Records Found.		

Monitoring Points

Options	Add New Class	Delete Class
Monitor Class	Monitor Type	Upper bound
No Records Found.		

Asset Documents

Options		
COMPID	Print with WO	Description
No Records Found.		

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PM

Edit	Delete	Actions	Options
Pmid: <u>1PO0UGZRL</u>		Next PM Date: 05/25/2019	
Asset ID: <u>124145</u>			
Work Order Type: PM-INSP		Last PM Work Order Date: 11/24/2018	
PM Group: <u>w/e</u>		Last PM Work Order No.: 452775	
Calendar Based		Meter Based	
Produce Every?: 6		Produce PM Every: 0	
Calendar Based Freq.: Months		Occurs Desc.:	
Calendar Freq Type: Shadow		Meter Type: TOTALS	
		Daily Average: 0	
		Last Meter Reading Entry: 0	
		Last Meter Reading Date:	
		Last PM Produced At: 0	
On Calendar?: True		Meter To-Date: 0	
Route Sequence:		Skip Mondays?: True	
Route:		Skip Tuesdays?: True	
Assign To Type: Maint Supv		Skip Wednesdays?: True	
Assign To: Maint-3rd		Skip Thursdays?: True	
Perform For Type: n/a		Skip Fridays?: True	
Perform For:		Skip Saturdays?: False	
Task No.: 0611		Skip Sundays?: True	
Brief Description: 4143/5-6M-DRAIN:SLUDGE TANK 6 MONTH DRAIN INSPECTION			
Detailed Text: 1. BEFORE YOU WORK ON THIS SLUDGE TANK, LOCK-OUT THE FOLLOWING EQUIPMENT AND HAVE LOCK-OUTS VERIFIED:			
A) SLUDGE TANK DRAG CHAIN DRIVE UNIT.			
B) CIRCULATING PUMPS.			
C) EXHAUST BLOWER.			
2. SLUDGE TANK:			
A) DRAIN TANK COMPLETELY.			
B) WASH DOWN INSIDE OF TANK AND DRAIN AGAIN.			
C) CHECK WEAR RAILS & GUIDE RAILS FOR WEAR AND BROKEN WELDS.			
D) CHECK ALL BEARINGS.			
E) CHECK CHAIN & SPROCKETS FOR WEAR AND FOR BROKEN LINKS.			
F) CHECK TANKS FOR HOLES.			
G) MAKE ALL REPAIRS AS TIME PERMITS.			
3. REMOVE YOUR LOCK-OUTS AND TURN ON ALL DISCONNECTS.			
4. REPORT ANY UNUSUAL CONDITIONS TO YOUR SUPERVISOR.			
Weblink:			
Old_task: 4143/5-6M-DRAIN		PM REVISION LOG: 5/2/2016 Changed assigned to from 1st to 3rd. VJK	
Est. Hours: 0			

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PM

Edit	Delete	Actions	Options
Pmid: <u>1PO0UGZRN</u>		Next PM Date: 04/13/2019	
Asset ID: <u>124145</u>			
Work Order Type: PM-INSP		Last PM Work Order Date: 03/30/2019	
PM Group: w/e		Last PM Work Order No.: 465471	
Calendar Based		Meter Based	
Produce Every?: 2		Produce PM Every: 0	
Calendar Based Freq.: Weeks		Occurs Desc.:	
Calendar Freq Type: Static		Meter Type: TOTALS	
		Daily Average: 0	
		Last Meter Reading Entry: 0	
		Last Meter Reading Date:	
		Last PM Produced At: 0	
On Calendar?: True		Meter To-Date: 0	
Route Sequence:		Skip Mondays?: True	
Route:		Skip Tuesdays?: True	
Assign To Type: Maint Supv		Skip Wednesdays?: True	
Assign To: Maint-3rd		Skip Thursdays?: True	
Perform For Type: n/a		Skip Fridays?: True	
Perform For:		Skip Saturdays?: False	
Task No.: 0689		Skip Sundays?: True	
Brief Description: 4143/5-W-PUMPSWOVER:SLUDGE TANK WEEKLY PUMP SWITCHOVER			
Detailed Text: 1. THIS P.M. IS TO BE COMPLETED DURING THE WEEKLY DOWN SHIFT.			
2. SWITCH PUMPS INDICATE THE PUMP YOU SWITCHED FROM ____ AND TO ____			
3. MAKE SURE PACKING WATER COOLANT VALVE IS TURNED ON.			
4. AFTER PUMP IS SWITCHED AND ON LINE, VERIFY THAT YOU HAVE THE A MINIMUM OF 150 GPM.			
5. REPORT UNUSUAL CONDITIONS TO YOUR SUPERVISOR.			
Weblink:		PM REVISION LOG: 4/16/07 - Deactivated - South pump only. No longer gets switched.	
4143/5-W-		North is a backup only.	
Old_task: PUMPSWOVER		4/2/16 Reactivated PM. Set to 2 weeks from 4 weeks. VJK	
Est. Hours: 0			

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PM

Edit	Delete	Actions	Options
Pmid: <u>1PO0UGZRO</u>		Next PM Date:	
Asset ID: <u>124145</u>			
Work Order Type: <u>PM-INSP</u>		Last PM Work Order Date: <u>04/15/2010</u>	
PM Group:		Last PM Work Order No.: <u>149738</u>	
Calendar Based		Meter Based	
Produce Every?: <u>1</u>		Produce PM Every: <u>0</u>	
Calendar Based Freq.: <u>Months</u>		Occurs Desc.:	
Calendar Freq Type: <u>Shadow</u>		Meter Type: <u>TOTALS</u>	
		Daily Average: <u>0</u>	
		Last Meter Reading Entry: <u>0</u>	
		Last Meter Reading Date:	
		Last PM Produced At: <u>0</u>	
On Calendar?: <u>True</u>		Meter To-Date: <u>0</u>	
Route Sequence:		Skip Mondays?: <u>False</u>	
Route:		Skip Tuesdays?: <u>False</u>	
Assign To Type: <u>Maint Supv</u>		Skip Wednesdays?: <u>False</u>	
Assign To: <u>Maint-3rd</u>		Skip Thursdays?: <u>False</u>	
Perform For Type: <u>n/a</u>		Skip Fridays?: <u>True</u>	
Perform For:		Skip Saturdays?: <u>True</u>	
Task No.: <u>0618</u>		Skip Sundays?: <u>True</u>	
Brief Description: <u>4143/5-M-CPLNG:SLUDGE TANK MONTHLY PUMP COUPLING INSPECTION</u>			
Detailed Text: <u>BEFORE YOU WORK ON THESE PUMPS, PULL DISCONNECT ON THE PUMP YOU WANT TO WORK ON AND LOCK IT OUT !!</u>			
<p>_____ NORTH PUMP - Pump has been removed at this time.</p> <p>_____ MIDDLE PUMP</p> <p>_____ SOUTH PUMP</p>			
<p>1. FOR EACH PUMP, MAKE THE FOLLOWING INSPECTION.</p> <p>A) FOR PUMPS WITH DIRECT DRIVE COUPLING - REMOVE THE COUPLING GUARD AND CHECK CONDITION OF COUPLING. REPAIR AS REQUIRED. CHECK COUPLING ALIGNMENT FROM PUMP TO MOTOR. TIGHTEN MOUNTING BOLTS.</p> <p>B) FOR BELT DRIVEN PUMPS - REMOVE GUARD AND CHECK CONDITION OF BELTS. REPLACE AS REQUIRED. CHECK SHEAVE ALIGNMENT AND WEAR. TIGHTEN MOUNTING BOLTS.</p> <p>C) CHECK PACKING ON PUMP. ADJUST IF REQUIRED.</p> <p>D) TIGHTEN ALL MOTOR AND PUMP MOUNTING BOLTS.</p> <p>E) INSPECT ALL PIPING FOR LEAKS AND LOOSE FITTINGS. TIGHTEN FITTINGS, IF YOU CAN.</p> <p>F) REINSTALL COUPLING GUARD.</p> <p>G) RESTORE POWER IF NEEDED.</p>			
Weblink:			
Old_task: <u>4143/5-M-CPLNG</u>		PM REVISION LOG: <u>4/15/2010 Obsolete - New pumps are belt driven. SLeifker See new pump drive inspection pm.</u>	
Est. Hours: <u>0</u>			

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Edit	Delete	Actions	Options
Pmid: <u>1PO0UGZRP</u>		Next PM Date:	
Asset ID: <u>124145</u>			
Work Order Type: <u>PM-INSP</u>		Last PM Work Order Date: <u>03/28/2019</u>	
PM Group: _____		Last PM Work Order No.: <u>465335</u>	
Calendar Based		Meter Based	
Produce Every?: <u>1</u>		Produce PM Every: <u>0</u>	
Calendar Based Freq.: <u>Weeks</u>		Occurs Desc.: _____	
Calendar Freq Type: <u>Shadow</u>		Meter Type: <u>TOTALS</u>	
		Daily Average: <u>0</u>	
		Last Meter Reading Entry: <u>0</u>	
		Last Meter Reading Date: _____	
		Last PM Produced At: <u>0</u>	
On Calendar?: <u>True</u>		Meter To-Date: <u>0</u>	
Route Sequence: _____		Skip Mondays?: <u>False</u>	
Route: _____		Skip Tuesdays?: <u>False</u>	
Assign To Type: <u>Maint Supv</u>		Skip Wednesdays?: <u>False</u>	
Assign To: <u>Maint-1st</u>		Skip Thursdays?: <u>False</u>	
Perform For Type: <u>n/a</u>		Skip Fridays?: <u>True</u>	
Perform For: _____		Skip Saturdays?: <u>True</u>	
Task No.: <u>0612</u>		Skip Sundays?: <u>True</u>	
Brief Description: <u>4145-W-CHAIN/PUMP:124145 WEEKLY CHAIN/PUMP</u>			
Detailed Text: <u>WHILE THE SLUDGE TANK IS IN OPERATION, MAKE THE FOLLOWING INSPECTIONS.</u>			
<ol style="list-style-type: none"> 1. SLUDGE TANK: INSPECT ENTIRE SLUDGE TANK FOR LEAKS. 2. DRAG CHAIN: <ol style="list-style-type: none"> A) INSPECT DRAG CHAIN FOR WEAR. B) CHECK FOR DAMAGE, BENT, LOOSE OR MISSING ANGLES. C) CHECK SPROCKETS FOR WEAR. D) CHECK TAKE-UP BEARINGS. 3. CHAIN DRIVE: <ol style="list-style-type: none"> A) CHECK MOTOR AND GEARBOX FOR VIBRATION AND FOR RUNNING HOT. B) TIGHTEN MOUNTING BOLTS. C) VISUALLY INSPECT CHAIN AND SPROCKETS FOR WEAR. D) LISTEN FOR UNUSUAL NOISES. 4. PUMPS: WHICH PUMP IN RUNNING? NORTH _____ SOUTH _____ <ol style="list-style-type: none"> A) FOR EACH MOTOR AND PUMP THAT ARE RUNNING, CHECK FOR VIBRATION AND FOR RUNNING HOT. B) CHECK EACH PUMP FOR LEAKING PACKING. ADJUST PACKING IF REQUIRED. C) CHECK ALL PIPING AND FITTINGS FOR CRACKS, LOOSE FITTINGS & LEAKS. 5. MAKE ALL NECESSARY REPAIRS. 6. REPORT ANY UNUSUAL CONDITIONS TO YOUR SUPERVISOR.] 			
Weblink:			
Old_task: <u>4145-W-CHAIN/PUMP</u>		PM REVISION LOG: <u>10/28/08 Changed from WWT to Maint-1st pm.</u>	
Est. Hours: <u>0.20</u>			

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PM

Edit	Delete	Actions	Options
Pmid: <u>2WV0RKSMX</u>		Next PM Date: <u>04/04/2019</u>	
Asset ID: <u>124145</u>			
Work Order Type: <u>PM-INSP</u>		Last PM Work Order Date: <u>03/04/2019</u>	
PM Group:		Last PM Work Order No.: <u>462727</u>	
Calendar Based		Meter Based	
Produce Every?: <u>1</u>		Produce PM Every: <u>0</u>	
Calendar Based Freq.: <u>Months</u>		Occurs Desc.:	
Calendar Freq Type: <u>Shadow</u>		Meter Type: <u>N/A</u>	
		Daily Average: <u>0</u>	
		Last Meter Reading Entry: <u>0</u>	
		Last Meter Reading Date:	
		Last PM Produced At: <u>0</u>	
On Calendar?: <u>False</u>		Meter To-Date: <u>0</u>	
Route Sequence:		Skip Mondays?: <u>False</u>	
Route:		Skip Tuesdays?: <u>False</u>	
Assign To Type: <u>Maint Supv</u>		Skip Wednesdays?: <u>False</u>	
Assign To: <u>Maint-3rd</u>		Skip Thursdays?: <u>False</u>	
Perform For Type: <u>n/a</u>		Skip Fridays?: <u>True</u>	
Perform For:		Skip Saturdays?: <u>True</u>	
Task No.: <u>0772</u>		Skip Sundays?: <u>True</u>	
Brief Description: <u>4145-M-DRVINSP:SLUDGE TANK MONTHLY PUMP DRIVE INSPECTION</u>			
Detailed Text: <u>BEFORE YOU WORK ON THESE PUMPS, PULL DISCONNECT ON THE PUMP YOU WANT TO WORK ON AND LOCK IT OUT !!</u>			
NORTH PUMP _____ SOUTH PUMP _____			
1. FOR EACH PUMP, MAKE THE FOLLOWING INSPECTION.			
A) REMOVE THE BELT GUARD.			
B) CHECK CONDITION OF SHEAVES AND BELT. REPLACE AS REQUIRED.			
C) CHECK SHEAVE ALIGNMENT FROM PUMP TO MOTOR. TIGHTEN MOUNTING BOLTS.			
D) CHECK PACKING ON PUMP. ADJUST IF REQUIRED.			
E) TIGHTEN ALL MOTOR AND PUMP MOUNTING BOLTS.			
F) INSPECT ALL PIPING FOR LEAKS AND LOOSE FITTINGS. TIGHTEN FITTINGS, IF YOU CAN.			
G) REINSTALL BELT GUARD.			
H) RESTORE POWER IF NEEDED.			
Weblink:		PM REVISION LOG: <u>4/15/2010 New</u>	
Old_task:			
Est. Hours: <u>1</u>			

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Assets

Add	Edit	Delete	List	<<	GoTo	>>	Actions	Options
Asset ID: 124147								
Asset Description: SOUTH SCHNEIBLE DUST COLLECTOR								
Asset Type Description:					Department: CDCSPO			
Type: A					Manufacturer:			
Criticality: EQ-A					Model No.:			
Out of Service: False					Serial No.:			
Out of Service Date:					PLC ID #:			
Weblink:					Lubrication Type:			
Comments:								
Monitor Class:								

Meter Readings

Add	Options							
Tran. ID.	Meter Type	Date Taken	Taken By	Meter Reading	Reset	Meter total		
No Records Found.								

PM Schedule

Add	Options	Copy PM Schedule	Learn More							
	Produce Every?	Calendar Based Freq.	Next PM Date	Brief Description	Last PM Work Order Date	Last PM Calendar Work Order No.	Calendar Freq. Type	Assign To	Est. Hours	
GoTo	4.00	Weeks	04/06/2019	4146/7-M-OPINSP: SCHNEIBLE DUST COLLECTOR MONTHLY OPERATOR INSPECTION	03/09/2019	463261	Shadow	Maint-3rd	1.41	
GoTo	1.00	Weeks		4146/7-W-DIFFPRESS: SCHNEIBLE DUST COLLECTOR WEEKLY DIFFERENTIAL PRESSURE READINGS	03/28/2019	465337	Shadow	Maint-1st	0.00	
GoTo	6.00	Weeks	04/13/2019	DUCTWORK INSPECTION	02/23/2019	461788	Shadow	Maint-3rd	4.00	

Related Parts

Add	Options							
Item	Descrip	Qty	Unitms	Category				
No Records Found.								

Name Plate Information

Add	Options	Import Attributes						
Plateid	Descrip	Value						
No Records Found.								

Monitoring Points

Options	Add New Class	Delete Class						
Monitor Class	Monitor Type	Upper bound						
No Records Found.								

Asset Documents

Options								
COMPID	Print with WO	Description						
No Records Found.								

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Edit	Delete	Actions	Options
Pmid: <u>1PO0UGZRR</u>		Next PM Date: <u>04/06/2019</u>	
Asset ID: <u>124147</u>			
Work Order Type: <u>PM-INSP</u>		Last PM Work Order Date: <u>03/09/2019</u>	
PM Group: <u>w/e</u>		Last PM Work Order No.: <u>463261</u>	
Calendar Based		Meter Based	
Produce Every?: <u>4</u>		Produce PM Every: <u>0</u>	
Calendar Based Freq.: <u>Weeks</u>		Occurs Desc.: _____	
Calendar Freq Type: <u>Shadow</u>		Meter Type: <u>TOTALS</u>	
		Daily Average: <u>0</u>	
		Last Meter Reading Entry: <u>0</u>	
		Last Meter Reading Date: _____	
		Last PM Produced At: <u>0</u>	
On Calendar?: <u>True</u>		Meter To-Date: <u>0</u>	
Route Sequence: _____		Skip Mondays?: <u>True</u>	
Route: _____		Skip Tuesdays?: <u>True</u>	
Assign To Type: <u>Maint Supv</u>		Skip Wednesdays?: <u>True</u>	
Assign To: <u>Maint-3rd</u>		Skip Thursdays?: <u>True</u>	
Perform For Type: <u>n/a</u>		Skip Fridays?: <u>True</u>	
Perform For: _____		Skip Saturdays?: <u>False</u>	
Task No.: <u>0613</u>		Skip Sundays?: <u>True</u>	
Brief Description: <u>41467-M-OPINSP: SCHNEIBLE DUST COLLECTOR MONTHLY OPERATOR INSPECTION</u>			
Detailed Text: <u>NOTE: IF YOU MUST ENTER CONE, A CONFINED SPACE ENTRY PERMIT IS REQUIRED.</u>			
<p>BEFORE WORKING ON THIS DUST COLLECTOR, LOCK IT OUT!!! FOUR AND ONE HALF (4 1/2) HOURS BEFORE START OF CLEANING.</p> <ol style="list-style-type: none"> 1. SHUT DOWN THE EXHAUSTER, AND LOCK IT OUT. 2. SHUT OFF THE CIRCULATING PUMPS, AND LOCK THEM OUT. 3. LEAVE THE DRAG CHAIN RUNNING FOR AT LEAST FOUR (4) HOURS. 4. REMOVE YOUR PUMP LOCKOUTS. RUN THE PUMPS FOR 1/2 HOUR. 5. SHUT PUMPS OFF, LOCK OUT, AND BEGIN TO CLEAN THE INSIDE OF COLLECTOR. <p>*** SCHNEIBLE CONES: START WITH THE TOP SECTION AND COMPLETELY WASH DOWN THE CONES.</p> <ol style="list-style-type: none"> 6. RECORD THE SLUDGE BUILDUP, IN INCHES, BEFORE AND AFTER CLEANING. <p>*** AFTER WASHING DOWN EACH COMPARTMENT, INSPECT THE INSIDE OF CONE FOR DAMAGE, WEAR, RUST AND PAINT CHIPPING.</p> <ol style="list-style-type: none"> 7. LEAVE DRAG CHAIN ON. INSPECT AND CLEAN THE DRAIN LINE AND THE TROUGH TO THE SLUDGE TANK. 8. REPORT UNUSUAL CONDITIONS TO YOUR SUPERVISOR.] 			
Weblink: _____		PM REVISION LOG: _____	
Old_task: <u>41467-M-OPINSP</u>			
Est. Hours: <u>1.41</u>			

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PM

Edit	Delete	Actions	Options
Pmid: <u>1PO0UGZRT</u>		Next PM Date:	
Asset ID: <u>124147</u>			
Work Order Type: <u>PM-INSP</u>		Last PM Work Order Date: <u>03/28/2019</u>	
PM Group:		Last PM Work Order No.: <u>465337</u>	
Calendar Based		Meter Based	
Produce Every?: <u>1</u>		Produce PM Every: <u>0</u>	
Calendar Based Freq.: <u>Weeks</u>		Occurs Desc.:	
Calendar Freq Type: <u>Shadow</u>		Meter Type: <u>TOTALS</u>	
		Daily Average: <u>0</u>	
		Last Meter Reading Entry: <u>0</u>	
		Last Meter Reading Date:	
		Last PM Produced At: <u>0</u>	
On Calendar?: <u>True</u>		Meter To-Date: <u>0</u>	
Route Sequence:		Skip Mondays?: <u>False</u>	
Route:		Skip Tuesdays?: <u>False</u>	
Assign To Type: <u>Maint Supv</u>		Skip Wednesdays?: <u>False</u>	
Assign To: <u>Maint-1st</u>		Skip Thursdays?: <u>False</u>	
Perform For Type: <u>n/a</u>		Skip Fridays?: <u>True</u>	
Perform For:		Skip Saturdays?: <u>True</u>	
Task No.: <u>0690</u>		Skip Sundays?: <u>True</u>	
Brief Description: <u>4146/7-W-DIFFPRESS: SCHNEIBLE DUST COLLECTOR WEEKLY DIFFERENTIAL PRESSURE READINGS</u>			
Detailed Text: <u>1. TOOLS NEEDED: ADJUSTABLE WRENCH, FLASHLIGHT, AND AIR HOSE W/GUN.</u>			
<u>2. RECORD PRESSURE READING FROM METER AT N-E BASE OF DUST COLLECTOR BEFORE YOU START P.M.</u>			
<u>3. DISCONNECT LINES AND BLOW AIR THROUGH EACH LINE. INSPECT PRESSURE VALVE FOR DIRT BUILD-UP.</u>			
<u>4. PUT BOTH LINES BACK ON . . . RECORD READING AGAIN AT METER. _____</u>			
<u>5. RECORD WATER FLOW (GPM) FROM THE SAND SYSTEM PANELVIEW:</u>			
FLOW _____ TIME _____			
<u>6. REPORT ANY PROBLEMS TO YOUR SUPERVISOR.</u>			
<u>NORMAL DIFFERENTIAL PRESSURE READING (> 7 in) NORMAL FLOWRATE (> 150 gpm)</u>			
Weblink:		PM REVISION LOG: <u>10/16/09 Changed "Assign To" from WWT to Maint-1st.</u>	
Old_task: <u>4146/7-W-DIFFPRESS</u>		<u>6/11/13 Added additional information on where to get readings. VJK</u>	
		<u>11/3/16 Added normal diff press and flowrate readings. VJK</u>	
Est. Hours: <u>0</u>			

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PM

Edit	Delete	Actions	Options
Pmid: <u>2591F9KZX</u>		Next PM Date: 04/13/2019	
Asset ID: <u>124147</u>			
Work Order Type: PM-INSP		Last PM Work Order Date: 02/23/2019	
PM Group: w/e		Last PM Work Order No.: 461788	
Calendar Based		Meter Based	
Produce Every?: 6		Produce PM Every: 0	
Calendar Based Freq.: Weeks		Occurs Desc.:	
Calendar Freq Type: Shadow		Meter Type: N/A	
		Daily Average: 0	
		Last Meter Reading Entry: 0	
		Last Meter Reading Date:	
		Last PM Produced At: 0	
On Calendar?: True		Meter To-Date: 0	
Route Sequence:		Skip Mondays?: True	
Route:		Skip Tuesdays?: True	
Assign To Type: Maint Supv		Skip Wednesdays?: True	
Assign To: Maint-3rd		Skip Thursdays?: True	
Perform For Type: n/a		Skip Fridays?: True	
Perform For:		Skip Saturdays?: False	
Task No.: 0809		Skip Sundays?: True	
Brief Description: DUCTWORK INSPECTION			
Detailed Text: 1. INSPECT ALL THE MAIN DUCT AND BRANCH LINE DUCTS FOR HOLES. THIS IS A HANDS ON INSPECTION. NO VISUALS FROM THE FLOOR. INSPECT FROM ATOP EQUIPMENT, PLATFORMS, AND LADDERS AS CAN BE DONE SAFELY. IF NEEDED GET AN AERIAL LIFT.			
2. PATCH ALL HOLES.			
3. IF PIECES OF DUCT ARE BEYOND REPAIR, GET THE FOLLOWING INFORMATION:			
A. DIAMETER			
B. LENGTH			
C. IF AN ELBOW PIECE, GET THE ANGLE.			
D. LOCATION (BE AS SPECIFIC AS POSSIBLE.)			
4. REPORT ALL REPAIRS AND DUCT REPLACEMENT NEEDED TO YOUR SUPERVISOR.			
Weblink:		PM REVISION LOG: 7/31/07 New	
Old_task:			
Est. Hours: 4			



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Assets

Add	Edit	Delete	List	<<	GoTo	>>	Actions	Options
Asset ID: 124144 Asset Description: SOUTH DUST COLLECTOR BLOWER Asset Type Description: Type: A Criticality: EQ-A Out of Service: False Out of Service Date: Weblink: Comments: Monitor Class:								
Department: CDCSPO Manufacturer: Model No.: Serial No.: PLC ID #: Lubrication Type:								

Meter Readings

Add	Options				
Tran. ID.	Meter Type	Date Taken	Taken By	Meter Reading Reset	Meter total
No Records Found.					

