MALFUNCTION ABATEMENT PLAN

Cadillac Casting Inc. Cadillac, MI

Original Plan: December 2001

Revision: March 2019



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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	SV002	Sand Preparation
Scrubber	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. <u>Verification of the Value of the Operating Parameter</u>: 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. <u>Initial Correction Attempt</u>: 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. <u>Secondary Correction Attempt</u>: 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. <u>Repair and Inspection</u>: 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. <u>Estimate Time for Safe Process Shutdown</u>: 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.
- 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. <u>Corrective Action</u>: The Maintenance Manager will proceed with the required corrective actions as directed by the Environmental Manager.
- 10. <u>Formal MDEQ Contact</u>: 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)

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 volitile organic compounds (VOC).

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

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

		Range		
Parameter	Unit/Group ID	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:

Interval Action Performed MDEQ Code Device Monitors the temperature of the cupola Thermocouple Daily 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: January, 2002 Date Updated: December 2013 Prepared By: Stephanie Spice (RMT, Inc.) **Updated By:** Ben Lemley (TRC)

Updated MAP 3-28-19 Afterburner 3/29/2019

Appendix B Venturi Scrubber (SV011)

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, volitile organic compounds (VOC),

manganese, and lead.

 Unit/Group ID
 Process Description.
 Control Device Description/Mfg.
 Stack/Vent ID

 EUMELTING
 Metal Melting
 Venturi Scrubber
 SV011

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

W eekly

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

<u>Quarterly</u>

Check condition of bearings for high operating temperatures or vibration

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

<u>Annual</u>

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

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 (SO2)	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:

		Range		
Parameter	Unit/Group ID	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:

Device Interval Action Performed MDEQ Code
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:
 January, 2002
 Date Updated:
 December 2013

 Prepared By:
 Stephanie Spice (RMT, Inc.)
 Updated By:
 Ben Lemley (TRC)

Updated MAP 3-28-19 Venturi Scrubber 3/29/2019

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

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.

Unit/Group ID	Process Description.	Control Device Description/Mfg.	Stack/Vent ID
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

Air Pollution Control Equipment: Baghouses

Process Equipment: EUSPOGREENSAND, EUSPOBREAKANDSORT,

FUALINESAND, 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.

Air Pollution Control Equipment: Baghouses

EUSPOGREENSAND, EUSPOBREAKANDSORT, **Process Equipment:**

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:

			Range		
Parameter	Process	Control Device	Low High		Units
Pressure drop	EUSPOGREENSAND	Carter day Baghouse	1.5	5	in-H20
Pressure drop	EUSPOBREAKSORT	80,000 cfm Baghouse #1	1	10	in-H20
Pressure drop	EUSPOBREAKSORT	80,000 cfm Baghouse #2	1	9	in-H20
Pressure drop	EUALINESAND	Sly Automatic Shaker Baghouse	2	6	in-H20
Pressure drop	EUFINISHING	40,000 cfm Pulse Jet Baghouse	2	6	in-H20
Pressure drop	EUFINISHING	12,000 cfm Automatic Shaker Baghouse	1	8	in-H20
Pressure drop	EUFINISHING	Sly Automatic Shaker Baghouse	2	6	in-H20

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

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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	<u>intervai</u>	Action Performed	MDEQ Code
1.	Pressure Drop Gauge	Daily	Monitors pressure drop across the Baghouses	R 336.1201

MDEO O--I-

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

Appendix D Amine Catalyst Scrubber (SV018/SV019, SV020)

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.

Unit/Group ID
EUCOREMOLDMAKINGProcess Description.Control Device Description/Mfg.Stack/Vent IDEUCOREMOLDMAKING
EUALINEMOLDCatalyzed core and mold makingDakota Model DI-68SV018EUALINEMOLD
East Dakota ScrubberA-Line core and mold makingWest Dakota ScrubberSV019East Dakota ScrubberSV020

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

<u>Annual</u>

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

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:

		Range		
Parameter	Unit/Group ID	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:

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

Appendix E Impingement Wet Scrubber (SV003, SV010)

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.

Unit/Group IDProcess Description.Control Device Description/Mfg.Stack/Vent IDEUSPOGREENSANDSand PreparationNorth Multiwash scrubberSV010EUSPOSHAKEOUTBreaking and Sorting LineSouth Multiwash scrubberSV003

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

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:

			Rang	е
Parameter	Unit/Group ID	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>	Action Performed	MDEQ Code
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:	January, 2002	Date Updated:	December 2013	
Prepared By:	Stephanie Spice (RMT, Inc.)	Updated By:	Ben Lemley (TRC)	

Appendix F Thermal Regenerative Oxidizer (SV014)

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.

Unit/Group ID Process Description.

EUALINE Iron pouring and cooling line

Control Device Description/Mfg.
Regenerative Thermal Oxidizer (RTO)

Stack/Vent ID 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

<u>Annual</u>

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.

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	1 R 330 1705(1)(2)	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	D 336 1703(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-moth 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.

		Range		
Parameter	Unit/Group ID	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
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:January, 2002Date Updated:December 2013Prepared By:Stephanie Spice (RMT, Inc.)Updated By:Ben Lemley (TRC)

Updated MAP 3-28-19 RTO 3/29/2019

Appendix G Parts Washer

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.

Unit/Group ID EUCOLDCLEANER

Process Description.
Clean Metal Parts

<u>Control Device Description/Mfg.</u> <u>Degreaser/Cold Cleaner</u> Stack/Vent ID 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, tricholoroethylene, 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:
 January, 2002
 Date Updated:
 December 2013

 Prepared By:
 Stephanie Spice (RMT, Inc.)
 Updated By:
 Ben Lemley (TRC)

Preventative Maintenance Plans

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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.

THE PURPOSE OF THIS P.M. IS TO INSURE THAT EQUIPMENT IS IN A-1 OPERATING CONDITION AND IS EMISSION

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 MOUTNTING 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.

Old_task: DUST-M-GINSP3

PM REVISION LOG:

Est. Hours: 4.30

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Go Back PM Edit Delete Actions Options Pmid: 1PO0UGZZI 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.: 464771 Calendar Based **Meter Based** Produce Every?: 4 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-1st Skip Thursdays?: True Perform For Type: n/a Skip Fridays?: True Perform For: Skip Saturdays?: False Task No.: 0326 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 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 OPERATIONIAL 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

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.

MIDDLE __ A) CHECK FOR MISSING BAGS.

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	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.
	B) GLEAR BAG NOGOL G. NELL DOC. LOLDG.
	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.
	A SUMER MORE MEST
	8. SHAKER MOTOR: EAST MIDDLE WEST A) CHECK MOTOR MOUNTING FRAME FOR DAMAGE, CRACKS, ETC.
	B) TIGHTEN MOTOR MOUNTING PRAME FOR DAMAGE, GRACIA, ETG.
	C) INSPECT SEALTITE AND CONDUIT FOR DAMAGE.
	G) INGPLOT CEACHTE AND CONSONT CONSONT CONSONTE
	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.
	LIVI THE GOLLEGIES IS A SECTION OF THE SECTION OF T
	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.
	AL DEPORT UNITED IAL CONDITIONS TO VOLID SUBERVISOR I
	14. REPORT UNUSUAL CONDITIONS TO YOUR SUPERVISOR.
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			DUST COLLECTOR MONTHLY GENERAL INSPECTION
			DRK ON THIS UNIT, LOCK IT OUT !!