PM Schedule

Add	Options	Copy PM Schedule	Learn More						
GoTo	Produce Every?	Calendar Based Freq.	Next PM Date	Brief Description	Last PM Work Order Date	Last PM Work Order No.	Calendar Freq Type	Assign To	Est. Hours
GoTo	2.00	Months	05/18/2019	4142/4-2M-CLEAN:DUST COLLECTOR BLOWER 2 MONTH CLEAN	03/16/2019	464028	Shadow	Maint-3rd	0.00
GoTo	13.00	Weeks	05/18/2019	4142/4-M-STACKCLEAN:DUST COLLECTOR BLOWER 3-MONTH EXHAUST STACK STAND PIPE CLEANING	02/16/2019	461054	Shadow	Maint-3rd	0.00
GoTo	1.00	Weeks	04/03/2019	4142/4-W-INSP:DUST COLLECTOR BLOWER WEEKLY INSPECTION	03/27/2019	465197	Shadow	Maint-2nd	0.00
GoTo	6.00	Months		4160V-6M-INFRARED:4160 VOLT EQUIPMENT INFRARED INSPECTION	01/24/2019	458654	Shadow	Maint-3rd	0.25
GoTo	26.00	Weeks		SCHNEIBLE DUST COLLECTOR MOTOR LUBE	08/06/2018	441346	Shadow	Maint-3rd	0.25
GoTo	2.00	Weeks	04/04/2019	AUTOLUBE CANISTER INSPECTION	03/21/2019	464717	Shadow	Maint-3rd	0.10

Related Parts

Add	Options			
Item	Descrip	Qty	Units	Category
GoTo 633.311.7079 - MOTOR, , 300 HP/8120G/1170 RPM	MOTOR, , 300 HP/8120G/1170 RPM	1.00	ea	motor

Name Plate Information

Add	Options	Import Attributes
Plateid	Descrip	Value
No Records Found.		

Monitoring Points

Options	Add New Class	Delete Class
Monitor Class	Monitor Type	Upper bound
GoTo Motor Temps	Bearing A	0.00
GoTo Motor Temps	Bearing A	0.00
GoTo Motor Temps	Bearing B	0.00
GoTo Motor Temps	Bearing B	0.00

Asset Documents

Options	
COMPID	Print with WO Description
No Records Found.	

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PM

Edit	Delete	Actions	Options
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Pmid: 1P00UGZRE Next PM Date: 05/18/2019
 Asset ID: 124144

Work Order Type: PM-INSP Last PM Work Order Date: 03/16/2019
 PM Group: w/e Last PM Work Order No.: 464028

Calendar Based

Produce Every?: 2
 Calendar Based Freq.: Months
 Calendar Freq Type: Shadow

Meter Based

Produce PM Every: 0
 Occurs Desc.:
 Meter Type: TOTALS
 Daily Average: 0
 Last Meter Reading Entry: 0
 Last Meter Reading Date:
 Last PM Produced At: 0

On Calendar?: True
 Route Sequence:
 Route:
 Assign To Type: Maint Supv
 Assign To: Maint-3rd
 Perform For Type: n/a
 Perform For:
 Task No.: 0620

Meter To-Date: 0
 Skip Mondays?: True
 Skip Tuesdays?: True
 Skip Wednesdays?: True
 Skip Thursdays?: True
 Skip Fridays?: True
 Skip Saturdays?: False
 Skip Sundays?: True

Brief Description: 4142/4-2M-CLEAN:DUST COLLECTOR BLOWER 2 MONTH CLEAN
 Detailed Text: BEFORE WORKING ON THIS BLOWER LOCK-IT-OUT AND HAVE YOUR LOCK-OUT VERIFIED.

1. BLOW DOWN MOTOR AND GUARD WITH AIR, REMOVE COUPLING AND BEARING GUARD
 - A) INSPECT CONDITION OF COUPLING, TIGHTEN ALL MOUNTING BOLTS. LUBRICATE AS REQUIRED.
2. BEARINGS:
 - A) INSPECT FOR BAD PILLOWBLOCK BEARINGS, BLOWN SEALS ETC.
 - B) TIGHTEN SET SCREWS AND MOUNTING BOLTS.
 - C) GREASE BEARING IF REQUIRED, USE EP-2.
3. IMPELLER: OPEN INSPECTION DOOR
 - A) INSPECT THE CONDITION OF IMPELLER BLADES, LOOK FOR WEAR, HOLES AND SAND BUILDUP.
 - B) CLEAN ANY SAND BUILDUP OFF BLADES WITH A WIRE BRUSH.
 - C) CHECK IMPELLER FOR BEING TIGHT ON SHAFT, TIGHTEN MOUNTING BOLTS.
 - D) INSPECT CONDITION OF IMPELLER HOUSING FOR WEAR, RUST AND HOLES.
 - E) CHECK AND BALANCE FAN.
 - F) REINSTALL DOOR.
4. CHECK FRAME FOR DAMAGE, CRACKS AND LOOSE BOLTS.
5. REPORT ANY UNUSUAL CONDITIONS TO YOUR SUPERVISOR.

Weblink:
 Old_task: 4142/4-2M-CLEAN
 Est. Hours: 0

PM REVISION LOG:

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Condition Monitoring		PM Center	Dashboard			

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PM

Edit	Delete	Actions	Options	
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Pmid: 1P00UGZRG Next PM Date: 05/18/2019
 Asset ID: 124144

Work Order Type: PM-INSP Last PM Work Order Date: 02/16/2019
 PM Group: we Last PM Work Order No.: 461054

Calendar Based

Produce Every?: 13
 Calendar Based Freq.: Weeks
 Calendar Freq Type: Shadow

Meter Based

Produce PM Every: 0
 Occurs Desc.:
 Meter Type: TOTALS
 Daily Average: 0
 Last Meter Reading Entry: 0
 Last Meter Reading Date:
 Last PM Produced At: 0

On Calendar?: True
 Route Sequence:
 Route:
 Assign To Type: Maint Supv
 Assign To: Maint-3rd
 Perform For Type: n/a
 Perform For:
 Task No.: 0731

Meter To-Date: 0
 Skip Mondays?: True
 Skip Tuesdays?: True
 Skip Wednesdays?: True
 Skip Thursdays?: True
 Skip Fridays?: True
 Skip Saturdays?: False
 Skip Sundays?: True

Brief Description: 4142/4-M-STACKCLEAN:DUST COLLECTOR BLOWER 3-MONTH EXHAUST STACK STAND PIPE CLEANING
 Detailed Text: 1. OBTAIN A CONFINED SPACE ENTRY PERMIT.

2. LOCK OUT EXHAUST BLOWER.
3. REMOVE ACCESS DOOR.
4. SHOVEL OUT MUD AND RINSE CLEAN.
5. ROD OUT PIPE TO SUMP.
6. CLEAN OUT SUMP.
7. REINSTALL ACCESS DOOR.
8. REMOVE LOCK-OUT.
9. DISPOSE OF WASTE PROPERLY.
10. REPORT ON AMOUNT OF MUD AND ANY PROBLEMS FOUND.]

Weblink:
 Old_task: 4142/4-M-STACKCLEAN
 Est. Hours: 0

PM REVISION LOG:

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Condition Monitoring		PM Center	Dashboard			

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Edit	Delete	Actions	Options
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Pmid: 1PO0UGZRI
Asset ID: 124144

Next PM Date: 04/03/2019

Work Order Type: PM-INSP
PM Group:

Last PM Work Order Date: 03/27/2019
Last PM Work Order No.: 465197

Calendar Based

Produce Every?: 1
Calendar Based Freq.: Weeks
Calendar Freq Type: Shadow

Meter Based

Produce PM Every: 0
Occurs Desc.:
Meter Type: TOTALS
Daily Average: 0
Last Meter Reading Entry: 0
Last Meter Reading Date:
Last PM Produced At: 0

On Calendar?: True
Route Sequence:
Route:
Assign To Type: Maint Supv
Assign To: Maint-2nd
Perform For Type: n/a
Perform For:
Task No.: 0619

Meter To-Date: 0
Skip Mondays?: False
Skip Tuesdays?: False
Skip Wednesdays?: False
Skip Thursdays?: False
Skip Fridays?: True
Skip Saturdays?: True
Skip Sundays?: True

Brief Description: 4142/4-W-INSP:DUST COLLECTOR BLOWER WEEKLY INSPECTION

Detailed Text: WHILE THE BLOWER IS RUNNING, MAKE THE FOLLOWING INSPECTIONS.

1. MOTOR:
 - A) CHECK MOTOR FOR VIBRATION & FOR RUNNING HOT. TIGHTEN MOUNTING BOLTS.
 - B) CHECK MOTOR FOR ROUGH OR BAD BEARINGS.
 - C) CHECK FOR DAMAGE OR LOOSE SLINGER.
2. PILLOW BLOCK BEARING:
 - A) VISUALLY INSPECT FOR BAD PILLOW BLOCK BEARINGS.
 - B) DO BEARINGS SHOW RECENT EVIDENCE OF BEING GREASED? LUBRICATE AS NEEDED.
3. BLOWER HOUSING & DUCT WORK:
 - A) INSPECT BLOWER HOUSING FOR DAMAGE, RUST & HOLES.
 - B) CHECK FRAME FOR CRACKS & BROKEN WELDS.
 - C) INSPECT ALL DUCT PIPES TO COLLECTOR AND MACHINE FOR DAMAGE AND RUST HOLES.
4. SUMP PUMP AND TANK:
 - A) INSPECT SUMP PUMP TANK FOR LEAKS.
 - B) INSPECT PUMP FOR DAMAGE, FLOAT HOSE & POWER CORD.
5. REPORT ANY UNUSUAL CONDITIONS TO YOUR SUPERVISOR.]

Weblink:
Old_task: 4142/4-W-INSP
Est. Hours: 0

PM REVISION LOG:

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Condition Monitoring		PM Center	Dashboard			

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PM

Edit	Delete	Actions	Options
Pmid: 3HN0NH2R5		Next PM Date:	
Asset ID: 124144			
Work Order Type: PM-PREDICTIV		Last PM Work Order Date: 01/24/2019	
PM Group: IR		Last PM Work Order No.: 458654	
Calendar Based		Meter Based	
Produce Every?: 6		Produce PM Every: 0	
Calendar Based Freq.: Months		Occurs Desc.:	
Calendar Freq Type: Shadow		Meter Type: N/A	
		Daily Average: 0	
		Last Meter Reading Entry: 0	
		Last Meter Reading Date:	
		Last PM Produced At: 0	
On Calendar?: True		Meter To-Date: 0	
Route Sequence:		Skip Mondays?: False	
Route:		Skip Tuesdays?: False	
Assign To Type: Maint Supv		Skip Wednesdays?: False	
Assign To: Maint-3rd		Skip Thursdays?: False	
Perform For Type: n/a		Skip Fridays?: True	
Perform For:		Skip Saturdays?: True	
Task No.: 0027		Skip Sundays?: True	
Brief Description: 4160V-6M-INFRARED:4160 VOLT EQUIPMENT INFRARED INSPECTION			
Detailed Text: 1. WHILE EACH PIECE OF EQUIPMENT IS IN OPERATION, TAKE THE FOLLOWING THERMAL READINGS.			
2. EXERCISE CAUTION WHILE PERFORMING THIS P.M. POWER MUST REMAIN ON.			
3. OPEN DISCONNECT PANEL.			
4. SCAN WIRE CONNECTIONS, FUSES AND FUSE BLOCKS, AND MOTOR STARTER AND CONNECTIONS. MOTOR STARTER COIL MAY READ 200 DEGREES OR HIGHER. THIS IS NOT UNUSUAL. WIRE CONNECTIONS ON CONTACT BLOCKS, COILS, AND TRANSFORMERS MAY ALSO APPEAR HOT. COMPARE SIMILAR CONNECTIONS AND LOOK FOR HOT SPOTS AMONG THEM. (i.e. WIRE CONNECTIONS ON THE SAME FUSE BLOCK SHOULD BE ABOUT THE SAME TEMPERATURE.)			
5. FOR ANY HOT SPOTS FOUND, TAKE PICTURE AND CREATE A PM WORK ORDER FOR REPAIRS.			
6. FOR SAFETY, A MONITOR WILL ACCOMPANY THE PERSON PERFORMING THIS PM: DISC. LOCATED ON S-W CORNER OF FAB SHOP. 300 HP MTR			
Weblink:		PM REVISION LOG: 4/28/12 Started back up in Emaint.	
Old_task:			
Est. Hours: 0.25			

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PM

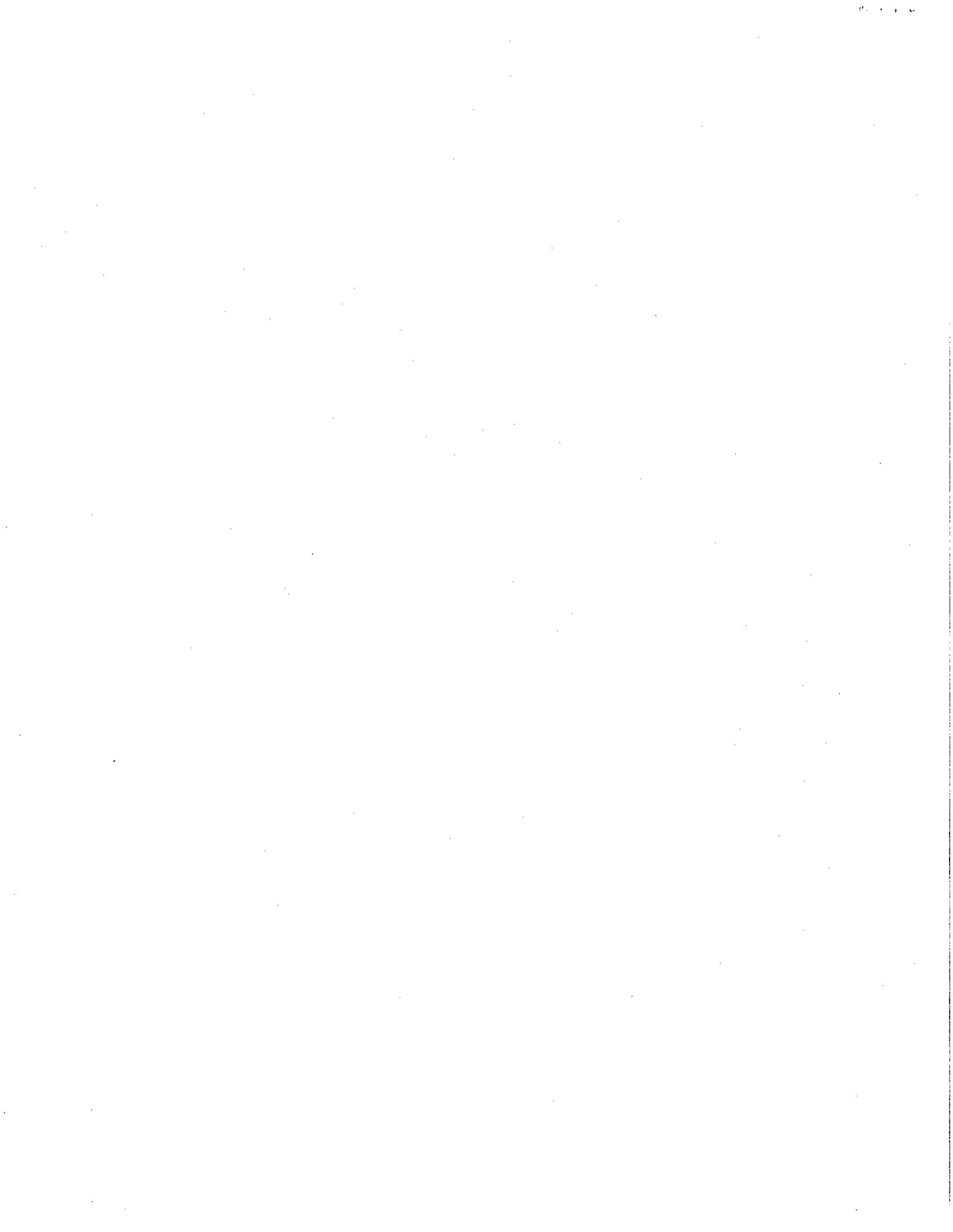
Edit	Delete	Actions	Options
Pmid: <u>45S0TGBDR</u>		Next PM Date:	
Asset ID: <u>124144</u>			
Work Order Type: <u>PM-LUBE</u>		Last PM Work Order Date: <u>08/06/2018</u>	
PM Group:		Last PM Work Order No.: <u>441346</u>	
Calendar Based		Meter Based	
Produce Every?: <u>26</u>		Produce PM Every: <u>0</u>	
Calendar Based Freq.: <u>Weeks</u>		Occurs Desc.:	
Calendar Freq Type: <u>Shadow</u>		Meter Type: <u>N/A</u>	
		Daily Average: <u>0</u>	
		Last Meter Reading Entry: <u>0</u>	
		Last Meter Reading Date:	
		Last PM Produced At: <u>0</u>	
On Calendar?: <u>True</u>		Meter To-Date: <u>0</u>	
Route Sequence:		Skip Mondays?: <u>False</u>	
Route:		Skip Tuesdays?: <u>False</u>	
Assign To Type: <u>Maint Supv</u>		Skip Wednesdays?: <u>False</u>	
Assign To: <u>Maint-3rd</u>		Skip Thursdays?: <u>False</u>	
Perform For Type: <u>n/a</u>		Skip Fridays?: <u>True</u>	
Perform For:		Skip Saturdays?: <u>True</u>	
Task No.: <u>0945</u>		Skip Sundays?: <u>True</u>	
Brief Description: <u>SCHNEIBLE DUST COLLECTOR MOTOR LUBE</u>			
Detailed Text: <u>WHILE THE FAN IS RUNNING, LUBRICATE THE MOTOR BEARINGS WITH THE METERED HAND GREASE GUN USING CHEVRON SR1 GREASE.</u>			
BEARING LUBRICATION STEPS			
1. CLEANSE THE AREA AROUND THE GREASE NIPPLES WITH CLEAN COTTON FABRIC.			
2. WITH THE MOTOR RUNNING, ADD GREASE WITH A MANUAL GREASE GUN UNTIL THE LUBRICANT COMMENCES TO BE EXPELLED FROM THE BLEEDER OUTLET, OR UNTIL THE QUANTITY OF GREASE RECOMMENDED IN HAS BEEN APPLIED.			
3. ALLOW THE MOTOR TO RUN LONG ENOUGH TO EJECT ALL EXCESS GREASE.			
GREASE QUANTITY - 1 PUMP = 1.25 GRAMS			
1. OUTPUT SHAFT SIDE MOTOR BEARING - 60 GRAMS, 48 PUMP			
2. FAN SIDE MOTOR BEARING - 45 GRAMS, 36 PUMPS			
RECORD ANY UNUSUAL CONDITION.			
Weblink:		PM REVISION LOG: <u>9/11/14 New 2014-39</u>	
Old_task:		<u>1/17/19 Drop PM. Auto Lube canisters installed on motor. VJK</u>	
Est. Hours: <u>0.25</u>			

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PM

Edit	Delete	Actions	Options
Pmid: <u>5E50S54YK</u>		Next PM Date: <u>04/04/2019</u>	
Asset ID: <u>124144</u>			
Work Order Type: <u>PM-INSP</u>		Last PM Work Order Date: <u>03/21/2019</u>	
PM Group:		Last PM Work Order No.: <u>464717</u>	
Calendar Based		Meter Based	
Produce Every?: <u>2</u>		Produce PM Every: <u>0</u>	
Calendar Based Freq.: <u>Weeks</u>		Occurs Desc.:	
Calendar Freq Type: <u>Shadow</u>		Meter Type: <u>N/A</u>	
		Daily Average: <u>0</u>	
		Last Meter Reading Entry: <u>0</u>	
		Last Meter Reading Date:	
		Last PM Produced At: <u>0</u>	
On Calendar?: <u>True</u>		Meter To-Date: <u>0</u>	
Route Sequence:		Skip Mondays?: <u>False</u>	
Route:		Skip Tuesdays?: <u>False</u>	
Assign To Type: <u>Maint Supv</u>		Skip Wednesdays?: <u>False</u>	
Assign To: <u>Maint-3rd</u>		Skip Thursdays?: <u>False</u>	
Perform For Type:		Skip Fridays?: <u>True</u>	
Perform For:		Skip Saturdays?: <u>True</u>	
Task No.: <u>0978</u>		Skip Sundays?: <u>True</u>	
Brief Description: <u>AUTOLUBE CANISTER INSPECTION</u>			
Detailed Text: <u>RECORD GREASE LEVELS OF THE AUTO LUBE CANISTERS ON MOTOR.</u>			
DRIVE END _____ cm			
OPPOSITE DRIVE END _____ cm			
REPLACE CANISTER WHEN THEY GET TO ZERO AS NEEDED. SET NEW CANISTERS TO 12 MONTHS.			
NOTE: DE 250 ML CANISTER , ODE 125 ML CANISTER			
Weblink:		PM REVISION LOG: <u>1/16/19 New</u>	
Old_task:			
Est. Hours: <u>0.10</u>			



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Assets

Add	Edit	Delete	List	<<	GoTo	>>	Actions	Options
Asset ID: 601500								
Asset Description: RTO GENERAL								
Asset Type Description:						Department:		
Type:						Manufacturer:		
Criticality:						Model No.:		
Out of Service: False						Serial No.:		
Out of Service Date:						PLC ID #:		
Weblink:						Lubrication Type:		
Comments:								
Monitor Class:								

Meter Readings

Add	Options					
Tran. ID.	Meter Type	Date Taken	Taken By	Meter Reading	Reset	Meter total
No Records Found.						

PM Schedule

Add	Options	Copy PM Schedule	Learn More			
Produce Calendar Based Every? Freq.	Next PM Date	Brief Description	Last PM Work Order Date	Last PM Work Order Calendar Freq No. Type	Assign To	Est. Hours
No Records Found.						

Related Parts

Add	Options				
Item	Descrip	Qty	Unitms	Category	
No Records Found.					

Name Plate Information

Add	Options	Import Attributes		
Plateid	Descrip	Value		
No Records Found.				

Monitoring Points

Options	Add New Class	Delete Class		
Monitor Class	Monitor Type	Upper bound		
No Records Found.				

Asset Documents

Options		
COMPID	Print with WO	Description
No Records Found.		

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Assets

Add	Edit	Delete	List	<<	GoTo	>>	Actions	Options
Asset ID: 601501								
Asset Description: RTO CHAMBER/REGENERATIVE & PURIFICATION								
Asset Type Description:				Department: CDCALINE				
Type: A				Manufacturer:				
Criticality: EQ-A				Model No.:				
Out of Service: False				Serial No.:				
Out of Service Date:				PLC ID #:				
Weblink:				Lubrication Type:				
Comments:								
Monitor Class:								

Meter Readings

Add	Options					
Tran. ID.	Meter Type	Date Taken	Taken By	Meter Reading	Reset	Meter total
No Records Found.						

PM Schedule

Add	Options	Copy PM Schedule	Learn More						
Produce Calendar Every?	Next PM Based Freq.	Date	Brief Description	Last PM Work Order Date	Last PM Work Order No.	Calendar Freq Type	Assign To	Est. Hours	
GoTo	1.00	Months	04/01/2019	RTO-1M-CHBRINSP:RTO 1-MONTH CHAMBER/REGEN/BURNER INSPECTION	02/18/2019	461230	Shadow	Maint-2nd	0.00
GoTo	1.00	Weeks		RTO-W/E-DWN/UP:RTO START UP	06/21/2008	100994	Static		0.00

Related Parts

Add	Options			
Item	Descrip	Qty	Units	Category
No Records Found.				

Name Plate Information

Add	Options	Import Attributes
Plateid	Descrip	Value
No Records Found.		

Monitoring Points

Options	Add New Class	Delete Class
Monitor Class	Monitor Type	Upper bound
No Records Found.		

Asset Documents

Options		
COMPID	Print with WO	Description
No Records Found.		

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PM

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Pmid: 1PO0UH00B Next PM Date: 04/01/2019
 Asset ID: 001501

Work Order Type: PM-INSP Last PM Work Order Date: 02/18/2019
 PM Group: MDNRE Last PM Work Order No.: 461230

Calendar Based

Produce Every?: 1
 Calendar Based Freq.: Months
 Calendar Freq Type: Shadow

Meter Based

Produce PM Every: 0
 Occurs Desc.:
 Meter Type: TOTALS
 Daily Average: 0
 Last Meter Reading Entry: 0
 Last Meter Reading Date:
 Last PM Produced At: 0

On Calendar?: True
 Route Sequence:
 Route:
 Assign To Type: Maint Supv
 Assign To: Maint-2nd
 Perform For Type: n/a
 Perform For:
 Task No.: 0330

Meter To-Date: 0
 Skip Mondays?: False
 Skip Tuesdays?: True
 Skip Wednesdays?: True
 Skip Thursdays?: True
 Skip Fridays?: True
 Skip Saturdays?: True
 Skip Sundays?: True

Brief Description: RTO-1M-CHBRINSP:RTO 1-MONTH CHAMBER/REGEN/BURNER INSPECTION

Detailed Text: *****

THIS PM IS LINKED TO MDNRE REGULATORY REQUIREMENTS !
 1. ALL RECORDS OF THIS PM ARE TO BE RETAINED FOR 5 YEARS.
 2. NOTIFY HSE MANAGER OF ANY DEVIATIONS.

WHILE THE RTO IS IN OPERATION, MAKE THE FOLLOWING INSPECTION.

1. SUPPORT COLUMNS:
 - A) CHECK ALL SUPPORT COLUMNS FOR DAMAGE AND FOR BEING BENT.
 - B) CHECK FOR LOOSE OR MISSING ANCHOR BOLTS.
2. REGENERATIVE CHAMBERS:
 - A) INSPECT FIVE (5) CHAMBERS FOR RUST, FOR HOLES, FOR WARPAGE.
3. PURIFICATION CHAMBER:
 - A) INSPECT CHAMBER WALLS FOR RUST, FOR HOLES, FOR WARPAGE.
4. BURNERS - MAIN GAS TRAIN:
 - A) MAIN GAS TRAIN, INSPECT PIPING FOR GAS LEAKS.
 - B) INSPECT ALL SEALTITE FOR DAMAGE.
 - C) CHECK FOR DAMAGED VALVES, GAUGES, ETC.
5. BURNERS - GAS TRAIN: #1 EAST _____ #2 WEST _____
 - A) INSPECT PIPING FOR GAS LEAKS.
 - B) CHECK ALL SEALTITE FOR DAMAGE.
 - C) CHECK FOR DAMAGED VALVES, GAUGES, ETC.
6. BURNERS - #1 EAST _____ #2 WEST _____
 - A) INSPECT BURNER FOR DAMAGE, FOR RUST, FOR HOT SPOTS, AND FOR HOLES.
 - B) VISUALLY INSPECT SPARK PLUG AND SPARK PLUG WIRE FOR DAMAGE.
 - C) CHECK FIRE-EYE FOR DAMAGE.
 - D) CHECK BURNER FOR LOOSE OR MISSING MOUNTING BOLTS.
 - E) CHECK EXPANSION JOINT FOR HOLES, FOR SIGNS OF BEING BRITTLE AND FOR LOOSE CLAMPS.
 - F) CHECK ALL SEALTITE FOR DAMAGE.
 - G) INSPECT TUBING FOR DAMAGE, FOR BEING PINCHED, AND FOR HOLES.
7. BURNERS - COMBUSTOR AIR ACTUATOR: 1-FCV-308 #1 EAST _____ 1-FCV-309 #2 WEST _____
 - A) CHECK ACTUATOR ARMS FOR WEAR, FOR DAMAGE AND FOR BEING BENT.
 - B) CHECK SEALTITE FOR DAMAGE.

8. THERMOCOUPLE PURIF. CHAMBER - QTY.-4 (S-SIDE):
A) VISUALLY INSPECT THERMOCOUPLES FOR DAMAGE AND FOR BEING LOOSE, ETC.
B) INSPECT SEALTITE FOR DAMAGE.

9. THERMOCOUPLES COLD FACE - QTY.-5 (N-SIDE):
A) VISUALLY INSPECT THERMOCOUPLES FOR DAMAGE AND FOR BEING LOOSE, ETC. |

Weblink:

Old_task: RTO-1M-
CHBRINSP

PM REVISION LOG: 11/20/15 Changed to come out on Mondays so can be done while RTO is running sometime during week as PM states, Ben McLeod. VJK

Est. Hours: 0

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Pmid: <u>1P00UH00C</u>		Next PM Date:	
Asset ID: <u>601501</u>			
Work Order Type: <u>PM-INSP</u>		Last PM Work Order Date: <u>06/21/2008</u>	
PM Group: <u>w/e</u>		Last PM Work Order No.: <u>100994</u>	
Calendar Based		Meter Based	
Produce Every?: <u>1</u>		Produce PM Every: <u>0</u>	
Calendar Based Freq.: <u>Weeks</u>		Occurs Desc.:	
Calendar Freq Type: <u>Static</u>		Meter Type: <u>TOTALS</u>	
		Daily Average: <u>0</u>	
		Last Meter Reading Entry: <u>0</u>	
		Last Meter Reading Date:	
		Last PM Produced At: <u>0</u>	
On Calendar?: <u>True</u>		Meter To-Date: <u>0</u>	
Route Sequence:		Skip Mondays?: <u>True</u>	
Route:		Skip Tuesdays?: <u>True</u>	
Assign To Type: <u>Maint Supv</u>		Skip Wednesdays?: <u>True</u>	
Assign To:		Skip Thursdays?: <u>True</u>	
Perform For Type: <u>Supplier</u>		Skip Fridays?: <u>True</u>	
Perform For:		Skip Saturdays?: <u>False</u>	
Task No.: <u>0521</u>		Skip Sundays?: <u>True</u>	
Brief Description: <u>RTO-W/E-DWN/UP:RTO START UP</u>			
Detailed Text: <u>1. IF THIS IS A CUPOLA DROP BOTTOM WEEKEND:</u>			
<u>A. TURN RTO TO BAKE-OUT.</u>			
<u>B. AFTER BAKE-OUT IS COMPLETE, SHUTDOWN THE RTO.</u>			
<u>C. PASS ONTO SHIFT DOING STARTUP.</u>			
<u>2. IF THIS IS A NORMAL REPAIR WEEKEND:</u>			
<u>A. THE RTO WILL SHUTDOWN AUTOMATICALLY AT THE PRESET TIME.</u>			
<u>B. VERIFY THAT THE RTO HAS SHUTDOWN.</u>			
<u>C. PASS ONTO SHIFT DOING STARTUP.</u>			
<u>4. START UP RTO TO GET TO READY THERM.</u>			
Weblink:			
Old_task: <u>RTO-W/E-DWN/UP</u>		PM REVISION LOG: <u>6/13/07 Changed pm to include auto shutdown.</u>	
Est. Hours: <u>0</u>		<u>6/24/08 Drop PM. Shutdown/started as needed no pm needed. VJK</u>	

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Condition Monitoring		PM Center	Dashboard			

Assets

Add	Edit	Delete	List	<<	GoTo	>>	Actions	Options
Asset ID: 601502 Asset Description: RTO EXHAUST FAN Asset Type Description: Type: A Criticality: EQ-A Out of Service: False Out of Service Date: Weblink: Comments: Monitor Class:								
Department: CDCALINE Manufacturer: Model No.: Serial No.: PLC ID #: Lubrication Type:								

Meter Readings

Add	Options					
Tran. ID.	Meter Type	Date Taken	Taken By	Meter Reading	Reset	Meter total
No Records Found.						

PM Schedule

Add	Options	Copy PM Schedule	Learn More					
Produce Calendar Every?	Based Freq.	Next PM Date	Brief Description	Last PM Work Order Date	Last PM Work Order No.	Calendar Freq Type	Assign To	Est. Hours
GoTo	3.00 Months	06/22/2019	RTO-3M-EFANIMP:RTO 3-MONTH EXHAUST FAN IMPELLER/BRG'S INSPECTION	03/23/2019	464774	Shadow	Maint-2nd	0.00
GoTo	1.00 Months	04/01/2019	RTO-x-EFLUB:RTO EXHAUST FAN LUBE ROUTING	02/18/2019	461231	Shadow	Maint-2nd	0.00

Related Parts

Add	Options			
Item	Descrp	Qty	Unitms	Category
No Records Found.				

Name Plate Information

Add	Options	Import Attributes
Plateid	Descrp	Value
No Records Found.		

Monitoring Points

Options	Add New Class	Delete Class
Monitor Class	Monitor Type	Upper bound
GoTo Fan Brg Temp	Inboard Brg	150.00
GoTo Fan Brg Temp	Outboard Brg	150.00

Asset Documents

Options		
COMPID	Print with WO	Description
No Records Found.		

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Condition Monitoring		PM Center	Dashboard			

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Edit	Delete	Actions	Options
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Pmid: 1PO0UH00D Next PM Date: 06/22/2019
 Asset ID: 601502

Work Order Type: PM-INSP Last PM Work Order Date: 03/23/2019
 PM Group: MDNRE-w/e Last PM Work Order No.: 464774

Calendar Based

Produce Every?: 3
 Calendar Based Freq.: Months
 Calendar Freq Type: Shadow

Meter Based

Produce PM Every: 0
 Occurs Desc.:
 Meter Type: TOTALS
 Daily Average: 0
 Last Meter Reading Entry: 0
 Last Meter Reading Date:
 Last PM Produced At: 0

On Calendar?: True
 Route Sequence:
 Route:
 Assign To Type: Maint Supp
 Assign To: Maint-2nd
 Perform For Type: n/a
 Perform For:
 Task No.: 0329

Meter To-Date: 0
 Skip Mondays?: True
 Skip Tuesdays?: True
 Skip Wednesdays?: True
 Skip Thursdays?: True
 Skip Fridays?: True
 Skip Saturdays?: False
 Skip Sundays?: True

Brief Description: RTO-3M-EFANIMP:RTO 3-MONTH EXHAUST FAN IMPELLER/BRG'S INSPECTION

Detailed Text: *****

THIS PM IS LINKED TO MDNRE REGULATORY REQUIREMENTS !
 1. ALL RECORDS OF THIS PM ARE TO BE RETAINED FOR 5 YEARS.
 2. NOTIFY HSE MANAGER OF ANY DEVIATIONS.

1. BEFORE YOU WORK ON THIS UNIT, SHUT THE RTO-SYSTEM DOWN, ACCORDING TO SHUT DOWN PROCEDURES.

2. LOCK-OUT EXHAUST FAN MOTOR - EQUIP.# 601503.

3. BEARINGS:

- A) INSPECT NORTH AND SOUTH PILLOW BLOCK BEARINGS.
- B) CHECK AND TIGHTEN BEARING MOUNTING BOLTS.
- C) CHECK BEARING SLINGER FOR DAMAGE AND FOR BEING TIGHT ON SHAFT.
- D) CHECK BEARING HEAT SHIELDS FOR DAMAGE, TIGHTEN MOUNTING BOLTS.
- E) CHECK NORTH AND SOUTH HOUSING SHAFT SEALS FOR DAMAGE AND FOR WEAR - REPLACE RUBBER SEAL AS REQUIRED.

4. IMPELLER -- OPEN EAST INSPECTION DOOR:

- A) CHECK IMPELLER BLADES FOR BUILDUP, CLEAN BLADE WITH WIRE BRUSH AS REQUIRED.
- B) INSPECT IMPELLER BLADES FOR WEAR, FOR HOLES AND FOR RUST.
- C) CHECK INLET SCROLL FOR WEAR AND FOR DAMAGE.
- D) BALANCE FAN, ATTACH READINGS TO P.M.
- E) REINSTALL DOOR.

5. CHECK FRAME FOR DAMAGE, FOR CRACKS, FOR LOOSE MOUNTING BOLTS.

6. REMOVE YOUR SAFETY LOCK, AND RESTART RTO-SYSTEM ACCORDING TO START-UP PROCEDURES.

7. PUT RTO-SYSTEM IN RECIRCULATING MODE.

8. REPORT ANY UNUSUAL CONDITIONS TO YOUR SUPERVISOR.]

Weblink:

Old_task: RTO-3M-EFANIMP

PM REVISION LOG:

Est. Hours: 0

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PM

Edit	Delete	Actions	Options
Pmid: 1PO0UH00E		Next PM Date: 04/01/2019	
Asset ID: 601502			
Work Order Type: PM-LUBE		Last PM Work Order Date: 02/18/2019	
PM Group:		Last PM Work Order No.: 461231	
Calendar Based		Meter Based	
Produce Every?: 1		Produce PM Every: 0	
Calendar Based Freq.: Months		Occurs Desc.:	
Calendar Freq Type: Shadow		Meter Type: TOTALS	
		Daily Average: 0	
		Last Meter Reading Entry: 0	
		Last Meter Reading Date:	
		Last PM Produced At: 0	
On Calendar?: True		Meter To-Date: 0	
Route Sequence:		Skip Mondays?: False	
Route:		Skip Tuesdays?: True	
Assign To Type: Maint Supv		Skip Wednesdays?: True	
Assign To: Maint-2nd		Skip Thursdays?: True	
Perform For Type: n/a		Skip Fridays?: True	
Perform For:		Skip Saturdays?: True	
Task No.: 0279		Skip Sundays?: True	
Brief Description: RTO-x-EFLUB:RTO EXHAUST FAN LUBE ROUTING			
Detailed Text: WHILE THE EXHAUST FAN IS RUNNING, LUBRICATE PILLOWBLOCK BEARING, WITH HAND GREASE GUN.			
<ol style="list-style-type: none"> 1. SOUTH BEARING (FLOAT) LUBRICATE BEARING WITH 3 PUMPS OF STARPLEX-2 GREASE. 2. NORTH BEARING (FIXED) LUBRICATE BEARING WITH 4 PUMPS OF STARPLEX-2 GREASE. 3. REPORT UNUSUAL CONDITIONS TO YOUR SUPERVISOR. 			
Weblink:		PM REVISION LOG: 8/26/11 Line 1 - Changed from 0.97 oz. of grease to 3 pumps of grease. VJK	
Old_task: RTO-BW-EFLUB		8/26/11 Line 2 - Changed form 1.49 oz. of grease to 4 pumps of grease. VJK	
		12/4/13 Changed Assign To from 1st shift to 2nd shift per Ben McLeod. VJK	
		9/1/15 Changed frequency from 2w to 1month, per Ben McLeod. VJK	
Est. Hours: 0			

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Assets

Add	Edit	Delete	List	<<	GoTo	>>	Actions	Options
Asset ID: 601503 Asset Description: RTO 700 HP MOTOR Asset Type Description: Type: A Criticality: EQ-A Out of Service: False Out of Service Date: Weblink: Comments: Monitor Class:								
Department: CDCALINE Manufacturer: Model No.: Serial No.: PLC ID #: Lubrication Type:								

Meter Readings

Add	Options					
Tran. ID.	Meter Type	Date Taken	Taken By	Meter Reading	Reset	Meter total
No Records Found.						

PM Schedule

Add	Options	Copy PM Schedule	Learn More				
Produce Calendar Every? Based Freq.	Next PM Date	Brief Description	Last PM Work Order Date	Last PM Work Order No.	Calendar Freq Type	Assign To	Est. Hours
GoTo 3.00 Months	06/04/2019	RTO-3M-DRVCPLG:RTO 3-MONTH DRIVE COUPLING INSPECTION	03/04/2019	462634	Shadow	Maint-2nd	0.00
GoTo 6.00 Months		RTO-6M-MTR:RTO 6-MONTH 700HP MOTOR LUBRICATION	12/17/2018	455233	Shadow	Maint-2nd	0.00
GoTo 1.00 Weeks	04/01/2019	RTO-W-EXHFAN:RTO WEEKLY EXHAUST FAN INSPECTION	03/25/2019	464983	Static	Maint-2nd	0.00
GoTo 6.00 Months		4160V-6M-INFRA:4160 VOLT EQUIPMENT INFRARED INSPECTION	12/18/2018	455518	Shadow	Maint-2nd	0.25
GoTo 2.00 Weeks	04/04/2019	AUTOLUBE CANISTER INSPECTION	03/21/2019	464718	Shadow	Maint-2nd	0.10

Related Parts

Add	Options			
Item	Descrip	Qty	Units	Category
No Records Found.				

Name Plate Information

Add	Options	Import Attributes
Plateid	Descrip	Value
No Records Found.		

Monitoring Points

Options	Add New Class	Delete Class
Monitor Class	Monitor Type	Upper bound
No Records Found.		

Asset Documents

Options		
COMPID	Print with WO	Description
No Records Found.		

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PM

Edit	Delete	Actions	Options
Pmid: <u>1P00UH00F</u>		Next PM Date: 06/04/2019	
Asset ID: <u>601503</u>			
Work Order Type: <u>PM-INSP</u>		Last PM Work Order Date: <u>03/04/2019</u>	
PM Group:		Last PM Work Order No.: <u>462634</u>	
Calendar Based		Meter Based	
Produce Every?: <u>3</u>		Produce PM Every: <u>0</u>	
Calendar Based Freq.: <u>Months</u>		Occurs Desc.:	
Calendar Freq Type: <u>Shadow</u>		Meter Type: <u>TOTALS</u>	
		Daily Average: <u>0</u>	
		Last Meter Reading Entry: <u>0</u>	
		Last Meter Reading Date:	
		Last PM Produced At: <u>0</u>	
On Calendar?: <u>True</u>		Meter To-Date: <u>0</u>	
Route Sequence:		Skip Mondays?: <u>False</u>	
Route:		Skip Tuesdays?: <u>False</u>	
Assign To Type: <u>Maint Supv</u>		Skip Wednesdays?: <u>False</u>	
Assign To: <u>Maint-2nd</u>		Skip Thursdays?: <u>False</u>	
Perform For Type: <u>n/a</u>		Skip Fridays?: <u>True</u>	
Perform For:		Skip Saturdays?: <u>True</u>	
Task No.: <u>0313</u>		Skip Sundays?: <u>True</u>	
Brief Description: <u>RTO-3M-DRVCP LG:RTO 3-MONTH DRIVE COUPLING INSPECTION</u>			
Detailed Text: <u>1. BEFORE YOU WORK ON THIS DRIVE UNIT, LOCK-IT-OUT!!</u>			
<p>2. DRIVE COUPLING - BETWEEN 700 HP MOTOR AND FAN.</p> <p>A. REMOVE COUPLING GUARD.</p> <p>B. REMOVE FLANGE BOLTS, SEPARATE SLEEVES, AND SLIDE SLEEVES OVER HUBS.</p> <p>C. CLEAN OUT OLD GREASE.</p> <p>D. INSPECT GEAR TEETH FOR WEAR AND FOR DAMAGE.</p> <p>E. INSPECT O-RINGS AND GASKET FOR DAMAGE.</p> <p>F. CHECK GAP AT 90 DEGREE WITH FEELER GAUGE. GAP SHOULD BE 0.250</p> <p>G. CHECK KEY FOR WEAR AND FOR TIGHT FIT.</p> <p>H. TIGHTEN SET SCREWS.</p> <p>I. COAT HUB AND SLEEVE THOROUGHLY WITH STARPLEX-2 GREASE.</p> <p>J. REASSEMBLE COUPLING. TORQUE BOLTS TO 150 FT. LBS.</p> <p>K. REMOVE LUBE PLUGS AND COMPLETE THE LUBRICATION.</p> <p>L. REINSTALL LUBE PLUGS.</p> <p>M. REINSTALL GUARD.</p>			
3. REPORT UNUSUAL CONDITIONS TO YOUR SUPERVISOR.			
Weblink:		RTO-3M- PM REVISION LOG: 5/11/12 Moved from 1st to 2nd. Down shift PM. VJK	
Old_task:		DRVCP LG 2/18/14 Discovered this PM had the wrong instructions. Had weekly motor/fan inspection instructions, nothing to do with coupling. Found correct instructions in archived PM books and entered. VJK	
Est. Hours: <u>0</u>			

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PM

Edit	Delete	Actions	Options
Pmid: <u>1PO0UH00G</u>		Next PM Date:	
Asset ID: <u>601503</u>			
Work Order Type: <u>PM-LUBE</u>		Last PM Work Order Date: <u>12/17/2018</u>	
PM Group: <u>MDNRE</u>		Last PM Work Order No.: <u>455233</u>	
Calendar Based		Meter Based	
Produce Every?: <u>6</u>		Produce PM Every: <u>0</u>	
Calendar Based Freq.: <u>Months</u>		Occurs Desc.: <u></u>	
Calendar Freq Type: <u>Shadow</u>		Meter Type: <u>TOTALS</u>	
		Daily Average: <u>0</u>	
		Last Meter Reading Entry: <u>0</u>	
		Last Meter Reading Date: <u></u>	
		Last PM Produced At: <u>0</u>	
On Calendar?: <u>True</u>		Meter To-Date: <u>0</u>	
Route Sequence: <u></u>		Skip Mondays?: <u>False</u>	
Route: <u></u>		Skip Tuesdays?: <u>True</u>	
Assign To Type: <u>Maint Supv</u>		Skip Wednesdays?: <u>True</u>	
Assign To: <u>Maint-2nd</u>		Skip Thursdays?: <u>True</u>	
Perform For Type: <u>n/a</u>		Skip Fridays?: <u>True</u>	
Perform For: <u></u>		Skip Saturdays?: <u>True</u>	
Task No.: <u>0276</u>		Skip Sundays?: <u>True</u>	
Brief Description: <u>RTO-6M-MTR:RTO 6-MONTH 700HP MOTOR LUBRICATION</u>			
Detailed Text: *****			
THIS PM IS LINKED TO MDNRE REGULATORY REQUIREMENTS !			
1. ALL RECORDS OF THIS PM ARE TO BE RETAINED FOR 5 YEARS.			
2. NOTIFY HSE MANAGER OF ANY DEVIATIONS.			

1. WHILE THE FAN IS RUNNING, LUBRICATE MOTOR, USE HAND GREASE GUN ONLY.			
2. INBOARD BEARING: LUBRICATE WITH CHEVRON STARPLEX EP2 GREASE, USE TWO (2) SMALL SHOTS OF GREASE.			
3. OUTBOARD BEARING: LUBRICATE WITH CHEVRON STARPLEX EP2 GREASE, USE TWO (2) SMALL SHOTS OF GREASE.			
4. REPORT UNUSUAL CONDITIONS TO YOUR SUPERVISOR.]			
Weblink: <u>RTO-6M-MTR</u> PM REVISION LOG: <u>11/20/15</u> Changed assigned to from 1st to 2nd shift maintenance. VJK			
Old_task: <u>11/20/15</u> Changed to only come out on Monday. VJK			
<u>5/25/16</u> Updated grease from Texaco RB2 grease to Chevron Starplex EP2 per Ben McLeod. VJK			
<u>1/17/19</u> Drop PM. Auto Lube canisters installed on motor. VJK			
Est. Hours: <u>0</u>			

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PM

Edit	Delete	Actions	Options
Pmid: 1PO0UH00H		Next PM Date: 04/01/2019	
Asset ID: 601503			
Work Order Type: PM-INSP		Last PM Work Order Date: 03/25/2019	
PM Group: MDNRE		Last PM Work Order No.: 464983	
Calendar Based	Meter Based		
Produce Every?: 1	Produce PM Every: 0		
Calendar Based Freq.: Weeks	Occurs Desc.:		
Calendar Freq Type: Static	Meter Type: TOTALS		
	Daily Average: 0		
	Last Meter Reading Entry: 0		
	Last Meter Reading Date:		
	Last PM Produced At: 0		
On Calendar?: True	Meter To-Date: 0		
Route Sequence:	Skip Mondays?: False		
Route:	Skip Tuesdays?: True		
Assign To Type: Maint Supv	Skip Wednesdays?: True		
Assign To: Maint-2nd	Skip Thursdays?: True		
Perform For Type: n/a	Skip Fridays?: True		
Perform For:	Skip Saturdays?: True		
Task No.: 0312	Skip Sundays?: True		
Brief Description: RTO-W-EXHFAN:RTO WEEKLY EXHAUST FAN INSPECTION			
Detailed Text: *****			
THIS PM IS LINKED TO MDNRE REGULATORY REQUIREMENTS !			
1. ALL RECORDS OF THIS PM ARE TO BE RETAINED FOR 5 YEARS.			
2. NOTIFY HSE MANAGER OF ANY DEVIATIONS.			