- 1. PLATTCO AIR LOCK FLAPPER VALVE:
- A) CHECK AIR SUPPLY LINE FOR LEAKS, REPAIR AS NEEDED.
- B) CHECK AIR FITTINGS FOR WEAR AND BROKEN FITTINGS, REPLACE AS NEEDED.
- C) CHECK ELECTRICAL CONNECTION AND SEALTIGHT FOR DAMAGE.
- D) CHECK CYLINDER MOUNTS AND SHOULDER BOLTS FOR TIGHTNESS.
- E) CHECK BOLTS AND MOUNTS ON ACUATOR ARMS.
- F) CHECK BEARINGS FOR PROPER LUBRICATION.
- G) MANUALLY OPERATE VALVE TO ASSURE WORKING PROPERLY.
- H) CHECK ALL MOUNTING BOLTS FOR BEING TIGHT.
- I) TURN POWER POWER BACK ON AND WATCH FOR PROPER OPERATION.
- 5, MAIN BLOWER:
- A) REMOVE INSPECTION DOOR, INSPECT THE FAN BLADE FOR WEAR, RUST OR HOLES
- B) CHECK THE BLADES FOR BUILDUP, REMOVE ALL DEBRIS FROM THE INSIDE OF THE HOUSING.
- C) INSPECT THE INLET CONE FOR RUST, HOLES, ETC.
- D) CHECK INSIDE THE HOUSING FOR WEAR, RUST, AND FOR HOLES.
- E) REINSTALL THE INSPECTION DOOR.
- 6. DRIVE BELTS: 5VX1600 QTY-4
- A) REMOVE DRIVE GUARD
- B) INSPECT THE V-BELTS FOR WEAR, CRACKS, SIGNS OF DETERIORATION
- C) CHECK FOR PROPER TENSION. ADJUST AS REQUIRED.
- 7, SHEAVES:
- A) CHECK BOTH SHEAVES FOR WEAR AND FOR PROPER ALIGNMENT.
- B) TIGHTEN SET SCREWS AND MOUNTING BOLTS.
- C) REINSTALL GUARD, REMOVED IN STEP 6-A.
- 8. MOTOR: (MAIN BLOWER)
- A) CHECK MOUNTING FRAME FOR DAMAGE, CRACKS, ETC.
- B) TIGHTEN MOTOR MOUNTING BOLTS.
- C) INSPECT SEALTITE OR CONDUIT AND WIRING FOR DAMAGE.
- 9. PILLOW BLOCK BEARINGS:
- A) CHECK BEARINGS FOR FAILURE, TIGHTEN MOUNTING BOLTS.
- B) GREASE AS REQUIRED. USE EP-2 GREASE
- 10. MAIN BLOWER HOUSING, FRAME, AND DUCTWORK:
- A) CHECK HOUSING FOR RUST, HOLES, CRACKS AND BROKEN WELDS.

- 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 Plattco flapper valve

checks

Est. Hours: 0

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PM				
Edit	Delete	Actions	Options	
		Pmid: Asset ID: <u>60</u>	1PO0UH003 01419	Next PM Date: 04/02/2019
	Work	Order Type: Pi	M-INSP	Last PM Work Order Date: 03/26/2019 Last PM Work Order No.: 465086
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	Calendar	r Freq Type: Si	nadow	Meter Type: TOTALS
				Daily Average: 0
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	F	Perform For:		Skip Saturdays?: True
		Task No.: 03	340	Skip Sundays?: True
				P2:DUST COLLECTOR CARTER DAY GENERAL INSPECTION 2 LLECTOR IS RUNNING, MAKE THIS INSPECTION:

- 1. BLOWER MOTOR:
- 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:
- A) CHECK FOR RUNNING HOT OR ROUGH.
- B) TIGHTEN MOUNTING BOLTS.
- C) CHECK FOR RECENT LUBRICATION.
- 3, BLOWER HOUSING AND DUCT:
- 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):
- 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:
- 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:
- 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. 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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PM		
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
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	Perform For Type:n/a	Skip Fridays?: True
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	Task No.: 0269	Skip Sundays?: True

- Detailed Text: THE PURPOSE OF THIS P.M. IS TO INSURE THAT THIS DUST COLLECTOR IS IN A-1 OPERATING CONDITION AND EMISSION FREE.
 - 1. BEFORE YOU START VISOLITE TEST
 - A) PULL DISCONNECT FOR PURGE BLOWER AND LOCK-IT-OUT.
 - B) PULL DISCONNECT FOR BLOW DOWN DRIVE UNIT AND LOCK-IT-OUT.
 - NOTE: BOTH DISCONNECTS ARE LOCATED ON TOP PLATFORM ON THE EAST SIDE OF CARTER DAY.
 - 2. MATERIALS:
 - A) 3 LBS, OF BHA VISOLITE POWDER
 - B) FUNNEL
 - C) DUCT TAPE
 - D) GLOVES
 - E) GOGGLES
 - F) OSHA APPROVED DUST MASK
 - G) FLUORESCENT CORDLESS BLACK LIGHT