WHILE THE SYSTEM IS RUNNING, MAKE THE FOLLOWING INSPECTION.			
1. 700 HP MOTOR - EQUIPMENT # 601503			
A) CHECK MOTOR FOR VIBRATION AND RUNNING HOT.			
B) CHECK MOUNTING BOLTS FOR BEING TIGHT.			
C) CHECK GROUTING FOR CRACKS AND FOR SIGNS OF DETERIORATION.			
D) CHECK SEALTITE, CONDUIT AND JUNCTION BOXES FOR DAMAGE.			
2. EXHAUST FAN - EQUIPMENT # 601502			
A) CHECK PILLOWBLOCK BEARING MOUNTING BOLTS.			
B) CHECK HOUSING FOR DAMAGE, RUST, HOLES, AND LOOSE MOUNTING BOLTS ON PIE SECTION.			
C) CHECK THE ENTIRE FRAME FOR CRACKS AND BROKEN WELDS. TIGHTEN ALL MOUNTING BOLTS.			
C) CHECK TEMPERATURE DETECTOR AND SEALTITE FOR DAMAGE.			
E) CHECK VIBRATION DETECTOR AND SEALTITE FOR DAMAGE.			
F) CHECK GROUTING FOR CRACKS AND FOR SIGNS OF DETERIORATION.			
G) CHECK BEARING HEAT SHIELD AND GUARDS FOR DAMAGE.			
3. IF THE FAN IS RUNNING, RECORD BEARING TEMPERATURES FROM THE PANEL SCREEN.			
_____ OUTBOARD FAN BRG #10			
_____ INBOARD FAN BRG #9			
PM CLERK TO ENTER FAN BEARING TEMPERATURE INTO EMAINT CONDITION MONITORING.			
4. REPORT UNUSUAL CONDITIONS TO YOUR SUPERVISOR.			
Weblink:			
RTO-W-		PM REVISION LOG: 10/11/11 Changed FreqType from shadow to fix per B McLeod. VJK	
Old_task: EXHFAN		10/29/13 Added line item to record bearing temperatures per B McLeod. VJK	
Est. Hours: 0			

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Edit	Delete	Actions	Options
Pmid: <u>3HN0LZD0G</u>		Next PM Date:	
Asset ID: <u>601503</u>			
Work Order Type: <u>PM-PREDICTIV</u>		Last PM Work Order Date: <u>12/18/2018</u>	
PM Group: <u>IR</u>		Last PM Work Order No.: <u>455518</u>	
Calendar Based		Meter Based	
Produce Every?: <u>6</u>		Produce PM Every: <u>0</u>	
Calendar Based Freq.: <u>Months</u>		Occurs Desc.: <u></u>	
Calendar Freq Type: <u>Shadow</u>		Meter Type: <u>N/A</u>	
		Daily Average: <u>0</u>	
		Last Meter Reading Entry: <u>0</u>	
		Last Meter Reading Date: <u></u>	
		Last PM Produced At: <u>0</u>	
On Calendar?: <u>True</u>		Meter To-Date: <u>0</u>	
Route Sequence: <u></u>		Skip Mondays?: <u>False</u>	
Route: <u></u>		Skip Tuesdays?: <u>False</u>	
Assign To Type: <u>Maint Supv</u>		Skip Wednesdays?: <u>False</u>	
Assign To: <u>Maint-2nd</u>		Skip Thursdays?: <u>False</u>	
Perform For Type: <u>n/a</u>		Skip Fridays?: <u>True</u>	
Perform For: <u></u>		Skip Saturdays?: <u>True</u>	
Task No.: <u>0027</u>		Skip Sundays?: <u>True</u>	
Brief Description: <u>4160V-6M-INFRARED:4160 VOLT EQUIPMENT INFRARED INSPECTION</u>			
Detailed Text: <u>1. WHILE EACH PIECE OF EQUIPMENT IS IN OPERATION, TAKE THE FOLLOWING THERMAL READINGS.</u>			
2. EXERCISE CAUTION WHILE PERFORMING THIS P.M. POWER MUST REMAIN ON.			
3. OPEN DISCONNECT PANEL.			
4. SCAN WIRE CONNECTIONS, FUSES AND FUSE BLOCKS, AND MOTOR STARTER AND CONNECTIONS. MOTOR STARTER COIL MAY READ 200 DEGREES OR HIGHER. THIS IS NOT UNUSUAL. WIRE CONNECTIONS ON CONTACT BLOCKS, COILS, AND TRANSFORMERS MAY ALSO APPEAR HOT. COMPARE SIMILAR CONNECTIONS AND LOOK FOR HOT SPOTS AMONG THEM. (i.e. WIRE CONNECTIONS ON THE SAME FUSE BLOCK SHOULD BE ABOUT THE SAME TEMPERATURE.)			
5. FOR ANY HOT SPOTS FOUND, TAKE PICTURE AND CREATE A PM WORK ORDER FOR REPAIRS.			
6. FOR SAFETY, A MONITOR WILL ACCOMPANY THE PERSON PERFORMING THIS PM:			
DISC. LOCATED OUTSIDE RTO CONTROL ROOM.			
Weblink: <u></u>		PM REVISION LOG: <u>4/28/12 Started back up in Emaint.</u>	
Old_task: <u></u>			
Est. Hours: <u>0.25</u>			

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PM

Edit	Delete	Actions	Options
Pmid: 5E50SBVAG		Next PM Date: 04/04/2019	
Asset ID: 601503			
Work Order Type: PM-INSP		Last PM Work Order Date: 03/21/2019	
PM Group:		Last PM Work Order No.: 464718	
Calendar Based		Meter Based	
Produce Every?: 2		Produce PM Every: 0	
Calendar Based Freq.: Weeks		Occurs Desc.:	
Calendar Freq Type: Shadow		Meter Type: N/A	
		Daily Average: 0	
		Last Meter Reading Entry: 0	
		Last Meter Reading Date:	
		Last PM Produced At: 0	
On Calendar?: True		Meter To-Date: 0	
Route Sequence:		Skip Mondays?: False	
Route:		Skip Tuesdays?: False	
Assign To Type: Maint Supv		Skip Wednesdays?: False	
Assign To: Maint-2nd		Skip Thursdays?: False	
Perform For Type:		Skip Fridays?: True	
Perform For:		Skip Saturdays?: True	
Task No.: 0978		Skip Sundays?: True	
Brief Description: AUTOLUBE CANISTER INSPECTION			
Detailed Text: RECORD GREASE LEVELS OF THE AUTO LUBE CANISTERS ON MOTOR.			
DRIVE END _____ cm			
OPPOSITE DRIVE END _____ cm			
REPLACE CANISTER WHEN THEY GET TO ZERO AS NEEDED, SET NEW CANISTERS TO 12 MONTHS.			
NOTE: DE 125 ML CANISTER, ODE 60 ML CANISTER			
Weblink:		PM REVISION LOG: 1/16/19 New	
Old_task:			
Est. Hours: 0.10			

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Assets

Add	Edit	Delete	List	<<	GoTo	>>	Actions	Options
Asset ID: 601504 Asset Description: RTO HYDRAULIC UNIT Asset Type Description: Type: A Criticality: EQ-A Out of Service: False Out of Service Date: Weblink: Comments: Monitor Class:								
Department: CDCALINE Manufacturer: Model No.: Serial No.: PLC ID #: Lubrication Type:								

Meter Readings

Add	Options					
Tran. ID.	Meter Type	Date Taken	Taken By	Meter Reading	Reset	Meter total
No Records Found.						

PM Schedule

Add	Options	Copy PM Schedule	Learn More				
Produce Calendar Every? Based Freq.	Next PM Date	Brief Description	Last PM Work Order Date	Last PM Work Order No.	Calendar Freq Type	Assign To	Est. Hours
GoTo 6.00 Months		HYD-6M-GLYCOL:HYDRAULIC UNIT 6-MONTH WATER GLYCOL TEST	01/28/2008	84517	Shadow	Maint-1st	0.00
GoTo 3.00 Months	05/11/2019	RTO-3M-HYDCPLG:RTO 3-MONTH HYDRAULIC COUPLING INSPECTION	02/09/2019	460283	Shadow	Maint-2nd	0.00
GoTo 6.00 Months		RTO-6M-HLUB:RTO 6-MONTH HYDRAULIC UNIT LUBE ROUTING	09/01/2008	105522	Shadow	Maint-2nd	0.00
GoTo 1.00 Weeks	04/01/2019	RTO-W-HYD:RTO WEEKLY HYDRAULIC UNIT INSPECTION	03/25/2019	464873	Static	Maint-3rd	0.00
GoTo 3.00 Months	06/18/2019	Hydraulic Unit Oil Sample	03/18/2019	464297	Shadow	Maint-2nd	0.25
GoTo 3.00 Months	04/30/2019	Replace Triple R Oil Filter	01/30/2019	459211	Shadow	Maint-2nd	0.25

Related Parts

Add	Options			
Item	Descrip	Qty	Unitms	Category
GoTo - NON-STOCK PURCHASED PART	ELEC MOTOR STERLING 2 HP 1140RPM	1.00	EA	

Name Plate Information

Add	Options	Import Attributes
Plateid	Descrip	Value
No Records Found.		

Monitoring Points

Options	Add New Class	Delete Class
Monitor Class	Monitor Type	Upper bound
No Records Found.		

Asset Documents

Options

COMPID
No Records Found.

Print with WO

Description

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PM

Edit	Delete	Actions	Options
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Pmid: 1PO0UGZ69 Next PM Date:
 Asset ID: 601504

Work Order Type: PM-LUBE Last PM Work Order Date: 01/28/2008
 PM Group: Last PM Work Order No.: 84517

Calendar Based

Produce Every?: 6
 Calendar Based Freq.: Months
 Calendar Freq Type: Shadow

Meter Based

Produce PM Every: 0
 Occurs Desc.:
 Meter Type: TOTALS
 Daily Average: 0
 Last Meter Reading Entry: 0
 Last Meter Reading Date:
 Last PM Produced At: 0

On Calendar?: True
 Route Sequence:
 Route:
 Assign To Type: Maint Supv
 Assign To: Maint-1st
 Perform For Type: n/a
 Perform For:
 Task No.: 0141

Meter To-Date: 0
 Skip Mondays?: False
 Skip Tuesdays?: False
 Skip Wednesdays?: False
 Skip Thursdays?: False
 Skip Fridays?: True
 Skip Saturdays?: True
 Skip Sundays?: True

Brief Description: HYD-6M-GLYCOL:HYDRAULIC UNIT 6-MONTH WATER GLYCOL TEST
 Detailed Text: GIVE TO PREDICATIVE MAINT.

1. BEFORE YOU WORK ON THIS HYD. UNIT, LOCK-IT-OUT AND HAVE YOUR LOCK-OUT VERIFIED.
2. THIS P.M. IS TO CHECK THE WATER LOSS OF THE HYDRAULIC FLUID.
3. CLEAN TOP OF HYDRAULIC UNIT AND TAKE OIL SAMPLE.
 - A. ONE HINGED TOP UNITS, OPEN TOP AND TAKE SAMPLE OF OIL.
 - B. ON UNITS WITH FILL CAPS, REMOVE CAP AND SCREEN, AND TAKE SAMPLE OF OIL.

PM DEPARTMENT TO DO ITEM 4.

4. WITH A REFLECTIVE TEST KIT, MEASURE WATER LOSS.
 INDICATE ON CHART BELOW WHAT YOUR READING IS BY PLACING AN "X" NEXT TO THE READING.

READING	REFRACTIVE INDEX	WATER
(X)	DEGREE BRIX	MAKE-UP
_____	44.00 - 45.00	NONE
_____	45.00 - 46.25	5
_____	46.25 - 48.50	10
_____	48.50 - 50.25	15
_____	50.25 - 52.25	20

NOTE: WATER MAKE-UP IS GALLONS OF WATER PER 100 GALLONS OF SAFETY FLUID.

IF READING INDICATES ADDING WATER IS NECESSARY, WRITE WORK ORDER.

ONLY DEIONIZED, DISTILLED, OR SOFTENED WATER SHOULD BE ADDED. A QUART OF MORPHOLINE SHOULD BE ADDED TO THE SYSTEM FOR EACH 25 GALLONS OF MAKE-UP WATER ADDED. THE MORPHOLINE ADDITION REPLENISHES THE VAPOR PHASE CORROSION INHIBITION OF THE GLYCOL.

5. CONTAMINATION
 CONTAMINATION OF GLYCOL FLUID IS INDICATED BY A HAZINESS IN THE APPEARANCE OF THE FLUID. CONTAMINATES OF OTHER FLUIDS, OIL, AND MATERIAL WILL FLOAT ON TOP OF GLYCO. SKIM OFF ANY CONTAMINATES ON UNITS WITH HINGED TOPS.

6. REPORT ANY UNUSUAL CONDITIONS TO YOUR SUPERVISOR.

Weblink:

Old_task: HYD-6M-GLYCOL

PM REVISION LOG: 7/30/2008 Deactivated - Test included in T4 oil samples.

Est. Hours: 0

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PM

Edit	Delete	Actions	Options
Pmid: <u>1PO0UH001</u>		Next PM Date: 05/11/2019	
Asset ID: <u>601504</u>			
Work Order Type: PM-INSP		Last PM Work Order Date: 02/09/2019	
PM Group: w/e		Last PM Work Order No.: 460283	
Calendar Based		Meter Based	
Produce Every?: 3		Produce PM Every: 0	
Calendar Based Freq.: Months		Occurs Desc.:	
Calendar Freq Type: Shadow		Meter Type: TOTALS	
		Daily Average: 0	
		Last Meter Reading Entry: 0	
		Last Meter Reading Date:	
		Last PM Produced At: 0	
On Calendar?: True		Meter To-Date: 0	
Route Sequence:		Skip Mondays?: True	
Route:		Skip Tuesdays?: True	
Assign To Type: Maint Supv		Skip Wednesdays?: True	
Assign To: Maint-2nd		Skip Thursdays?: True	
Perform For Type: n/a		Skip Fridays?: True	
Perform For:		Skip Saturdays?: False	
Task No.: 0292		Skip Sundays?: True	
Brief Description: RTO-3M-HYDCPLG:RTO 3-MONTH HYDRAULIC COUPLING INSPECTION			
Detailed Text: BEFORE YOU WORK ON THIS HYDRAULIC UNIT, LOCK-IT-OUT!			
<ol style="list-style-type: none"> 1. COUPLING (REMOVE GUARD) <ol style="list-style-type: none"> A) INSPECT CONDITION OF COUPLING. B) CHECK COUPLING FOR BEING TIGHT ON SHAFT. C) TIGHTEN SET SCREWS ON BOTH HALVES OF COUPLINGS. 2. REPLACE RETURN FILTER ELEMENT FA57-10, B26169P ID# 3594 LOCATION 2J05G01A 3. CHECK LEVEL OF HYD. OIL, FILL WITH FR-46 SAFETY FLUID. 4. REMOVE YOUR LOCK AND START HYD. UNIT, CHECK UNIT FOR HYDRAULIC LEAKS. 5. REPORT UNUSUAL CONDITIONS TO YOUR SUPERVISOR. 			
Weblink:			
Old_task: RTO-3M-HYDCPLG		PM REVISION LOG: 6/24/2008 Corrected filter information. Stores obsoleted Schroeder M10/7M10 filter 410.850.0007. Now have Faireyarlou FA57-10 filter 410.500.0001.	
Est. Hours: 0			

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PM

Edit	Delete	Actions	Options
Pmid: <u>1PO0UH00J</u>		Next PM Date:	
Asset ID: <u>601504</u>			
Work Order Type: PM-LUBE		Last PM Work Order Date: 09/01/2008	
PM Group:		Last PM Work Order No.: 105522	
Calendar Based		Meter Based	
Produce Every?: 6		Produce PM Every: 0	
Calendar Based Freq.: Months		Occurs Desc.:	
Calendar Freq Type: Shadow		Meter Type: TOTALS	
		Daily Average: 0	
		Last Meter Reading Entry: 0	
		Last Meter Reading Date:	
		Last PM Produced At: 0	
On Calendar?: True		Meter To-Date: 0	
Route Sequence:		Skip Mondays?: False	
Route:		Skip Tuesdays?: False	
Assign To Type: Maint Supv		Skip Wednesdays?: False	
Assign To: Maint-2nd		Skip Thursdays?: False	
Perform For Type: n/a		Skip Fridays?: True	
Perform For:		Skip Saturdays?: True	
Task No.: 0291		Skip Sundays?: True	
Brief Description: RTO-6M-HLUB:RTO 6-MONTH HYDRAULIC UNIT LUBE ROUTING			
Detailed Text: BEFORE USING THE FILTERING UNIT, MAKE SURE IT IS READY TO USE WITH THE FLUID YOU WILL BE FILTERING, FR-46 SAFETY FLUID.			
MAKE SURE THAT ALL HOSES AND WANDS ARE CLEAN.			
1. CLEAN OFF THE TOP OF THE OIL RESERVOIR.			
2. CONNECT THE SUCTION AND RETURN LINES TO THE OIL RESERVOIR TANK.			
3. FILTER THE FLUID FOR 1 HOUR.			
4. MONITOR THE FILTER INDICATOR ON THE FILTERING UNIT, WHEN THE INDICATOR SHOWS "RED", CHANGE THE FILTER. USE ONLY A PARKER 928766 FILTER. THIS IS A 10 MICRON BETA 200 90% EFFICIENCY FILTER. IF NONE ARE IN STORES WAIT UNTIL NEW FILTERS COME IN BEFORE COMPLETING PM.			
5. AFTER THE FILTERING PROCESS IS COMPLETE, DISCONNECT THE LINES, CLEAN UP ANY SPILLED FLUID, DISPOSE OF PROPERLY.			
6. OBSERVE THE UNIT FOR ANY OPERATIONAL PROBLEMS.			
7. REPORT ANY UNUSUAL CONDITIONS TO YOUR SUPERVISOR.			
Weblink:			
Old_task: RTO-6M-HLUB		PM REVISION LOG: 11/18/08 Dropped all time based oil filtration PMs. Filtering only as oil analysis indicates need.	
Est. Hours: 0			

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PM

Edit	Delete	Actions	Options
Pmid: <u>1P00UH00K</u>		Next PM Date: 04/01/2019	
Asset ID: <u>601504</u>			
Work Order Type: PM-INSP		Last PM Work Order Date: 03/25/2019	
PM Group:		Last PM Work Order No.: 464873	
Calendar Based		Meter Based	
Produce Every?: 1		Produce PM Every: 0	
Calendar Based Freq.: Weeks		Occurs Desc.:	
Calendar Freq Type: Static		Meter Type: TOTALS	
		Daily Average: 0	
		Last Meter Reading Entry: 0	
		Last Meter Reading Date:	
		Last PM Produced At: 0	
On Calendar?: True		Meter To-Date: 0	
Route Sequence:		Skip Mondays?: False	
Route:		Skip Tuesdays?: False	
Assign To Type: Maint Supv		Skip Wednesdays?: False	
Assign To: Maint-3rd		Skip Thursdays?: False	
Perform For Type: n/a		Skip Fridays?: True	
Perform For:		Skip Saturdays?: True	
Task No.: 0275		Skip Sundays?: True	
Brief Description: RTO-W-HYD:RTO WEEKLY HYDRAULIC UNIT INSPECTION			
Detailed Text: WHILE THIS UNIT IS RUNNING, MAKE THE FOLLOWING INSPECTION.			
<p>1. MOTOR:</p> <p>A) CHECK MOTOR FOR VIBRATION.</p> <p>B) CHECK MOTOR FOR RUNNING HOT.</p> <p>C) TIGHTEN MOUNTING BOLTS.</p> <p>D) LISTEN FOR UNUSUAL NOISE, BEARINGS GOING OUT.</p>			
<p>2. PUMP:</p> <p>A) CHECK PUMP FOR VIBRATION.</p> <p>B) CHECK PUMP FOR RUNNING HOT.</p> <p>C) LISTEN FOR UNUSUAL NOISE AND FOR HYDRAULIC LEAKS.</p> <p>D) TIGHTEN MOUNTING BOLTS.</p>			
<p>3. HYDRAULIC SYSTEM PRESSURE WILL RUN AT APPROXIMATELY 800 PSI, UNTIL IT UNLOADS, THEN PRESSURE SHOULD RUN BETWEEN 600-820 PSI. NO NOT ADJUST. RECORD PRESSURE : _____ PSI</p>			
<p>4. OIL RESERVOIR:</p> <p>A) WIPE DIRT AND EXCESS OIL OFF UNIT.</p> <p>B) CHECK OIL LEVEL, FILL WITH FR-46 SAFETY FLUID, AS REQUIRED.</p>			
<p>5. HYDRAULIC SYSTEM:</p> <p>A) CHECK THE HYDRAULIC TUBING FOR DAMAGE, FOR BENT TUBING.</p> <p>B) CHECK ALL FITTINGS AND PIPING FOR LEAKS. TRY TIGHTENING ANY FITTINGS THAT LEAK.</p>			
<p>6. WATCH THE OPERATION OF THE HYDRAULIC UNIT AND NOTE ANY UNUSUAL NOISE OR OPERATING CONDITIONS, MAKE CORRECTIONS IF POSSIBLE. IF DEFECTS CAN NOT BE CORRECTED, IMMEDIATELY CONTACT YOUR SUPERVISOR.]</p>			
Weblink:			
Old_task: RTO-W-HYD		PM REVISION LOG: 6/9/15 Changed from 1st to 3rd shift. VJK	
		5/8/2017 Changed pressure reading numbers per Ben McLeod. VJK	
Est. Hours: 0			

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PM

Edit	Delete	Actions	Options
Pmid: <u>1ZX0GATS5</u>		Next PM Date: 06/18/2019	
Asset ID: <u>601504</u>			
Work Order Type: <u>PM-PREDICTIV</u>		Last PM Work Order Date: <u>03/18/2019</u>	
PM Group: <u>Oil Sample</u>		Last PM Work Order No.: <u>464297</u>	
Calendar Based		Meter Based	
Produce Every?: <u>3</u>		Produce PM Every: <u>0</u>	
Calendar Based Freq.: <u>Months</u>		Occurs Desc.: <u></u>	
Calendar Freq Type: <u>Shadow</u>		Meter Type: <u>N/A</u>	
		Daily Average: <u>0</u>	
		Last Meter Reading Entry: <u>0</u>	
		Last Meter Reading Date: <u></u>	
		Last PM Produced At: <u>0</u>	
On Calendar?: <u>True</u>		Meter To-Date: <u>0</u>	
Route Sequence: <u></u>		Skip Mondays?: <u>False</u>	
Route: <u></u>		Skip Tuesdays?: <u>False</u>	
Assign To Type: <u>Maint Supv</u>		Skip Wednesdays?: <u>False</u>	
Assign To: <u>Maint-2nd</u>		Skip Thursdays?: <u>False</u>	
Perform For Type: <u>n/a</u>		Skip Fridays?: <u>True</u>	
Perform For: <u></u>		Skip Saturdays?: <u>True</u>	
Task No.: <u>0805</u>		Skip Sundays?: <u>True</u>	
Brief Description: <u>Hydraulic Unit Oil Sample</u>			
Detailed Text: <u>Label sample bottle(s) with the equipment number, date the sample was taken, and oil type.</u>			
<p>With pump and sample bottle, draw sample from unit staying away from the side of tank. Pump should be running to circulate tank.</p> <p>Fill bottle(s) completely.</p> <p>Take completed PM and sample(s) to the PM office.</p> <p>Hydraulic unit oil type - FR-46 Safety Fluid</p>			
Weblink: <u></u>		PM REVISION LOG: <u>1/20/2007 New</u>	
Old task: <u></u>			
Est. Hours: <u>0.25</u>			

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Edit	Delete	Actions	Options
Pmid: 3310GN794		Next PM Date: 04/30/2019	
Asset ID: 601504			
Work Order Type: PM-CO		Last PM Work Order Date: 01/30/2019	
PM Group:		Last PM Work Order No.: 459211	
Calendar Based		Meter Based	
Produce Every?: 3		Produce PM Every: 0	
Calendar Based Freq.: Months		Occurs Desc.:	
Calendar Freq Type: Shadow		Meter Type: N/A	
		Daily Average: 0	
		Last Meter Reading Entry: 0	
		Last Meter Reading Date:	
		Last PM Produced At: 0	
On Calendar?: False		Meter To-Date: 0	
Route Sequence:		Skip Mondays?: False	
Route:		Skip Tuesdays?: False	
Assign To Type: Maint Supv		Skip Wednesdays?: False	
Assign To: Maint-2nd		Skip Thursdays?: False	
Perform For Type: n/a		Skip Fridays?: True	
Perform For:		Skip Saturdays?: True	
Task No.: 0928		Skip Sundays?: True	
Brief Description: Replace Triple R Oil Filter			
Detailed Text: 1. Turn off the flow control valve going to the Triple R oil filter housing. Look at the pressure gauge to make sure there is no trapped pressure.			
2. Take the lid off of the housing, being careful not to lose the seal. Use the straps to pull up the old filter(s). Some hydraulic oil may spill out. Wipe out any contaminates from the housing.			
3. Take the replacement filter(s), out of the plastic (be careful not to touch the top of the element) and remove the supplied plastic bag from the center. Place the new filter in the housing with the strapped side up. Take the supplied plastic bag, and place the old filter and any trash in it.			
4. Wipe off the seal and fit it on the top of the housing. Place the lid on top of the housing, be sure the seal is seated properly in the lid and tighten down.			
5. Open the flow control valve so that is fully opened.			
NOTE: AFTER CHANGING THE FILTER IT IS COMMON FOR THE PRESSURE GAUGE TO BE IN RED FOR A FEW HOURS UNTIL THE ELEMENT BECOMES COMPLETELY SATURATED.			
Parts: Qty (1) - Triple R filter element, Part# 25470, Type WG100, Filter has YELLOW ring. ID#8222, LOC. 2J06H01A			
Weblink:		PM REVISION LOG: 12/10/10 New	
Old_task:			
Est. Hours: 0.25			

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Assets

Add	Edit	Delete	List	<<	GoTo	>>	Actions	Options
Asset ID: 601505 Asset Description: RTO MANIFOLD, INLET & OUTLET DAMPERS Asset Type Description: Type: A Criticality: EQ-A Out of Service: False Out of Service Date: Weblink: Comments: Monitor Class:								
Department: CDCALINE Manufacturer: Model No.: Serial No.: PLC ID #: Lubrication Type:								

Meter Readings

Add	Options					
Tran. ID.	Meter Type	Date Taken	Taken By	Meter Reading	Reset	Meter total
No Records Found.						

PM Schedule

Add	Options	Copy PM Schedule	Learn More						
GoTo	Produce Every?	Calendar Based Freq.	Next PM Date	Brief Description	Last PM Work Order Date	Last PM Work Order No.	Calendar Freq	Assign To	Est. Hours
GoTo	3.00	Months	06/22/2019	RTO-3M-DCTINSP:RTO PROCESS DUCT/INLET/OUTLET MANIFOLD INSPECTION	03/23/2019	464775	Shadow	Maint-2nd	1.00
GoTo	3.00	Months	04/17/2019	RTO-3M-DLUB:"RTO MANIFOLD, INLET & OUTLET DAMPER LUBE ROUTING"	01/07/2019	456724	Shadow	Maint-3rd	0.00
GoTo	6.00	Months	04/13/2019	RTO-6M-INTINSP:RTO ANNUAL INTERNAL DUCT/MANIFOLD/COLD FACE INSPECTION	10/13/2018	448546	Static	Maint-2nd	0.00
GoTo	1.00	Weeks	04/01/2019	RTO-W-WKLYINSP:RTO WEEKLY INSPECTION	03/25/2019	464984	Static	Maint-2nd	0.00

Related Parts

Add	Options			
Item	Descrip	Qty	Units	Category
No Records Found.				

Name Plate Information

Add	Options	Import Attributes
Plateid	Descrip	Value
No Records Found.		

Monitoring Points

Options	Add New Class	Delete Class
Monitor Class	Monitor Type	Upper bound
No Records Found.		

Asset Documents

Options		
COMPID	Print with WO	Description
No Records Found.		

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PM

Edit	Delete	Actions	Options
Pmid: 1P00UH00L		Next PM Date: 06/22/2019	
Asset ID: <u>601505</u>			
Work Order Type: PM-INSP		Last PM Work Order Date: 03/23/2019	
PM Group: MDNRE-w/e		Last PM Work Order No.: 464775	
Calendar Based		Meter Based	
Produce Every?: 3		Produce PM Every: 0	
Calendar Based Freq.: Months		Occurs Desc.:	
Calendar Freq Type: Shadow		Meter Type: TOTALS	
		Daily Average: 0	
		Last Meter Reading Entry: 0	
		Last Meter Reading Date:	
		Last PM Produced At: 0	
On Calendar?: True		Meter To-Date: 0	
Route Sequence:		Skip Mondays?: True	
Route:		Skip Tuesdays?: True	
Assign To Type: Maint Supv		Skip Wednesdays?: True	
Assign To: Maint-2nd		Skip Thursdays?: True	
Perform For Type: n/a		Skip Fridays?: True	
Perform For:		Skip Saturdays?: False	
Task No.: 0333		Skip Sundays?: True	
Brief Description: RTO-3M-DCTINSP:RTO PROCESS DUCT/INLET/OUTLET MANIFOLD INSPECTION			
Detailed Text: *****			
THIS PM IS LINKED TO MDNRE REGULATORY REQUIREMENTS !			
1. ALL RECORDS OF THIS PM ARE TO BE RETAINED FOR 5 YEARS.			
2. NOTIFY HSE MANAGER OF ANY DEVIATIONS.			

NOTE: A CONFINED SPACE ENTRY PERMIT IS REQUIRED BEFORE YOU PERFORM THE FIRST PART OF THIS P.M.			
1. ENTER THE SMOKE HOUSE AND INSPECT THE EAST WALL OF THE SMOKE HOUSE.			
A) LOWER LEVEL - CHECK WALL FOR CREOSOTE BUILDUP:			
LIGHT _____ MEDIUM _____ HEAVY _____ NONE _____			
B) UPPER LEVEL - CHECK WALL FOR CREOSOTE BUILDUP:			
LIGHT _____ MEDIUM _____ HEAVY _____ NONE _____			
2. PROCESS DUCT #601506			
A) CHECK INSULATION AND COVER FOR DAMAGE, LOOSENESS, AND FOR FALLING OFF DUCT.			
B) CHECK DUCT ON TOP OF SMOKE HOUSE.			
C) CHECK OUTSIDE HORIZONTAL AND VERTICAL PROCESS DUCT ON ROOF.			
D) CHECK ALL DUCT FOR ANY HOLES OR OTHER DAMAGE.			
3. INLET AND OUTLET CHAMBER			
CHECK INSULATION AND COVER FOR DAMAGE, LOOSENESS, AND FOR FALLING OFF DUCT.			
4. REPORT UNUSUAL CONDITIONS TO YOUR SUPERVISOR.			
Weblink:		PM REVISION LOG:	
Old_task: RTO-3M-DCTINSP			
Est. Hours: 1			

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Edit	Delete	Actions	Options
Pmid: <u>1P00UH00M</u>		Next PM Date: 04/17/2019	
Asset ID: <u>601505</u>			
Work Order Type: <u>PM-LUBE</u>		Last PM Work Order Date: <u>01/07/2019</u>	
PM Group:		Last PM Work Order No.: <u>456724</u>	
Calendar Based		Meter Based	
Produce Every?: <u>3</u>		Produce PM Every: <u>0</u>	
Calendar Based Freq.: <u>Months</u>		Occurs Desc.:	
Calendar Freq Type: <u>Shadow</u>		Meter Type: <u>TOTALS</u>	
		Daily Average: <u>0</u>	
		Last Meter Reading Entry: <u>0</u>	
		Last Meter Reading Date:	
		Last PM Produced At: <u>0</u>	
On Calendar?: <u>True</u>		Meter To-Date: <u>0</u>	
Route Sequence:		Skip Mondays?: <u>False</u>	
Route:		Skip Tuesdays?: <u>False</u>	
Assign To Type: <u>Maint Supv</u>		Skip Wednesdays?: <u>False</u>	
Assign To: <u>Maint-3rd</u>		Skip Thursdays?: <u>False</u>	
Perform For Type: <u>n/a</u>		Skip Fridays?: <u>True</u>	
Perform For:		Skip Saturdays?: <u>True</u>	
Task No.: <u>0289</u>		Skip Sundays?: <u>True</u>	
Brief Description: <u>RTO-3M-DLUB:"RTO MANIFOLD, INLET & OUTLET DAMPER LUBE ROUTING"</u>			
Detailed Text: <u>WHILE THE RTO IS IN OPERATION, LUBRICATE THE FOLLOWING BEARINGS.</u>			
1. INLET MANIFOLD DAMPERS (SOUTH):			
A) GREASE TWO (2) FLANGE BEARINGS PER DAMPER - STARPLEX-2 GREASE, USE HAND GUN ONLY.			
NO-1	DAMPER	TAG NO. 1-FCV-408	_____
NO-2	DAMPER	TAG NO. 1-FCV-409	_____
NO-3	DAMPER	TAG NO. 1-FCV-410	_____
NO-4	DAMPER	TAG NO. 1-FCV-411	_____
NO-5	DAMPER	TAG NO. 1-FCV-412	_____
2. OUTLET MANIFOLD DAMPERS (NORTH):			
A) GREASE TWO (2) FLANGE BEARINGS PER DAMPER - STARPLEX-2 GREASE, USE HAND GUN ONLY.			
NO-1	DAMPER	TAG NO. 1-FCV-417	_____
NO-2	DAMPER	TAG NO. 1-FCV-418	_____
NO-3	DAMPER	TAG NO. 1-FCV-419	_____
NO-4	DAMPER	TAG NO. 1-FCV-420	_____
NO-5	DAMPER	TAG NO. 1-FCV-421	_____
3. REPORT UNUSUAL CONDITIONS TO YOUR SUPERVISOR.]			
Weblink:			
Old_task: <u>RTO-3M-DLUB</u>		PM REVISION LOG: <u>7/26/15</u> Changed from 1st shift to 3rd shift. VJK	
Est. Hours: <u>0</u>			

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Pmid: <u>1P00UH00N</u>		Next PM Date: 04/13/2019	
Asset ID: <u>601505</u>			
Work Order Type: PM-INSP		Last PM Work Order Date: 10/13/2018	
PM Group: w/e		Last PM Work Order No.: 448546	
Calendar Based		Meter Based	
Produce Every?: 6		Produce PM Every: 0	
Calendar Based Freq.: Months		Occurs Desc.:	
Calendar Freq Type: Static		Meter Type: TOTALS	
		Daily Average: 0	
		Last Meter Reading Entry: 0	
		Last Meter Reading Date:	
		Last PM Produced At: 0	
On Calendar?: True		Meter To-Date: 0	
Route Sequence:		Skip Mondays?: True	
Route:		Skip Tuesdays?: True	
Assign To Type: Maint Supv		Skip Wednesdays?: True	
Assign To: Maint-2nd		Skip Thursdays?: True	
Perform For Type: n/a		Skip Fridays?: True	
Perform For:		Skip Saturdays?: False	
Task No.: 0332		Skip Sundays?: True	
Brief Description: RTO-6M-INTINSP:RTO ANNUAL INTERNAL DUCT/MANIFOLD/COLD FACE INSPECTION			
Detailed Text: WHILE THE RTO SYSTEM IS DOWN AND COOLED OFF, MAKE THE FOLLOWING INSPECTION.			
<ol style="list-style-type: none"> 1. PROCESS DUCT - REMOVE THE INSPECTION DOOR ON ROOF DUCT. <ol style="list-style-type: none"> A) INSPECT INSIDE OF DUCT FOR SAND BUILDUP. B) INSPECT DUCT FOR CREOSOTE BUILDUP. C) REINSTALL DOOR. 2. MANIFOLD INLET - REMOVE INSPECTION DOOR ON SOUTH WEST SIDE. <ol style="list-style-type: none"> A) INSPECT INSIDE FOR SAND BUILDUP. B) INSPECT FOR CREOSOTE BUILDUP. C) REINSTALL DOOR. 3. MANIFOLD OUTLET - REMOVE INSPECTION DOOR ON EAST END. <ol style="list-style-type: none"> A) INSPECT INSIDE FOR SAND BUILDUP. B) INSPECT FOR CREOSOTE BUILDUP. 4. PURIFICATION CHAMBER – OPEN FIVE (5) INSPECTION DOORS ON NORTH SIDE. <p>CHAMBER # 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/></p> <ol style="list-style-type: none"> A) CHECK INSULATION AND INSULATION COVER ON DOORS FOR DAMAGE. B) CHECK FLOOR INSULATION FOR DAMAGE. C) CHECK FLOOR FOR BUILDUP OF CERAMIC MEDIA MATERIAL. D) CHECK COLD FACE ASSEMBLY AND BONNETS FOR DAMAGE, FOR BROKEN WELDS, BENT SUPPORTS AND FOR WARPAGE. E) REINSTALL DOORS. 5. REPORT UNUSUAL CONDITIONS TO YOUR SUPERVISOR. 6. SUPERVISOR TO SCHEDULE CORRECTIVE ACTIONS FOR SUMMER SHUTDOWN. 			
Weblink:			
Old_task: RTO-3M-INTINSP		PM REVISION LOG: 3/9/16 Set to fixed PM, so is done around Easter, and repairs can be scheduled for the summer shutdown, per Brooks Lucas. VJK	
Est. Hours: 0			

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PM

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Pmid: 1PO0UH000 Next PM Date: 04/01/2019
 Asset ID: 601505

Work Order Type: PM-INSP Last PM Work Order Date: 03/25/2019
 PM Group: MDNRE Last PM Work Order No.: 464984

Calendar Based

Produce Every?: 1
 Calendar Based Freq.: Weeks
 Calendar Freq Type: Static

Meter Based

Produce PM Every: 0
 Occurs Desc.:
 Meter Type: TOTALS
 Daily Average: 0
 Last Meter Reading Entry: 0
 Last Meter Reading Date:
 Last PM Produced At: 0

On Calendar?: True
 Route Sequence:
 Route:
 Assign To Type: Maint Supv
 Assign To: Maint-2nd
 Perform For Type: n/a
 Perform For:
 Task No.: 0311

Meter To-Date: 0
 Skip Mondays?: False
 Skip Tuesdays?: True
 Skip Wednesdays?: True
 Skip Thursdays?: True
 Skip Fridays?: True
 Skip Saturdays?: True
 Skip Sundays?: True

Brief Description: RTO-W-WKLYINSP:RTO WEEKLY INSPECTION

Detailed Text: *****

THIS PM IS LINKED TO MDNRE REGULATORY REQUIREMENTS !
 1. ALL RECORDS OF THIS PM ARE TO BE RETAINED FOR 5 YEARS.
 2. NOTIFY HSE MANAGER OF ANY DEVIATIONS.

WHILE THE RTO IS IN OPERATION, MAKE THE FOLLWOING INSPECTIONS.

- 601505 - MANIFOLD INLET/OUTLET DAMPERS:
 - WATCH OPERATION OF EACH DAMPER, LOOK FOR BINDING OR JERKING ACTION WHILE OPENING AND CLOSING.
 - CHECK PROX-SWITCH AND ACTUATOR FOR DAMAGE. CHECK PROX. CABLE FOR DAMAGE.
 - CHECK THE FILTER BOWL ON EACH DAMPER ACTUATOR, IF OIL IS PRESENT, THE HYDRAULIC ACTUATOR IS LEAKING BY.
 - INSPECT HYDRAULIC TUBING FOR DAMAGE, LEAKS, LOOSE HANGERS, AND MOUNTING BRACKETS.
 INLET DAMPERS 1 ____ 2 ____ 3 ____ 4 ____ 5 ____
 OUTLET DAMPERS 1 ____ 2 ____ 3 ____ 4 ____ 5 ____
 - INLET MANIFOLD - ON THE S-W SIDE VISUALLY INSPECT THE THERMOCOUPLE FOR DAMAGE, INSPECT SEALTITE FOR DAMAGE. RECORD THE PDI - MAGNEHELIC READING ____ INCHES W.C. SHOULD BE 2.5 TO 3.5 INCHES W.C.
 - OUTLET MANIFOLD - ON THE N-E SIDE VISUALLY INSPECT THE THERMOCOUPLE FOR DAMAGE, INSPECT SEALTITE FOR DAMAGE. RECORD THE PDI - MAGNEHELIC READING ____ INCHES W.C. SHOULD BE 15 TO 16 INCHES W.C.
- 601508 - COMBUSTION BLOWER
 RECORD PRESSURE READING FROM GAUGE LOCATED ON COLUMN NORTH OF BLOWER ____ IN. W.C SHOULD BE 29 IN. W.C.
- MAIN GAS TRAIN - RECORD GAS PRESSURE ____ PSI SHOULD BE 1.1 PSI.
- BURNER NO. 1 EAST: BURNER PDI (MAGNEHELIC) READINGS:
 - RECORD EAST GAS ORIFICE PDI ____ IN W.C. PDI WILL FLUCTUATE FROM .02 IN W.C. TO 4.5 IN W.C.
 - RECORD EAST COMB/CHAMBER AIR PDI ____ IN W.C. PDI WILL FLUCTUATE FROM .2 IN W.C. TO 35 IN W.C.
- BURNER NO. 2 WEST: BURNER PDI (MAGNEHELIC) READINGS:
 - RECORD WEST GAS ORIFICE PDI ____ IN W.C. PDI WILL FLUCTUATE FROM .02 IN W.C. TO 4.5 IN W.C.
 - RECORD WEST COMB/CHAMBER AIR PDI ____ IN W.C. PDI WILL FLUCTUATE FROM .2 IN W.C. TO 35 IN W.C.
- OBSERVATION PORTS (LOCATED ON N-SIDE OF EAST INSPECTION DOOR):
 - LOOK THROUGH TOP PORT. OBSERVE FLAME ON #1 AND #2 BURNERS. SHOULD BE BLUE AND EXTEND ABOUT 2'.

B) CHECK INSULATION ON SOUTH WALL FOR DAMAGE, FOR GAPS AND FOR FALLEN INSULATION.
C) LOOK THROUGH BOTTOM PORT. CHECK NORTH WALL FOR DAMAGE, FOR GAPS, AND FOR FALLEN INSUALTION.

7. VISUALLY INSPECT THE ENTIRE UNIT FOR ANY OTHER POSSIBLE DAMAGE.]

Weblink:

Old_task: RTO-W-WKLYINSP

PM REVISION LOG: 6/9/15 Changed from 1st to 2nd shift. VJK

Est. Hours: 0

Copyright 2019

Home	Navigation	Assets	Work Orders	Contacts	Reports	Parts
Condition Monitoring		PM Center	Dashboard			

Assets

Add	Edit	Delete	List	<<	GoTo	>>	Actions	Options
Asset ID: 601506								
Asset Description: RTO PROCESS DUCT								
Asset Type Description:				Department: CDCALINE				
Type: A				Manufacturer:				
Criticality: EQ-A				Model No.:				
Out of Service: False				Serial No.:				
Out of Service Date:				PLC ID #:				
Weblink:				Lubrication Type:				
Comments:								
Monitor Class:								

Meter Readings

Add	Options					
Tran. ID.	Meter Type	Date Taken	Taken By	Meter Reading	Reset	Meter total
No Records Found.						

PM Schedule

Add	Options	Copy PM Schedule	Learn More				
Produce Calendar Every? Based Freq.	Next PM Date	Brief Description	Last PM Work Order Date	Last PM Work Order No.	Calendar Freq Type	Assign To	Est. Hours
GoTo 24.00 Weeks	06/08/2019	RTO-DUCTCLN:RTO DUCT CLEANING	12/22/2018	455822	Shadow	Maint-2nd	8.00
GoTo 24.00 Weeks	06/08/2019	RTO-1M-SPRKLR:RTO 1-MONTH SPRINKLER HEAD INSPECTION	12/22/2018	455823	Shadow	Maint-2nd	2.00
GoTo 3.00 Months	06/13/2019	RTO-3M-EXPJNT:RTO 3-MONTH EXPANSION JOINT INSPECTION	03/13/2019	463763	Shadow	Maint-2nd	0.00

Related Parts

Add	Options			
Item	Descrip	Qty	Unitms	Category
No Records Found.				

Name Plate Information

Add	Options	Import Attributes
Plateid	Descrip	Value
No Records Found.		

Monitoring Points

Options	Add New Class	Delete Class
Monitor Class	Monitor Type	Upper bound
No Records Found.		

Asset Documents

Options		
COMPID	Print with WO	Description
No Records Found.		

Home	Navigation	Assets	Work Orders	Contacts	Reports	Parts
Condition Monitoring		PM Center	Dashboard			

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PM

Edit	Delete	Actions	Options
------	--------	---------	---------

Pmid: 1PO0UH00P Next PM Date: 06/08/2019
 Asset ID: 601506

Work Order Type: PM-INSP Last PM Work Order Date: 12/22/2018
 PM Group: w/e Last PM Work Order No.: 455822

Calendar Based

Produce Every?: 24
 Calendar Based Freq.: Weeks
 Calendar Freq Type: Shadow

Meter Based

Produce PM Every: 0
 Occurs Desc.:
 Meter Type: TOTALS
 Daily Average: 0
 Last Meter Reading Entry: 0
 Last Meter Reading Date:
 Last PM Produced At: 0

On Calendar?: True
 Route Sequence:
 Route:
 Assign To Type: Maint Supv
 Assign To: Maint-2nd
 Perform For Type: n/a
 Perform For:
 Task No.: 0287

Meter To-Date: 0
 Skip Mondays?: True
 Skip Tuesdays?: True
 Skip Wednesdays?: True
 Skip Thursdays?: True
 Skip Fridays?: True
 Skip Saturdays?: False
 Skip Sundays?: True

Brief Description: RTO-DUCTCLN:RTO DUCT CLEANING

Detailed Text: 1. LOCK-OUT PROCEDURE A. CHECK WITH THE MAINTENANCE SUPERVISOR BEFORE STARTING THIS PM.

SUPERVISOR _____ DATE AND TIME _____ B. VERIFY THAT THE RTO IS SHUTDOWN. IF NOT, SEE SUPERVISOR. C. LOCK-OUT FAN AND RTO CONTROLS.

2. RESPIRATION CERTIFICATION REQUIRED TO CLEAN DUCT. 3. Materials needed: 1) Power washer with available water heat and flat pattern spray nozzle 2) 10 - 15 gallons of caustic cleaner 3) Stainless steel chemical spray container 4) Large chemical resistant funnel 5) Manlift

4. Safety PPE equipment required 1) Safety glasses 2) Plastic face shield 3) Portable safety lighting 4) Hardhat w/ mounted flashlight 5) Radio 6) Rubber gloves 7) Rubber boots 8) TVEC suit

5. MAIN DUCT A. OPEN ALL ACCESS DOORS. CHECK FOR PROPER LATCH OPERATION. REPAIR AS NEEDED. B. REMOVE DRAIN CAPS. C. INSTALL DRAIN LINES AND HOPPERS. D. STARTING AT S-W END OF MAIN DUCT, APPLY A LIBERAL AMOUNT OF CAUSTIC CLEANER TO THE INSIDE SURFACE OF THE DUCT. E. ALLOW THE CHEMICAL TO PENETRATE THE CREOSOTE FOR 15-20 MINUTES DEPENDING ON THE CREOSOTE THICKNESS. F. USING THE STEAM CLEANER WASH DOWN THE INSIDE OF THE ENTIRE MAIN DUCT. G. TAKE ALL DRAINED OFF CLEANING SOLUTION TO THE WWT DEPARTMENT AND DUMP IN TRUCK BAY.

6. TRUNK LINES/DROPS (SMALL DUCTWORK) A. OPEN ALL ACCESS DOORS. B. APPLY A LIBERAL AMOUNT OF CAUSTIC CLEANER TO THE INSIDE SURFACE OF DUCT. C. ALLOW THE CHEMICAL TO PENETRATE THE CREOSOTE FOR 15-20 MINUTES DEPENDING ON THE THICKNESS OF THE CREOSOTE. D. USING STEAM CLEANER, WASH DOWN THE INSIDE OF THE ENTIRE DUCT ON ALL TRUNKS AND DROPS. E. PUSH EXCESS WATER/CLEANER TOWARD THE DRAIN LINES.

7. POURING HOOD A. REMOVE ACCESS COVERS ON WEST SIDE OF HOODS. B. CLEAN ABOVE AND BELOW ACCESS DOORS ON INSIDE OF HOODS, MAKING SURE TO REMOVE ALL CREOSOTE. NOTE ANY WARPED OR BENT FIN OR DUCTWORK. C. ALLOW TO DRY FOR 30 MINUTES. D. REPLACE ACCESS DOORS, MAKING SURE DOOR SEALS ARE INTACT. E. NOTIFY MAINTENANCE SUPERVISOR OF ANY UNUSUAL CONDITIONS.

8. NOTE: IF ANY BLAST GATES WERE MOVED DURING THE CLEANING PROCESS, RETURN THEM TO THERE ORIGINAL POSITIONS.

9. CLOSE ALL ACCESS DOORS AND CHECK FOR PROPER LATCH OPERATION. REPAIR AS NEEDED.

10. CLOSE ALL DRAIN LINES.

11. CLEAN ANY WATER THAT ACCUMULATES ON FLOOR.

12. WHEN JOB IS COMPLETED, ALL SUPPLIES AND EQUIPMENT ARE TO BE CLEANED AND PUT IN THERE PROPER STORAGE SPACE.

13. ALL WASTE WATER AND MATERIAL ARE TO BE TAKEN TO WWT.

14. IF FOR SOME REASON THIS JOB IS UNABLE TO BE PERFORMED OR COMPLETED, THE PLANT HSE SPECIALIST AND MAINTENANCE MANAGER ARE TO BE NOTIFIED.

15. REPORT ANY UNUSUAL PROBLEMS YOU MAY HAVE HAD WITH THIS PM TO YOUR SUPERVISOR.

16. SIGNOFF: SUPERVISOR INSPECTION AND SIGNOFF ARE NEEDED TO COMPLETE THIS TASK.

A. DUCT CLEANED BY: _____

B. SUPERVISOR INSPECTION: ADEQUATE _____ INADEQUATE: _____

DATE: _____

Weblink:

RTO-1M-
DUCTCLN

PM REVISION LOG: 11/7/08 Changed frequency from 4 weeks to 2 months.
5/22/13 Changed frequency from 2 months to 1 month. Per B Lucas. VJK
9/1/14 Changed frequency from 1 month back to 8 wks. Per B Lucas VJK
3/17/15 Changed number of people from 3 to 1. One person has been cleaning this way for a while per Ben McLeod. VJK
7/19/17 Changed from 8wks to 24 wks per Ben McLeod. Hardly running anymore. VJK

Old_task:

Est. Hours: 8

Home	Navigation	Assets	Work Orders	Contacts	Reports	Parts
Condition Monitoring		PM Center	Dashboard			

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PM

Edit	Delete	Actions	Options
Pmid: <u>1PO0UH00Q</u>		Next PM Date: 06/08/2019	
Asset ID: <u>601506</u>			
Work Order Type: <u>PM-INSP</u>		Last PM Work Order Date: <u>12/22/2018</u>	
PM Group: <u>w/e</u>		Last PM Work Order No.: <u>455823</u>	
Calendar Based		Meter Based	
Produce Every?: <u>24</u>		Produce PM Every: <u>0</u>	
Calendar Based Freq.: <u>Weeks</u>		Occurs Desc.: _____	
Calendar Freq Type: <u>Shadow</u>		Meter Type: <u>TOTALS</u>	
		Daily Average: <u>0</u>	
		Last Meter Reading Entry: <u>0</u>	
		Last Meter Reading Date: _____	
		Last PM Produced At: <u>0</u>	
On Calendar?: <u>True</u>		Meter To-Date: <u>0</u>	
Route Sequence: _____		Skip Mondays?: <u>True</u>	
Route: _____		Skip Tuesdays?: <u>True</u>	
Assign To Type: <u>Maint Supp</u>		Skip Wednesdays?: <u>True</u>	
Assign To: <u>Maint-2nd</u>		Skip Thursdays?: <u>True</u>	
Perform For Type: <u>n/a</u>		Skip Fridays?: <u>True</u>	
Perform For: _____		Skip Saturdays?: <u>False</u>	
Task No.: <u>0290</u>		Skip Sundays?: <u>True</u>	
Brief Description: <u>RTO-1M-SPRKL:RTO 1-MONTH SPRINKLER HEAD INSPECTION</u>			
Detailed Text: <u>1. BEFORE YOU WORK ON THIS PM</u>			
<u>A) LOCK OUT THE RTO EXHAUST BLOWER.</u>			
<u>B) SHUT OFF FIRE PROTECTION RISER AND DRAIN THE SYSTEM.</u>			
<u>2. SPRINKLER HEAD INSPECTION</u>			
<u>A) AFTER THE DUCT/SMOKEHOUSE HAS BEEN CLEANED.</u>			
<u>1. INSPECT ALL SPRINKLER HEADS IN MAIN DUCT AND POURING DUCT.</u>			
<u>2. REPLACE ANY HEAD THAT YOU CAN NOT SEE THE GLASS. USE THE CORRECT SPRINKLER HEAD FOR THE AREA BEING DONE.</u>			
MAIN DUCT - 360 DEGREE (PURPLE) HEADS 4A03H08A / ID# 4415			
POURING DUCT - 286 DEGREE (BLUE) HEADS 4A03H05A / ID# 4413			
<u>3. RESET FIRE PROTECTION RISER. RISER RESET BY: _____ DATE: _____</u>			
Weblink: _____		PM REVISION LOG: <u>11/7/08 Changed frequency from 4-weeks to 2-months.</u>	
RTO-1M-SPRKL		<u>?? Changed frequency to monthly.</u>	
Old_task: _____		<u>3/17/15 Changed frequency from monthly to 8 weeks per Ben McLeod. VJK</u>	
		<u>7/19/17 Changed from 8wks to 24wks per Ben McLeod. Hardly running anymore. VJK</u>	
Est. Hours: <u>2</u>			

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Condition Monitoring		PM Center	Dashboard			

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PM

Edit	Delete	Actions	Options			
Pmid: <u>1PO0UH00R</u>		Next PM Date: 06/13/2019				
Asset ID: <u>601506</u>						
Work Order Type: <u>PM-INSP</u>		Last PM Work Order Date: <u>03/13/2019</u>				
PM Group:		Last PM Work Order No.: <u>463763</u>				
Calendar Based			Meter Based			
Produce Every?: <u>3</u>			Produce PM Every: <u>0</u>			
Calendar Based Freq.: <u>Months</u>			Occurs Desc.:			
Calendar Freq Type: <u>Shadow</u>			Meter Type: <u>TOTALS</u>			
			Daily Average: <u>0</u>			
			Last Meter Reading Entry: <u>0</u>			
			Last Meter Reading Date:			
			Last PM Produced At: <u>0</u>			
On Calendar?: <u>True</u>			Meter To-Date: <u>0</u>			
Route Sequence:			Skip Mondays?: <u>False</u>			
Route:			Skip Tuesdays?: <u>False</u>			
Assign To Type: <u>Maint Supv</u>			Skip Wednesdays?: <u>False</u>			
Assign To: <u>Maint-2nd</u>			Skip Thursdays?: <u>False</u>			
Perform For Type: <u>n/a</u>			Skip Fridays?: <u>True</u>			
Perform For:			Skip Saturdays?: <u>True</u>			
Task No.: <u>0288</u>			Skip Sundays?: <u>True</u>			
Brief Description: <u>RTO-3M-EXPJNT:RTO 3-MONTH EXPANSION JOINT INSPECTION</u>						
Detailed Text: <u>WHILE THE RTO IS IN OPERATION, MAKE THE EXPANSION JOINT INSPECTIONS.</u>						
<ol style="list-style-type: none"> 1. INSPECT ALL EXPANSION JOINTS FOR: <ol style="list-style-type: none"> A) CHECK FOR WEAR. B) CHECK FOR HOLES. C) CHECK FOR BEING BRITTLE AND FOR SIGNS OF DETERIORATION. D) CHECK FOR LOOSE AND OR MISSING BOLTS. 2. INSPECT THE FOLLOWING EXPANSION JOINTS: <ol style="list-style-type: none"> A) INLET MANIFOLD (SOUTH SIDE) B) OUTLET MANIFOLD (NORTH SIDE) C) INLET TO EXHAUST FAN D) OUTLET EXHAUST STACK 3. REPORT UNUSUAL CONDITIONS TO YOUR SUPERVISOR. 						
Weblink:			PM REVISION LOG:			
Old_task: <u>RTO-3M-EXPJNT</u>						
Est. Hours: <u>0</u>						

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Assets

Add	Edit	Delete	List	<<	GoTo	>>	Actions	Options
Asset ID: 601507								
Asset Description: RTO DAMPER/PROCESS/STACK/RECIR/FRESH AIR								
Asset Type Description:				Department: CDCALINE				
Type: A				Manufacturer:				
Criticality: EQ-A				Model No.:				
Out of Service: False				Serial No.:				
Out of Service Date:				PLC ID #:				
Weblink:				Lubrication Type:				
Comments:								
Monitor Class:								

Meter Readings

Add	Options					
Tran. ID.	Meter Type	Date Taken	Taken By	Meter Reading	Reset	Meter total
No Records Found.						

PM Schedule

Add	Options	Copy PM Schedule	Learn More					
Produce Every?	Calendar Based Freq.	Next PM Date	Brief Description	Last PM Work Order Date	Last PM Work Order No.	Calendar Freq Type	Assign To	Est. Hours
GoTo	3.00 Months	06/03/2019	RTO-3M-LUB:RTO DAMPER/PROCESS/STACK/RECIR/FRESH AIR LUBE ROUTING	02/28/2019	462346	Shadow	Maint-3rd	0.00

Related Parts

Add	Options			
Item	Descrip	Qty	Unitms	Category
No Records Found.				

Name Plate Information

Add	Options	Import Attributes
Plateid	Descrip	Value
No Records Found.		

Monitoring Points

Options	Add New Class	Delete Class
Monitor Class	Monitor Type	Upper bound
No Records Found.		

Asset Documents

Options		
COMPID	Print with WO	Description
No Records Found.		

Home	Navigation	Assets	Work Orders	Contacts	Reports	Parts
Condition Monitoring		PM Center	Dashboard			

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PM

Edit	Delete	Actions	Options
Pmid: <u>1PO0UH00S</u>		Next PM Date: <u>06/03/2019</u>	
Asset ID: <u>601507</u>			
Work Order Type: <u>PM-LUBE</u>		Last PM Work Order Date: <u>02/28/2019</u>	
PM Group:		Last PM Work Order No.: <u>462346</u>	
Calendar Based		Meter Based	
Produce Every?: <u>3</u>		Produce PM Every: <u>0</u>	
Calendar Based Freq.: <u>Months</u>		Occurs Desc.:	
Calendar Freq Type: <u>Shadow</u>		Meter Type: <u>TOTALS</u>	
		Daily Average: <u>0</u>	
		Last Meter Reading Entry: <u>0</u>	
		Last Meter Reading Date:	
		Last PM Produced At: <u>0</u>	
On Calendar?: <u>True</u>		Meter To-Date: <u>0</u>	
Route Sequence:		Skip Mondays?: <u>False</u>	
Route:		Skip Tuesdays?: <u>False</u>	
Assign To Type: <u>Maint Supv</u>		Skip Wednesdays?: <u>False</u>	
Assign To: <u>Maint-3rd</u>		Skip Thursdays?: <u>False</u>	
Perform For Type: <u>n/a</u>		Skip Fridays?: <u>True</u>	
Perform For:		Skip Saturdays?: <u>True</u>	
Task No.: <u>0280</u>		Skip Sundays?: <u>True</u>	
Brief Description: <u>RTO-3M-LUB:RTO DAMPER/PROCESS/STACK/RECIR/FRESH AIR LUBE ROUTING</u>			
Detailed Text: <u>WHILE THE RTO IS IN OPERATION, LUBRICATE THE FOLLOWING DAMPER BEARINGS.</u>			
<ol style="list-style-type: none"> 1. PROCESS INLET DAMPER - TAG NO. 1-FCV-404 - INLET MANIFOLD (WEST END) A) GREASE TWO (2) FLANGE BEARINGS, USE STARPLEX-2 GREASE. 2. INLET TO EXHAUST FAN DAMPER - TAG NO. 1-FCV-439 A) GREASE NINE (9) FLANGE BEARINGS - NORTH SIDE, USE STARPLEX-2 GREASE. B) GREASE NINE (9) FLANGE BEARINGS - SOUTH SIDE, USE STARPLEX-2 GREASE. 3. RECIRCULATING DAMPER - TAG NO. 1-FCV-450 A) GREASE TWO (2) FLANGE BEARINGS, USE STARPLEX-2 GREASE. 4. FRESH AIR DAMPER - TAG NO. 1-FCV-400 A) GREASE TWO (2) FLANGE BEARINGS, USE STARPLEX-2 GREASE. 5. REPORT UNUSUAL CONDITIONS TO YOUR SUPERVISOR.] 			
Weblink:			
Old_task: <u>RTO-3M-LUB</u>		PM REVISION LOG: <u>6/26/2015 Changed from 1st to 3rd (run shift). VJK</u>	
Est. Hours: <u>0</u>			



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Condition Monitoring		PM Center	Dashboard			

Assets

Add	Edit	Delete	List	<<	GoTo	>>	Actions	Options
Asset ID: 601508 Asset Description: RTO COMBUSTOR BLOWER Asset Type Description: Type: A Criticality: EQ-A Out of Service: False Out of Service Date: Weblink: Comments: Monitor Class:								
Department: CDCALINE Manufacturer: Model No.: Serial No.: PLC ID #: Lubrication Type:								

Meter Readings

Add	Options					
Tran. ID.	Meter Type	Date Taken	Taken By	Meter Reading	Reset	Meter total
No Records Found.						

PM Schedule

Add	Options	Copy PM Schedule	Learn More						
GoTo	Produce Calendar Every?	Calendar Based Freq.	Next PM Date	Brief Description	Last PM Work Order Date	Last PM Work Order No.	Calendar Freq Type	Assign To	Est. Hours
GoTo	1.00	Months	04/08/2019	RTO-1M-INFLTR:RTO COMBUSTOR BLOWER INLET FILTER INSPECTION	03/06/2019	463027	Shadow	Maint-2nd	0.00
GoTo	2.00	Weeks	04/15/2019	RTO-BW-CBLWR:RTO BI-WEEKLY COMBUSTOR BLOWER INSPECTION	03/25/2019	464985	Shadow	Maint-2nd	0.00

Related Parts

Add	Options			
Item	Descrip	Qty	Unitms	Category
No Records Found.				

Name Plate Information

Add	Options	Import Attributes
Plateid	Descrip	Value
No Records Found.		

Monitoring Points

Options	Add New Class	Delete Class
Monitor Class	Monitor Type	Upper bound
No Records Found.		

Asset Documents

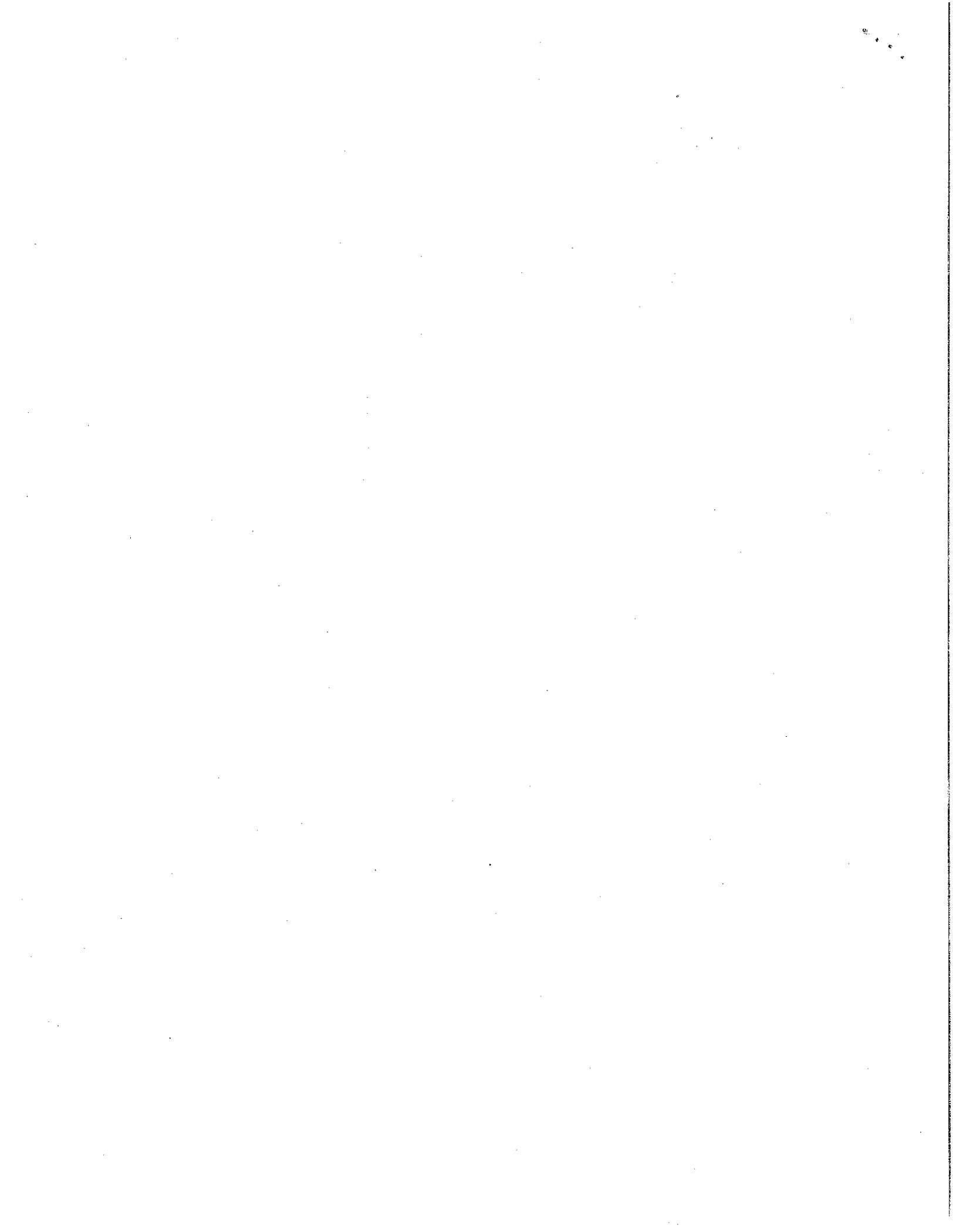
Options		
COMPID	Print with WO	Description
No Records Found.		

Home	Navigation	Assets	Work Orders	Contacts	Reports	Parts
Condition Monitoring		PM Center	Dashboard			

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PM

Edit	Delete	Actions	Options
Pmid: <u>1PO0UH00T</u>		Next PM Date: 04/08/2019	
Asset ID: <u>601508</u>			
Work Order Type: PM-INSP		Last PM Work Order Date: 03/06/2019	
PM Group:		Last PM Work Order No.: 463027	
Calendar Based		Meter Based	
Produce Every?: 1		Produce PM Every: 0	
Calendar Based Freq.: Months		Occurs Desc.:	
Calendar Freq Type: Shadow		Meter Type: TOTALS	
		Daily Average: 0	
		Last Meter Reading Entry: 0	
		Last Meter Reading Date:	
		Last PM Produced At: 0	
On Calendar?: True		Meter To-Date: 0	
Route Sequence:		Skip Mondays?: False	
Route:		Skip Tuesdays?: False	
Assign To Type: Maint Supv		Skip Wednesdays?: False	
Assign To: Maint-2nd		Skip Thursdays?: False	
Perform For Type: n/a		Skip Fridays?: True	
Perform For:		Skip Saturdays?: True	
Task No.: 0278		Skip Sundays?: True	
Brief Description: RTO-1M-INFLTR:RTO COMBUSTOR BLOWER INLET FILTER INSPECTION			
Detailed Text: 1. INLET AIR FILTER: A) REMOVE FILTER AND CLEAN. 2. REINSTALL FILTER. 3. WIRE BRUSH PERFORATED SCREEN. 4. REPORT UNUSUAL CONDITIONS TO YOUR SUPERVISOR.			
Weblink:		RTO-1M- INFLTR	
Old_task:		PM REVISION LOG: 6/23/15 Changed from 1st shift to 2nd shift. VJK 2/9/18 Removed "WHILE THE COMBUSTION BLOWER IS RUNNING, PERFORM THE FOLLOWING P.M." Really don't want to be doing this while running. VJK	
Est. Hours: 0			



Home	Navigation	Assets	Work Orders	Contacts	Reports	Parts
Condition Monitoring		PM Center	Dashboard			

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Edit	Delete	Actions	Options
Pmid: <u>1PO0UH00U</u>		Next PM Date: 04/15/2019	
Asset ID: <u>601508</u>			
Work Order Type: <u>PM-INSP</u>		Last PM Work Order Date: <u>03/25/2019</u>	
PM Group: _____		Last PM Work Order No.: <u>464985</u>	
Calendar Based		Meter Based	
Produce Every?: <u>2</u>		Produce PM Every: <u>0</u>	
Calendar Based Freq.: <u>Weeks</u>		Occurs Desc.: _____	
Calendar Freq Type: <u>Shadow</u>		Meter Type: <u>TOTALS</u>	
		Daily Average: <u>0</u>	
		Last Meter Reading Entry: <u>0</u>	
		Last Meter Reading Date: _____	
		Last PM Produced At: <u>0</u>	
On Calendar?: <u>True</u>		Meter To-Date: <u>0</u>	
Route Sequence: _____		Skip Mondays?: <u>False</u>	
Route: _____		Skip Tuesdays?: <u>True</u>	
Assign To Type: <u>Maint Supv</u>		Skip Wednesdays?: <u>True</u>	
Assign To: <u>Maint-2nd</u>		Skip Thursdays?: <u>True</u>	
Perform For Type: <u>n/a</u>		Skip Fridays?: <u>True</u>	
Perform For: _____		Skip Saturdays?: <u>True</u>	
Task No.: <u>0277</u>		Skip Sundays?: <u>True</u>	
Brief Description: <u>RTO-BW-CBLWR:RTO BI-WEEKLY COMBUSTOR BLOWER INSPECTION</u>			
Detailed Text: <u>WHILE THE COMBUSTION BLOWER IS RUNNING, MAKE THE FOLLOWING INSPECTION.</u>			
1. BLOWER:			
A) INSPECT HOUSING FOR DAMAGE, FOR WEAR, AND FOR FLAKING OF FIBER-GLASS.			
B) CHECK EXPANSION JOINT FOR DAMAGE, FOR HOLES AND FOR BEING BRITTLE, CHECK CLAMPS.			
2. MOTOR:			
A) CHECK MOTOR FOR RUNNING HOT.			
B) CHECK MOTOR FOR VIBRATION AND FOR BAD BEARINGS.			
C) TIGHTEN MOUNTING BOLTS.			
3. FRAME:			
A) CHECK CORK UNDER FRAME FOR DAMAGE.			
B) CHECK MOUNTING BOLTS FOR PROPER TIGHTNESS. NOTE: BOLTS ARE ONLY HAND TIGHT AND SHOULD BE LOCKED, YOU SHOULD HAVE APPROX. 1/32" BETWEEN CORK AND BOTTOM OF FRAME.			
4. REPORT UNUSUAL CONDITIONS TO YOUR SUPERVISOR.			
Weblink: _____			
Old_task: <u>RTO-BW-</u>		PM REVISION LOG: <u>11/20/15 Changed to come out on Mondays so can be done while RTO is</u>	
<u>CBLWR</u>		<u>running sometime during week as PM states, Ben McLeod. VJK</u>	
Est. Hours: <u>0</u>			

Home	Navigation	Assets	Work Orders	Contacts	Reports	Parts
Condition Monitoring		PM Center	Dashboard			

Assets

Add	Edit	Delete	List	<<	GoTo	>>	Actions	Options
Asset ID: 123551 Asset Description: WEST DAKOTA SCRUBBER Asset Type Description: Type: A Criticality: EQ-B Out of Service: False Out of Service Date: Weblink: Comments: Monitor Class:								
Department: CDCALINE Manufacturer: Dakota Model No.: DES-60 Serial No.: S-158-B PLC ID #: Lubrication Type:								

Meter Readings

Add	Options					
Tran. ID.	Meter Type	Date Taken	Taken By	Meter Reading	Reset	Meter total
No Records Found.						

PM Schedule

Add	Options	Copy PM Schedule	Learn More						
GoTo	Produce Calendar Every?	Based Freq.	Next PM Date	Brief Description	Last PM Work Order Date	Last PM Work Order No.	Calendar Freq Type	Assign To	Est. Hours
GoTo	2.00	Months	04/15/2019	DAK-2M-BLWR:DAKOTA SCRUBBER 2-MONTH BLOWER INSPECTION	02/11/2019	460441	Shadow	Maint-2nd	0.00
GoTo	2.00	Months	04/15/2019	DAK-2M-DUCT:DAKOTA SCRUBBER 2-MONTH DUCT INSPECTION	02/11/2019	460443	Shadow	Maint-2nd	0.00
GoTo	1.00	Weeks	04/01/2019	DAK-D-PHCHCK:DAKOTA SCRUBBER DAILY PH CHECK	03/25/2019	464848	Static	Maint-3rd	0.00
GoTo	1.00	Weeks	04/03/2019	DAK-W-PMPBLWR:CIRCULATING PUMP AND BLOWER INSPECTION	03/27/2019	465175	Shadow	Maint-3rd	0.00
GoTo	1.00	Weeks	04/01/2019	DAK-D-PHCHCK:DAKOTA SCRUBBER DAILY PH CHECK	03/25/2019	464935	Static	Maint-1st	0.00
GoTo	1.00	Weeks	04/01/2019	DAK-D-PHCHCK:DAKOTA SCRUBBER DAILY PH CHECK	03/25/2019	465000	Static	Maint-2nd	0.00
GoTo	2.00	Weeks	04/10/2019	DAK-2W-LUB:DAKOTA SCRUBBER 2-WEEK LUBRICATION	03/27/2019	465240	Shadow	Maint-2nd	0.10

Related Parts

Add	Options			
Item	Descrip	Qty	Unitms	Category
No Records Found.				

Name Plate Information

Add	Options	Import Attributes
Plateid	Descrip	Value
No Records Found.		

Monitoring Points

Options	Add New Class	Delete Class
Monitor Class	Monitor Type	Upper bound
No Records Found.		

Asset Documents

Options		Description
COMPID	Print with WO	
No Records Found.		

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Edit	Delete	Actions	Options	
Pmid: 1PO0UGZEO		Next PM Date: 04/15/2019		
Asset ID: 123551				
Work Order Type: PM-INSP		Last PM Work Order Date: 02/11/2019		
PM Group:		Last PM Work Order No.: 460441		
Calendar Based		Meter Based		
Produce Every?: 2		Produce PM Every: 0		
Calendar Based Freq.: Months		Occurs Desc.:		
Calendar Freq Type: Shadow		Meter Type: TOTALS		
		Daily Average: 0		
		Last Meter Reading Entry: 0		
		Last Meter Reading Date:		
		Last PM Produced At: 0		
On Calendar?: True		Meter To-Date: 0		
Route Sequence:		Skip Mondays?: False		
Route:		Skip Tuesdays?: False		
Assign To Type: Maint Supv		Skip Wednesdays?: False		
Assign To: Maint-2nd		Skip Thursdays?: False		
Perform For Type: n/a		Skip Fridays?: True		
Perform For:		Skip Saturdays?: True		
Task No.: 0304		Skip Sundays?: True		
Brief Description: DAK-2M-BLWR:DAKOTA SCRUBBER 2-MONTH BLOWER INSPECTION				
Detailed Text: 1. BEFORE YOUR WORK ON THIS BLOWER, LOCK-IT-OUT AND HAVE YOUR LOCK-OUT VERIFIED.				
2. SHEAVES AND V-BELTS (REMOVE GUARD)				
A. CHECK DRIVE AND DRIVEN SHEAVES FOR WEAR AND FOR PROPER ALIGNMENT.				
B. TIGHTEN ALL MOUNTING BOLTS.				
C. CHECK V-BELTS FOR WEAR, CRACKS, ETC. (B-61 BELTS)				
3. MOTOR				
A. CHECK MOTOR AND SEALTITE FOR DAMAGE.				
B. TIGHTEN ALL MOUNTING BOLTS.				
4. PILLOW BLOCK BEARINGS				
A. CHECK TWO (2) PILLOW BLOCK BEARINGS FOR FAILURE.				
B. TIGHTEN ALL MOUNTING BOLTS.				
C. CHECK FOR SIGNS OF RECENT LUBRICATION. GREASE IF NECESSARY WITH STARTPLEX-2.				
5. BLOWER HOUSING				
A. INSPECT BLOWER HOUSING FOR HOLES AND CRACKS.				
B. CHECK INLET FLANGE FOR HOLES AND CRACKS. TIGHTEN ALL FLANGE BOLTS.				
C. CHECK OUTLET FLANGE FOR HOLES AND CRACKS. TIGHTEN ALL FLANGE BOLTS.				
6. REPORT UNUSUAL CONDITIONS TO YOUR SUPERVISOR.				
Weblink:		PM REVISION LOG:		
Old_task: DAK-2M-BLWR				
Est. Hours: 0				

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Edit	Delete	Actions	Options
Pmid: <u>1PO0UGZEQ</u>		Next PM Date: 04/15/2019	
Asset ID: <u>123551</u>			
Work Order Type: PM-INSP		Last PM Work Order Date: 02/11/2019	
PM Group:		Last PM Work Order No.: 460443	
Calendar Based		Meter Based	
Produce Every?: 2		Produce PM Every: 0	
Calendar Based Freq.: Months		Occurs Desc.:	
Calendar Freq Type: Shadow		Meter Type: TOTALS	
		Daily Average: 0	
		Last Meter Reading Entry: 0	
		Last Meter Reading Date:	
		Last PM Produced At: 0	
On Calendar?: True		Meter To-Date: 0	
Route Sequence:		Skip Mondays?: False	
Route:		Skip Tuesdays?: False	
Assign To Type: Maint Supv		Skip Wednesdays?: False	
Assign To: Maint-2nd		Skip Thursdays?: False	
Perform For Type: n/a		Skip Fridays?: True	
Perform For:		Skip Saturdays?: True	
Task No.: 0303		Skip Sundays?: True	
Brief Description: DAK-2M-DUCT:DAKOTA SCRUBBER 2-MONTH DUCT INSPECTION			
Detailed Text: 1. WHILE THE SCRUBBER IS IN OPERATION, MAKE THE FOLLOWING PVC AND DUCT WORK INSPECTION.			
2. DUCT WORK			
A. INPECT DUCT WORK FROM MACHINES TO INLET OF SCRUBBER.			
B. CHECK FOR DAMAGE, RUST, HOLES, AND ANY SIGN OF DUCT DETERIORATION.			
C. CHECK ALL FLANGE CONNECTION, WELD JOINTS, AND ELBOWS FOR LEAKS, RUST, ETC.			
D. CHECK ALL HANGER STRAPS FOR BEING LOOSE AND FOR BROKEN OR MISSING STRAPS.			
3. DROP OUT BOX			
A. CHECK DROP OUT BOX FOR RUST AND HOLES.			
B. CHECK SUPPORT BRACKETS FOR DAMAGE.			
C. CHECK DROP PIPE AND HOSE. NOTE: GATE SHOULD BE CLOSED.			
4. PVC - DUCT WORK TO BLOWER INLET AND EXHAUST			
A. CHECK ALL PVC DUCT FOR DAMAGE, CRACKS, AND LOOSE CONNECTING JOINTS.			
B. CHECK EXPANSION JOINT AND TRANSITION FOR DAMAGE, CRACKS, AND LOOSE JOINTS.			
5. INSPECTION PORTS.			
CHECK TWO (2) INSPECTION PORTS FOR LEAKS AND CRACKS.			
6. RECIRCULATING PUMP PVC PIPING - CHECK ALL PIPING FOR LEAKS.			
7. CHECK OVER THE ENTIRE UNIT FOR DAMAGE, CRACKS, AND OTHER DAMAGE.			
8. REPORT UNUSUAL CONDITIONS TO YOUR SUPERVISOR.			
Weblink:			
Old_task: DAK-2M-DUCT		PM REVISION LOG: 7/15/15 Changed Assign To from 1st to 2nd. VJK	
Est. Hours: 0			

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PM

Edit	Delete	Actions	Options
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Pmid: 1PO0UGZES Next PM Date: 04/01/2019
 Asset ID: 123551

Work Order Type: PM-INSP Last PM Work Order Date: 03/25/2019
 PM Group: Last PM Work Order No.: 464848

Calendar Based

Produce Every?: 1
 Calendar Based Freq.: Weeks
 Calendar Freq Type: Static

Meter Based

Produce PM Every: 0
 Occurs Desc.:
 Meter Type: TOTALS
 Daily Average: 0
 Last Meter Reading Entry: 0
 Last Meter Reading Date:
 Last PM Produced At: 0

On Calendar?: True
 Route Sequence:
 Route:
 Assign To Type: Maint Supv
 Assign To: Maint-3rd
 Perform For Type: n/a
 Perform For:
 Task No.: 0305

Meter To-Date: 0
 Skip Mondays?: False
 Skip Tuesdays?: False
 Skip Wednesdays?: False
 Skip Thursdays?: False
 Skip Fridays?: False
 Skip Saturdays?: False
 Skip Sundays?: False

Brief Description: DAK-D-PHCHCK:DAKOTA SCRUBBER DAILY PH CHECK

Detailed Text: NOTE: THIS PM IS TO BE PERFORMED IN THE SAME HOUR WINDOW EITHER JUST BEFORE OR JUST AFTER LUNCH EVERY DAY. NO EXCEPTIONS.

1. WHILE THE SCRUBBER IS IN OPERATION RECORD THE FOLLOWING READINGS:

MON TUE WED THU FRI SAT SUN

PH _____
 FLOW _____
 FAN _____
 PACKING BUNDLE _____

2. IF YOUR SKIN COME IN CONTACT WITH THE ACID SOLUTION AT ANY TIME, IMMEDIATELY ACTIVATE THE SAFETY SHOWER/EYE WASH STATION AND RINSE THE AFFECTED AREA FOR A FULL 15 MINUTES. REPORT ANY INCIDENT TO THE SAFETY DEPARTMENT TO INSURE PROPER MEDICAL CARE.

3. ON THE CONTROL PANEL NOTE AND RECORD THE PH READINGS.

4. RECORD THE GPM OF RECIRCULATING PUMP. (APPROX. 80 GPM)

5. RECORD PRESSURE DROPS ACROSS THE SCRUBBER PACKING BUNDLES AND ACROSS THE SYSTEM FAN EXHAUST. MAGNEHELIC GAUGES ARE LOCATED ON THE NORTHWEST SIDE OF UNIT. TOP MAGNEHELIC FOR EXHAUST FAN (APPROX. 7 IWC) BOTTOM MAGNEHELIC FOR PACKING BUNDLE. (APPROX. 1 IWC)

6. IF THE PH READING IS ABOVE 4.5, CONTACT YOUR SUPERVISOR SO PLANS CAN BE MADE TO DRAIN AND RECHARGE THE SYSTEM. IF IT BECOMES NECESSARY TO DRAIN AND RECHARGE THE SYSTEM, YOU MUST RE-CALIBRATE THE PH PROBE.

7. REPORT UNUSUAL CONDITIONS TO YOUR SUPERVISOR.

Weblink:

Old_task: DAK-D-PHCHCK

PM REVISION LOG: 10/16/09 Changed "Assign To" from WWT to Maint-3rd.

Est. Hours: 0

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Edit	Delete	Actions	Options
Pmid: 1PO0UGZEU		Next PM Date: 04/03/2019	
Asset ID: <u>123551</u>			
Work Order Type: PM-INSP		Last PM Work Order Date: 03/27/2019	
PM Group:		Last PM Work Order No.: 465175	
Calendar Based		Meter Based	
Produce Every?: 1		Produce PM Every: 0	
Calendar Based Freq.: Weeks		Occurs Desc.:	
Calendar Freq Type: Shadow		Meter Type: TOTALS	
		Daily Average: 0	
		Last Meter Reading Entry: 0	
		Last Meter Reading Date:	
		Last PM Produced At: 0	
On Calendar?: True		Meter To-Date: 0	
Route Sequence:		Skip Mondays?: False	
Route:		Skip Tuesdays?: False	
Assign To Type: Maint Supv		Skip Wednesdays?: False	
Assign To: Maint-3rd		Skip Thursdays?: False	
Perform For Type: n/a		Skip Fridays?: True	
Perform For:		Skip Saturdays?: True	
Task No.: 0306		Skip Sundays?: True	
Brief Description: DAK-W-PMPBLWR:CIRCULATING PUMP AND BLOWER INSPECTION			
Detailed Text: 1. WHILE THE SCRUBBER IS IN OPERATION, MAKE THE FOLLOWING INSPECTION.			
2. CIRCULATING PUMP			
A. CHECK PUMP AND MOTOR FOR VIBRATION AND RUNNING HOT.			
B. TIGHTEN MOUNTING BOLTS.			
3. BLOWER			
A. CHECK BLOWER FOR VIBRATION.			
B. CHECK MOTOR FOR RUNNING HOT.			
C. TIGHTEN MOTOR AND FRAME MOUNTING BOLTS.			
4. PIPING			
A. INSPECT ALL PVC PIPING FOR LEAKS.			
B. CHECK CIRCULATING PUMP FOR LEAKS.			
C. CHECK VALVE AND FITTINGS FOR LEAKS.			
NOTE: IF LEAKS ARE PRESENT, VERY CAREFULLY ATTEMPT TO TIGHTEN FITTINGS. IF LEAKS CAN NOT BE STOPPED, NOTIFY YOUR SUPERVISOR, SO REPAIRS CAN BE MADE.			
5. SAFETY SHOWER/EYE WASH STATION (WEST OF SCRUBBERS)			
A. TEST EYE WASH STATION TO ENSURE IT WORKS PROPERLY.			
B. TEST SHOWER STATION TO ENSURE IT WORKS PROPERLY.			
C. MAKE ALL NECESSARY ADJUSTMENTS AND REPAIRS.			
6. REPORT UNUSUAL CONDITIONS TO YOUR SUPERVISOR.			
Weblink:			
DAK-W-		PM REVISION LOG: 6/4/15 Changed from 1st shift to 3rd shift. VJK	
Old_task: PMPBLWR		3/2/18 Removed motor amps readings from PM due to Arc Flask Safety. VJK	
Est. Hours: 0			

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PM

Edit	Delete	Actions	Options
Pmid: <u>2UP1F81Y3</u>		Next PM Date: 04/01/2019	
Asset ID: <u>123551</u>			
Work Order Type: PM-INSP		Last PM Work Order Date: 03/25/2019	
PM Group:		Last PM Work Order No.: 464935	
Calendar Based		Meter Based	
Produce Every?: 1		Produce PM Every: 0	
Calendar Based Freq.: Weeks		Occurs Desc.:	
Calendar Freq Type: Static		Meter Type: N/A	
		Daily Average: 0	
		Last Meter Reading Entry: 0	
		Last Meter Reading Date:	
		Last PM Produced At: 0	
On Calendar?: True		Meter To-Date: 0	
Route Sequence:		Skip Mondays?: False	
Route:		Skip Tuesdays?: True	
Assign To Type: Maint Supv		Skip Wednesdays?: True	
Assign To: Maint-1st		Skip Thursdays?: True	
Perform For Type: n/a		Skip Fridays?: True	
Perform For:		Skip Saturdays?: True	
Task No.: 0305		Skip Sundays?: True	
Brief Description: DAK-D-PHCHCK:DAKOTA SCRUBBER DAILY PH CHECK			
Detailed Text: NOTE: THIS PM IS TO BE PERFORMED IN THE SAME HOUR WINDOW EITHER JUST BEFORE OR JUST AFTER LUNCH EVERY DAY. NO EXCEPTIONS.			
1. WHILE THE SCRUBBER IS IN OPERATION RECORD THE FOLLOWING READINGS:			
MON TUE WED THU FRI SAT SUN			
PH _____			
FLOW _____			
FAN _____			
PACKING _____			
2. IF YOUR SKIN COME IN CONTACT WITH THE ACID SOLUTION AT ANY TIME, IMMEDIATELY ACTIVATE THE SAFETY SHOWER/EYE WASH STATION AND RINSE THE AFFECTED AREA FOR A FULL 15 MINUTES. REPORT ANY INCIDENT TO THE SAFETY DEPARTMENT TO INSURE PROPER MEDICAL CARE.			
3. ON THE CONTROL PANEL NOTE AND RECORD THE PH READINGS.			
4. RECORD THE GPM OF RECIRCULATING PUMP. (APPROX. 80 GPM)			
5. RECORD PRESSURE DROPS ACROSS THE SCRUBBER PACKING BUNDLES AND ACROSS THE SYSTEM FAN EXHAUST. MAGNEHELIC GAUGES ARE LOCATED ON THE NORTHWEST SIDE OF UNIT. TOP MAGNEHELIC FOR EXHAUST FAN (APPROX. 7 IWC) BOTTOM MAGNEHELIC FOR PACKING BUNDLE. (APPROX. 1 IWC)			
6. IF THE PH READING IS ABOVE 4.5, CONTACT YOUR SUPERVISOR SO PLANS CAN BE MADE TO DRAIN AND RECHARGE THE SYSTEM. IF IT BECOMES NECESSARY TO DRAIN AND RECHARGE THE SYSTEM, YOU MUST RE-CALIBRATE THE PH PROBE.			
7. REPORT UNUSUAL CONDITIONS TO YOUR SUPERVISOR.			
Weblink:		PM REVISION LOG: 1/27/2010 New to 1st shift.	
Old_task:		2/10/11 "Changed splash" apron to "acid suit", per Erik Olson.	
		5/17/18 Changed this PM to be like 3rd shifts PM per Change Request 2018-39.	
		VJK	
Est. Hours: 0			

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Edit	Delete	Actions	Options
Pmid: <u>2UP1F7MQU</u>		Next PM Date: 04/01/2019	
Asset ID: <u>123551</u>			
Work Order Type: <u>PM-INSP</u>		Last PM Work Order Date: <u>03/25/2019</u>	
PM Group: _____		Last PM Work Order No.: <u>465000</u>	
Calendar Based		Meter Based	
Produce Every?: <u>1</u>		Produce PM Every: <u>0</u>	
Calendar Based Freq.: <u>Weeks</u>		Occurs Desc.: _____	
Calendar Freq Type: <u>Static</u>		Meter Type: <u>N/A</u>	
		Daily Average: <u>0</u>	
		Last Meter Reading Entry: <u>0</u>	
		Last Meter Reading Date: _____	
		Last PM Produced At: <u>0</u>	
On Calendar?: <u>True</u>		Meter To-Date: <u>0</u>	
Route Sequence: _____		Skip Mondays?: <u>False</u>	
Route: _____		Skip Tuesdays?: <u>True</u>	
Assign To Type: <u>Maint Supv</u>		Skip Wednesdays?: <u>True</u>	
Assign To: <u>Maint-2nd</u>		Skip Thursdays?: <u>True</u>	
Perform For Type: <u>n/a</u>		Skip Fridays?: <u>True</u>	
Perform For: _____		Skip Saturdays?: <u>True</u>	
Task No.: <u>0305</u>		Skip Sundays?: <u>True</u>	
Brief Description: <u>DAK-D-PHCHCK.DAKOTA SCRUBBER DAILY PH CHECK</u>			
Detailed Text: <u>NOTE: THIS PM IS TO BE PERFORMED IN THE SAME HOUR WINDOW EITHER JUST BEFORE OR JUST AFTER LUNCH EVERY DAY. NO EXCEPTIONS.</u>			
1. WHILE THE SCRUBBER IS IN OPERATION RECORD THE FOLLOWING READINGS:			
MON TUE WED THU FRI SAT SUN			
PH _____			
FLOW _____			
FAN _____			
PACKING _____			
2. IF YOUR SKIN COME IN CONTACT WITH THE ACID SOLUTION AT ANY TIME, IMMEDIATELY ACTIVATE THE SAFETY SHOWER/EYE WASH STATION AND RINSE THE AFFECTED AREA FOR A FULL 15 MINUTES. REPORT ANY INCIDENT TO THE SAFETY DEPARTMENT TO INSURE PROPER MEDICAL CARE.			
3. ON THE CONTROL PANEL NOTE AND RECORD THE PH READINGS.			
4. RECORD THE GPM OF RECIRCULATING PUMP. (APPROX. 80 GPM)			
5. RECORD PRESSURE DROPS ACROSS THE SCRUBBER PACKING BUNDLES AND ACROSS THE SYSTEM FAN EXHAUST. MAGNEHELIC GAUGES ARE LOCATED ON THE NORTHWEST SIDE OF UNIT. TOP MAGNEHELIC FOR EXHAUST-FAN (APPROX. 7 IWC) BOTTOM MAGNEHELIC FOR PACKING BUNDLE. (APPROX. 1 IWC)			
6. IF THE PH READING IS ABOVE 4.5, CONTACT YOUR SUPERVISOR SO PLANS CAN BE MADE TO DRAIN AND RECHARGE THE SYSTEM. IF IT BECOMES NECESSARY TO DRAIN AND RECHARGE THE SYSTEM, YOU MUST RE-CALIBRATE THE PH PROBE.			
7. REPORT UNUSUAL CONDITIONS TO YOUR SUPERVISOR.			
Weblink: _____		PM REVISION LOG: <u>1/27/2010 New to 2nd shift.</u>	
Old_task: _____		<u>2/10/11 "Changed splash" apron to "acid suit", per Erik Olson.</u>	
Est. Hours: <u>0</u>		<u>5/17/18 Changed this PM to be like 3rd shifts PM per Change Request 2018-39. VJK</u>	

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PM

Edit	Delete	Actions	Options
Pmid: <u>3QW0SDWK7</u>		Next PM Date: 04/10/2019	
Asset ID: <u>123551</u>			
Work Order Type: <u>PM-LUBE</u>		Last PM Work Order Date: <u>03/27/2019</u>	
PM Group: _____		Last PM Work Order No.: <u>465240</u>	
Calendar Based		Meter Based	
Produce Every?: <u>2</u>		Produce PM Every: <u>0</u>	
Calendar Based Freq.: <u>Weeks</u>		Occurs Desc.: _____	
Calendar Freq Type: <u>Shadow</u>		Meter Type: <u>N/A</u>	
		Daily Average: <u>0</u>	
		Last Meter Reading Entry: <u>0</u>	
		Last Meter Reading Date: _____	
		Last PM Produced At: <u>0</u>	
On Calendar?: <u>False</u>		Meter To-Date: <u>0</u>	
Route Sequence: _____		Skip Mondays?: <u>False</u>	
Route: _____		Skip Tuesdays?: <u>False</u>	
Assign To Type: <u>Maint Supv</u>		Skip Wednesdays?: <u>False</u>	
Assign To: <u>Maint-2nd</u>		Skip Thursdays?: <u>False</u>	
Perform For Type: <u>Supplier</u>		Skip Fridays?: <u>True</u>	
Perform For: _____		Skip Saturdays?: <u>True</u>	
Task No.: <u>0510</u>		Skip Sundays?: <u>True</u>	
Brief Description: <u>DAK-2W-LUB:DAKOTA SCRUBBER 2-WEEK LUBRICATION</u>			
Detailed Text: <u>1. USING STARPLEX-2 GREASE, LUBRICATE THE FOLLOWING:</u>			
<u>A. SCRUBBER BLOWER - GREASE TWO (2) PILLOW BLOCK BEARINGS, TWO (2) SHOTS OF GREASE.</u>			
<u>B. RECIRCULATING PUMP - GREASE TWO (2) FLANGE BEARINGS, TWO (2) SHOTS OF GREASE.</u>			
Weblink: _____			
Old_task: _____		PM REVISION LOG: <u>3/26/2013 Changed from COLL-SYS to equipment # for each.</u>	
Est. Hours: <u>0.10</u>			

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Assets

Add	Edit	Delete	List	<<	GoTo	>>	Actions	Options
Asset ID: 123552								
Asset Description: EAST DAKOTA SCRUBBER								
Asset Type Description:				Department: CDCALINE				
Type: A				Manufacturer: Dakota				
Criticality: EQ-B				Model No.: DES-60				
Out of Service: False				Serial No.: S-158-A				
Out of Service Date:				PLC ID #:				
Weblink:								
Comments:				Lubrication Type:				
Monitor Class:								

Meter Readings

Add	Options					
Tran. ID.	Meter Type	Date Taken	Taken By	Meter Reading	Reset	Meter total
No Records Found.						

PM Schedule

Add	Options	Copy PM Schedule	Learn More					
Produce Calendar Every?	Calendar Based Freq.	Next PM Date	Brief Description	Last PM Work Order Date	Last PM Work Order No.	Calendar Freq Type	Assign To	Est. Hours
GoTo	2.00 Months	04/15/2019	DAK-2M-BLWR:DAKOTA SCRUBBER 2-MONTH BLOWER INSPECTION	02/11/2019	460442	Shadow	Maint-2nd	0.00
GoTo	2.00 Months	04/15/2019	DAK-2M-DUCT:DAKOTA SCRUBBER 2-MONTH DUCT INSPECTION	02/11/2019	460444	Shadow	Maint-2nd	0.00
GoTo	1.00 Weeks	04/01/2019	DAK-D-PHCHCK:DAKOTA SCRUBBER DAILY PH CHECK	03/25/2019	464849	Static	Maint-3rd	0.00
GoTo	1.00 Weeks	04/03/2019	DAK-W-PMPBLWR:CIRCULATING PUMP AND BLOWER INSPECTION	03/27/2019	465176	Shadow	Maint-3rd	0.00
GoTo	1.00 Weeks	04/01/2019	DAK-D-PHCHCK:DAKOTA SCRUBBER DAILY PH CHECK	03/25/2019	464936	Static	Maint-1st	0.00
GoTo	1.00 Weeks	04/01/2019	DAK-D-PHCHCK:DAKOTA SCRUBBER DAILY PH CHECK	03/25/2019	465001	Static	Maint-2nd	0.00
GoTo	2.00 Weeks	04/10/2019	DAK-2W-LUB:DAKOTA SCRUBBER 2-WEEK LUBRICATION	03/27/2019	465241	Shadow	Maint-2nd	0.10

Related Parts

Add	Options			
Item	Descrip	Qty	Unitms	Category
No Records Found.				

Name Plate Information

Add	Options	Import Attributes
Plateid	Descrip	Value
No Records Found.		

Monitoring Points

Options	Add New Class	Delete Class
Monitor Class	Monitor Type	Upper bound
No Records Found.		

Asset Documents

Options		Description
COMPID	Print with WO	
No Records Found.		

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Edit	Delete	Actions	Options
Pmid: <u>1PO0UGZEP</u>		Next PM Date: 04/15/2019	
Asset ID: <u>123552</u>			
Work Order Type: PM-INSP		Last PM Work Order Date: 02/11/2019	
PM Group:		Last PM Work Order No.: 460442	
Calendar Based		Meter Based	
Produce Every?: 2		Produce PM Every: 0	
Calendar Based Freq.: Months		Occurs Desc.:	
Calendar Freq Type: Shadow		Meter Type: TOTALS	
		Daily Average: 0	
		Last Meter Reading Entry: 0	
		Last Meter Reading Date:	
		Last PM Produced At: 0	
On Calendar?: True		Meter To-Date: 0	
Route Sequence:		Skip Mondays?: False	
Route:		Skip Tuesdays?: False	
Assign To Type: Maint Supv		Skip Wednesdays?: False	
Assign To: Maint-2nd		Skip Thursdays?: False	
Perform For Type: n/a		Skip Fridays?: True	
Perform For:		Skip Saturdays?: True	
Task No.: 0304		Skip Sundays?: True	
Brief Description: DAK-2M-BLWR:DAKOTA SCRUBBER 2-MONTH BLOWER INSPECTION			
Detailed Text: 1. BEFORE YOUR WORK ON THIS BLOWER, LOCK-IT-OUT AND HAVE YOUR LOCK-OUT VERIFIED.			
2. SHEAVES AND V-BELTS (REMOVE GUARD)			
A. CHECK DRIVE AND DRIVEN SHEAVES FOR WEAR AND FOR PROPER ALIGNMENT.			
B. TIGHTEN ALL MOUNTING BOLTS.			
C. CHECK V-BELTS FOR WEAR, CRACKS, ETC.			
3. MOTOR			
A. CHECK MOTOR AND SEALTITE FOR DAMAGE.			
B. TIGHTEN ALL MOUNTING BOLTS.			
4. PILLOW BLOCK BEARINGS			
A. CHECK TWO (2) PILLOW BLOCK BEARINGS FOR FAILURE.			
B. TIGHTEN ALL MOUNTING BOLTS.			
C. CHECK FOR SIGNS OF RECENT LUBRICATION. GREASE IF NECESSARY WITH STARTPLEX-2.			
5. BLOWER HOUSING			
A. INSPECT BLOWER HOUSING FOR HOLES AND CRACKS.			
B. CHECK INLET FLANGE FOR HOLES AND CRACKS. TIGHTEN ALL FLANGE BOLTS.			
C. CHECK OUTLET FLANGE FOR HOLES AND CRACKS. TIGHTEN ALL FLANGE BOLTS.			
6. REPORT UNUSUAL CONDITIONS TO YOUR SUPERVISOR.			
Weblink:		PM REVISION LOG:	
Old_task: DAK-2M-BLWR			
Est. Hours: 0			

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Pmid: 1PO0UGZER		Next PM Date: 04/15/2019	
Asset ID: <u>123552</u>			
Work Order Type: PM-INSP		Last PM Work Order Date: 02/11/2019	
PM Group:		Last PM Work Order No.: 460444	
Calendar Based		Meter Based	
Produce Every?: 2		Produce PM Every: 0	
Calendar Based Freq.: Months		Occurs Desc.:	
Calendar Freq Type: Shadow		Meter Type: TOTALS	
		Daily Average: 0	
		Last Meter Reading Entry: 0	
		Last Meter Reading Date:	
		Last PM Produced At: 0	
On Calendar?: True		Meter To-Date: 0	
Route Sequence:		Skip Mondays?: False	
Route:		Skip Tuesdays?: False	
Assign To Type: Maint Supv		Skip Wednesdays?: False	
Assign To: Maint-2nd		Skip Thursdays?: False	
Perform For Type: n/a		Skip Fridays?: True	
Perform For:		Skip Saturdays?: True	
Task No.: 0303		Skip Sundays?: True	
Brief Description: DAK-2M-DUCT:DAKOTA SCRUBBER 2-MONTH DUCT INSPECTION			
Detailed Text: 1. WHILE THE SCRUBBER IS IN OPERATION, MAKE THE FOLLOWING PVC AND DUCT WORK INSPECTION.			
2. DUCT WORK			
A. INSPECT DUCT WORK FROM MACHINES TO INLET OF SCRUBBER.			
B. CHECK FOR DAMAGE, RUST, HOLES, AND ANY SIGN OF DUCT DETERIORATION.			
C. CHECK ALL FLANGE CONNECTION, WELD JOINTS, AND ELBOWS FOR LEAKS, RUST, ETC.			
D. CHECK ALL HANGER STRAPS FOR BEING LOOSE AND FOR BROKEN OR MISSNG STRAPS.			
3. DROP OUT BOX			
A. CHECK DROP OUT BOX FOR RUST AND HOLES.			
B. CHECK SUPPORT BRACKETS FOR DAMAGE.			
C. CHECK DROP PIPE AND HOSE. NOTE: GATE SHOULD BE CLOSED.			
4. PVC - DUCT WORK TO BLOWER INLET AND EXHAUST			
A. CHECK ALL PVC DUCT FOR DAMAGE, CRACKS, AND LOOSE CONNECTING JOINTS.			
B. CHECK EXPANSION JOINT AND TRANSITION FOR DAMAGE, CRACKS, AND LOOSE JOINTS.			
5. INSPECTION PORTS.			
CHECK TWO (2) INSPECTION PORTS FOR LEAKS AND CRACKS.			
6. RECIRCULATING PUMP PVC PIPING - CHECK ALL PIPING FOR LEAKS.			
7. CHECK OVER THE ENTIRE UNIT FOR DAMAGE, CRACKS, AND OTHER DAMAGE.			
8. REPORT UNUSUAL CONDITIONS TO YOUR SUPERVISOR.			
Weblink:			
Old_task: DAK-2M-DUCT		PM REVISION LOG: 7/15/15 Changed Assign To from 1st to 2nd. VJK	
Est. Hours: 0			

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Pmid: <u>1PO0UGZET</u>		Next PM Date: <u>04/01/2019</u>	
Asset ID: <u>123552</u>			
Work Order Type: <u>PM-INSP</u>		Last PM Work Order Date: <u>03/25/2019</u>	
PM Group:		Last PM Work Order No.: <u>464849</u>	
Calendar Based		Meter Based	
Produce Every?: <u>1</u>		Produce PM Every: <u>0</u>	
Calendar Based Freq.: <u>Weeks</u>		Occurs Desc.:	
Calendar Freq Type: <u>Static</u>		Meter Type: <u>TOTALS</u>	
		Daily Average: <u>0</u>	
		Last Meter Reading Entry: <u>0</u>	
		Last Meter Reading Date:	
		Last PM Produced At: <u>0</u>	
On Calendar?: <u>True</u>		Meter To-Date: <u>0</u>	
Route Sequence:		Skip Mondays?: <u>False</u>	
Route:		Skip Tuesdays?: <u>False</u>	
Assign To Type: <u>Maint Supv</u>		Skip Wednesdays?: <u>False</u>	
Assign To: <u>Maint-3rd</u>		Skip Thursdays?: <u>False</u>	
Perform For Type: <u>n/a</u>		Skip Fridays?: <u>False</u>	
Perform For:		Skip Saturdays?: <u>False</u>	
Task No.: <u>0305</u>		Skip Sundays?: <u>False</u>	
Brief Description: <u>DAK-D-PHCHCK:DAKOTA SCRUBBER DAILY PH CHECK</u>			
Detailed Text: <u>NOTE: THIS PM IS TO BE PERFORMED IN THE SAME HOUR WINDOW EITHER JUST BEFORE OR JUST AFTER LUNCH EVERY DAY. NO EXCEPTIONS.</u>			
1. WHILE THE SCRUBBER IS IN OPERATION RECORD THE FOLLOWING READINGS:			
MON TUE WED THU FRI SAT SUN			
PH _____			
FLOW _____			
FAN _____			
PACKING BUNDLE _____			
2. IF YOUR SKIN COME IN CONTACT WITH THE ACID SOLUTION AT ANY TIME, IMMEDIATELY ACTIVATE THE SAFETY SHOWER/EYE WASH STATION AND RINSE THE AFFECTED AREA FOR A FULL 15 MINUTES. REPORT ANY INCIDENT TO THE SAFETY DEPARTMENT TO INSURE PROPER MEDICAL CARE.			
3. ON THE CONTROL PANEL NOTE AND RECORD THE PH READINGS.			
4. RECORD THE GPM OF RECIRCULATING PUMP. (APPROX. 80 GPM)			
5. RECORD PRESSURE DROPS ACROSS THE SCRUBBER PACKING BUNDLES AND ACROSS THE SYSTEM FAN EXHAUST. MAGNEHELIC GAUGES ARE LOCATED ON THE NORTHWEST SIDE OF UNIT. TOP MAGNEHELIC FOR EXHAUST FAN (APPROX. 7 IWC) BOTTOM MAGNEHELIC FOR PACKING BUNDLE. (APPROX. 1 IWC)			
6. IF THE PH READING IS ABOVE 4.5, CONTACT YOUR SUPERVISOR SO PLANS CAN BE MADE TO DRAIN AND RECHARGE THE SYSTEM. IF IT BECOMES NECESSARY TO DRAIN AND RECHARGE THE SYSTEM, YOU MUST RE-CALIBRATE THE PH PROBE.			
7. REPORT UNUSUAL CONDITIONS TO YOUR SUPERVISOR.]			
Weblink:			
Old_task: <u>DAK-D-PHCHCK</u>		PM REVISION LOG: <u>10/16/09 Changed "Assign To" from WWT to Maint-3rd.</u>	
Est. Hours: <u>0</u>			

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Pmid: <u>1PO0UGZEV</u>		Next PM Date: <u>04/03/2019</u>	
Asset ID: <u>123552</u>			
Work Order Type: <u>PM-INSP</u>		Last PM Work Order Date: <u>03/27/2019</u>	
PM Group:		Last PM Work Order No.: <u>465176</u>	
Calendar Based		Meter Based	
Produce Every?: <u>1</u>		Produce PM Every: <u>0</u>	
Calendar Based Freq.: <u>Weeks</u>		Occurs Desc.:	
Calendar Freq Type: <u>Shadow</u>		Meter Type: <u>TOTALS</u>	
		Daily Average: <u>0</u>	
		Last Meter Reading Entry: <u>0</u>	
		Last Meter Reading Date:	
		Last PM Produced At: <u>0</u>	
On Calendar?: <u>True</u>		Meter To-Date: <u>0</u>	
Route Sequence:		Skip Mondays?: <u>False</u>	
Route:		Skip Tuesdays?: <u>False</u>	
Assign To Type: <u>Maint Supv</u>		Skip Wednesdays?: <u>False</u>	
Assign To: <u>Maint-3rd</u>		Skip Thursdays?: <u>False</u>	
Perform For Type: <u>n/a</u>		Skip Fridays?: <u>True</u>	
Perform For:		Skip Saturdays?: <u>True</u>	
Task No.: <u>0306</u>		Skip Sundays?: <u>True</u>	
Brief Description: <u>DAK-W-PMPBLWR:CIRCULATING PUMP AND BLOWER INSPECTION</u>			
Detailed Text: <u>1. WHILE THE SCRUBBER IS IN OPERATION, MAKE THE FOLLOWING INSPECTION.</u>			
<ul style="list-style-type: none"> 2. CIRCULATING PUMP <ul style="list-style-type: none"> A. CHECK PUMP AND MOTOR FOR VIBRATION AND RUNNING HOT. B. TIGHTEN MOUNTING BOLTS. 3. BLOWER <ul style="list-style-type: none"> A. CHECK BLOWER FOR VIBRATION. B. CHECK MOTOR FOR RUNNING HOT. C. TIGHTEN MOTOR AND FRAME MOUNTING BOLTS. 4. PIPING <ul style="list-style-type: none"> A. INSPECT ALL PVC PIPING FOR LEAKS. B. CHECK CIRCULATING PUMP FOR LEAKS. C. CHECK VALVE AND FITTINGS FOR LEAKS. 			
NOTE: IF LEAKS ARE PRESENT, VERY CAREFULLY ATTEMPT TO TIGHTEN FITTINGS. IF LEAKS CAN NOT BE STOPPED, NOTIFY YOUR SUPERVISOR, SO REPAIRS CAN BE MADE.			
<ul style="list-style-type: none"> 5. SAFETY SHOWER/EYE WASH STATION (WEST OF SCRUBBERS) <ul style="list-style-type: none"> A. TEST EYE WASH STATION TO ENSURE IT WORKS PROPERLY. B. TEST SHOWER STATION TO ENSURE IT WORKS PROPERLY. C. MAKE ALL NECESSARY ADJUSTMENTS AND REPAIRS. 6. REPORT UNUSUAL CONDITIONS TO YOUR SUPERVISOR. 			
Weblink:			
DAK-W-		PM REVISION LOG: <u>6/4/15 Changed from 1st shift to 3rd shift. VJK</u>	
Old_task: <u>PMPBLWR</u>		<u>3/2/18 Removed motor amps readings from PM due to Arc Flask Safety. VJK</u>	
Est. Hours: <u>0</u>			

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Pmid: 2UP1F825I Next PM Date: 04/01/2019
 Asset ID: 123552

Work Order Type: PM-INSP Last PM Work Order Date: 03/25/2019
 PM Group: Last PM Work Order No.: 464936

Calendar Based

Produce Every?: 1
 Calendar Based Freq.: Weeks
 Calendar Freq Type: Static

Meter Based

Produce PM Every: 0
 Occurs Desc.:
 Meter Type: N/A
 Daily Average: 0
 Last Meter Reading Entry: 0
 Last Meter Reading Date:
 Last PM Produced At: 0

On Calendar?: True
 Route Sequence:
 Route:
 Assign To Type: Maint Supv
 Assign To: Maint-1st
 Perform For Type: n/a
 Perform For:
 Task No.: 0305

Meter To-Date: 0
 Skip Mondays?: False
 Skip Tuesdays?: True
 Skip Wednesdays?: True
 Skip Thursdays?: True
 Skip Fridays?: True
 Skip Saturdays?: True
 Skip Sundays?: True

Brief Description: DAK-D-PHCHCK:DAKOTA SCRUBBER DAILY PH CHECK

Detailed Text: NOTE: THIS PM IS TO BE PERFORMED IN THE SAME HOUR WINDOW EITHER JUST BEFORE OR JUST AFTER LUNCH EVERY DAY. NO EXCEPTIONS.

1. WHILE THE SCRUBBER IS IN OPERATION RECORD THE FOLLOWING READINGS:

MON TUE WED THU FRI SAT SUN
 PH _____
 FLOW _____
 FAN _____
 PACKING _____

2. IF YOUR SKIN COME IN CONTACT WITH THE ACID SOLUTION AT ANY TIME, IMMEDIATELY ACTIVATE THE SAFETY SHOWER/EYE WASH STATION AND RINSE THE AFFECTED AREA FOR A FULL 15 MINUTES. REPORT ANY INCIDENT TO THE SAFETY DEPARTMENT TO INSURE PROPER MEDICAL CARE.

3. ON THE CONTROL PANEL NOTE AND RECORD THE PH READINGS.

4. RECORD THE GPM OF RECIRCULATING PUMP. (APPROX. 80 GPM)

5. RECORD PRESSURE DROPS ACROSS THE SCRUBBER PACKING BUNDLES AND ACROSS THE SYSTEM FAN EXHAUST. MAGNEHELIC GAUGES ARE LOCATED ON THE NORTHWEST SIDE OF UNIT. TOP MAGNEHELIC FOR EXHAUST FAN (APPROX. 7 IWC) BOTTOM MAGNEHELIC FOR PACKING BUNDLE. (APPROX. 1 IWC)

6. IF THE PH READING IS ABOVE 4.5, CONTACT YOUR SUPERVISOR SO PLANS CAN BE MADE TO DRAIN AND RECHARGE THE SYSTEM. IF IT BECOMES NECESSARY TO DRAIN AND RECHARGE THE SYSTEM, YOU MUST RE-CALIBRATE THE PH PROBE.

7. REPORT UNUSUAL CONDITIONS TO YOUR SUPERVISOR.

Weblink:

PM REVISION LOG: 1/27/2010 New to 1st shift.

Old_task:

2/10/11 "Changed splash" apron to "acid suit", per Erik Olson.
 5/17/18 Changed this PM to be like 3rd shifts PM per Change Request 2018-39.
 VJK

Est. Hours: 0

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Edit	Delete	Actions	Options
Pmid: <u>2UP1FFHJE</u>		Next PM Date: 04/01/2019	
Asset ID: <u>123552</u>			
Work Order Type: PM-INSP		Last PM Work Order Date: 03/25/2019	
PM Group:		Last PM Work Order No.: 465001	
Calendar Based		Meter Based	
Produce Every?: 1		Produce PM Every: 0	
Calendar Based Freq.: Weeks		Occurs Desc.:	
Calendar Freq Type: Static		Meter Type: N/A	
		Daily Average: 0	
		Last Meter Reading Entry: 0	
		Last Meter Reading Date:	
		Last PM Produced At: 0	
On Calendar?: True		Meter To-Date: 0	
Route Sequence:		Skip Mondays?: False	
Route:		Skip Tuesdays?: True	
Assign To Type: Maint Supv		Skip Wednesdays?: True	
Assign To: Maint-2nd		Skip Thursdays?: True	
Perform For Type: n/a		Skip Fridays?: True	
Perform For:		Skip Saturdays?: True	
Task No.: 0305		Skip Sundays?: True	
Brief Description: DAK-D-PHCHCK:DAKOTA SCRUBBER DAILY PH CHECK			
Detailed Text: NOTE: THIS PM IS TO BE PERFORMED IN THE SAME HOUR WINDOW EITHER JUST BEFORE OR JUST AFTER LUNCH EVERY DAY. NO EXCEPTIONS.			
1. WHILE THE SCRUBBER IS IN OPERATION RECORD THE FOLLOWING READINGS:			
MON TUE WED THU FRI SAT SUN			
PH _____			
FLOW _____			
FAN _____			
PACKING _____			
2. IF YOUR SKIN COME IN CONTACT WITH THE ACID SOLUTION AT ANY TIME, IMMEDIATELY ACTIVATE THE SAFETY SHOWER/EYE WASH STATION AND RINSE THE AFFECTED AREA FOR A FULL 15 MINUTES. REPORT ANY INCIDENT TO THE SAFETY DEPARTMENT TO INSURE PROPER MEDICAL CARE.			
3. ON THE CONTROL PANEL NOTE AND RECORD THE PH READINGS.			
4. RECORD THE GPM OF RECIRCULATING PUMP. (APPROX. 80 GPM)			
5. RECORD PRESSURE DROPS ACROSS THE SCRUBBER PACKING BUNDLES AND ACROSS THE SYSTEM FAN EXHAUST. MAGNEHELIC GAUGES ARE LOCATED ON THE NORTHWEST SIDE OF UNIT. TOP MAGNEHELIC FOR EXHAUST FAN (APPROX. 7 IWC) BOTTOM MAGNEHELIC FOR PACKING BUNDLE. (APPROX. 1 IWC)			
6. IF THE PH READING IS ABOVE 4.5, CONTACT YOUR SUPERVISOR SO PLANS CAN BE MADE TO DRAIN AND RECHARGE THE SYSTEM. IF IT BECOMES NECESSARY TO DRAIN AND RECHARGE THE SYSTEM, YOU MUST RE-CALIBRATE THE PH PROBE.			
7. REPORT UNUSUAL CONDITIONS TO YOUR SUPERVISOR.			
Weblink:		PM REVISION LOG: 1/27/2010 New to 2nd shift	
Old_task:		2/10/11 "Changed splash" apron to "acid suit", per Erik Olson.	
		5/17/18 Changed this PM to be like 3rd shifts PM per Change Request 2018-39. VJK	
Est. Hours: 0			

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Pmid: <u>3QW0SH8AR</u>		Next PM Date: 04/10/2019	
Asset ID: <u>123552</u>			
Work Order Type: PM-LUBE		Last PM Work Order Date: 03/27/2019	
PM Group:		Last PM Work Order No.: 465241	
Calendar Based		Meter Based	
Produce Every?: 2		Produce PM Every: 0	
Calendar Based Freq.: Weeks		Occurs Desc.:	
Calendar Freq Type: Shadow		Meter Type: N/A	
		Daily Average: 0	
		Last Meter Reading Entry: 0	
		Last Meter Reading Date:	
		Last PM Produced At: 0	
On Calendar?: False		Meter To-Date: 0	
Route Sequence:		Skip Mondays?: False	
Route:		Skip Tuesdays?: False	
Assign To Type: Maint Supv		Skip Wednesdays?: False	
Assign To: Maint-2nd		Skip Thursdays?: False	
Perform For Type: n/a		Skip Fridays?: True	
Perform For:		Skip Saturdays?: True	
Task No.: 0510		Skip Sundays?: True	
Brief Description: DAK-2W-LUB:DAKOTA SCRUBBER 2-WEEK LUBRICATION			
Detailed Text: 1. USING STARPLEX-2 GREASE, LUBRICATE THE FOLLOWING:			
A. SCRUBBER BLOWER - GREASE TWO (2) PILLOW BLOCK BEARINGS, TWO (2) SHOTS OF GREASE.			
B. RECIRCULATING PUMP - GREASE TWO (2) FLANGE BEARINGS, TWO (2) SHOTS OF GREASE.			
Weblink:			
Old_task:		PM REVISION LOG: 3/26/2013 Changed from COLL-SYS to equipment # for each.	
Est. Hours: 0.10			