 - A) START THE EXHAUST FAN WITH PURGE BLOWER AND BLOW DOWN DISABLED:
 - 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.
 - 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.
 - C) WEARING THE GLOVES, GOGGLES, AND DUST MASK, SLOWLY INJECT THE VISOLITE POWDER INTO THE AIR STREAM AT A STEADY RATE.
 - NOTE: DO NOT DUMP THE VISOLITE INTO THE SYSTEM ALL AT ONCE.
 - D) LET EXHAUST FAN RUN FOR APPROXIMATELYL 15 MINUTES.
 - E) SHUT DOWN EXHAUST FAN AND LOCK-IT-OUT, LEAVE PURGE BLOWER AND BLOW DOWN DRIVE UNITS LOCKED OUT, HAVE YOUR LOCKOUT VERIFIED.
 - 4. FROM THE SAFTETY/SECURITY DEPARTMENT, OBTAIN A CONFINED SPACE ENTRY PERMIT, AND FILL OUT ACCORDINGLY.
 - 5. BAG HOUSE TOP SECTION
 - A) ENTER THE TOP SECTION OF THE CARTER DAY.
 - B) SHINE THE BLACK LIGHT DOWN EACH DUST BAG. LOOK INSIDE THE ENTIRE TUBE FOR THE PRESENCE OF ANY VISOLITE POWDER.
 - C) THE APPEARANCE OF ANY VISOLITE POWDER INDICATES THAT THER IS A LEAK.
 - D) REPLACE ANY BAGS WITH LEAKS IMMEDIATELY.
 - E) ANY CRACKS OR SEAMS THAT ARE LEAKING MUST BE REPAIRED, i.e. CAULKED OR SEALED WITH EPOXY.
 - F) CLOSE DOOR

- 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

Est. Hours:0

Est, Hours: 2

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Go Back PM Edit Actions Options Delete Next PM Date: 04/06/2019 Pmid: _24H10HQWV Asset ID: 601419 Last PM Work Order Date: 02/23/2019 Work Order Type: PM-INSP 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.: Meter Type: N/A Calendar Freq Type: Shadow Daily Average: 0 Last Meter Reading Entry: 0 Last Meter Reading Date: Last PM Produced At: 0 On Calendar?: True Meter To-Date: 0 Skip Mondays?: True Route Sequence: Route: Skip Tuesdays?: True Skip Wednesdays?: True Assign To Type: Maint Supv Skip Thursdays?: True Assign To: Maint-3rd Skip Fridays?: True Perform For Type: n/a Skip Saturdays?: False Perform For: 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: Old_task: PM REVISION LOG: 7/3/07 New

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Go Back PM Edit Delete Actions Options Next PM Date: 04/08/2019 Pmid: 1PO0UGZRJ Asset ID: 124143 Last PM Work Order Date: 03/07/2019 Work Order Type: PM-INSP PM Group: Last PM Work Order No.: 463120 Meter Based Calendar Based Produce Every?: 1 Produce PM Every: 0 Occurs Desc.: Calendar Based Freq.: Months Meter Type: TOTALS Calendar Freq Type: Shadow Daily Average: 0 Last Meter Reading Entry: 0 Last Meter Reading Date: Last PM Produced At: 0 On Calendar?: True Meter To-Date: 0 Skip Mondays?: False Route Sequence: Route: Skip Tuesdays?: False Assign To Type: Maint Supv Skip Wednesdays?: False Assign To: Maint-3rd Skip Thursdays?: False Skip Fridays?: True Perform For Type: n/a 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

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4. AFTER PUMP IS SWITCHED AND ON LINE, VERIFY THAT YOU HAVE THE A MINIMUM OF 150 GPM.

is a backup only.

PM REVISION LOG: 4/16/07 Deactivated - West pump only. No longer gets switched. East

4/2/16 Reactivated PM. Set to 2 weeks from 1 week. VJK

5. REPORT UNUSUAL CONDITIONS TO YOUR SUPERVISOR.

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Est, Hours:0

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Old_task: PUMPSWOVER

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Parts Assets Work Orders Home Navigation Contacts Reports Condition Monitoring PM Center Dashboard Go Back PΜ Edit Delete Actions Options Pmid: 2HY1BB1VX Next PM Date: 04/02/2019 Asset ID: 124143 Last PM Work Order Date: 03/19/2019 Work Order Type: PM-INSP 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 Skip Wednesdays?: False Assign To Type: Maint Supv 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. 1. SLUDGE TANK: INSPECT ENTIRE SLUDGE TANK FOR LEAKS. 2. DRAG CHAIN: 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:
- 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:
- 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.
- REPORT ANY UNUSUAL CONDITIONS TO YOUR SUPERVISOR.

Weblink: Old_task:

PM REVISION LOG: 10/28/08 New

Est. Hours: 0.50

PM REVISION LOG: 10/14/09 New

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	Conditio	on Monitoring	PM Center	Dashboard				
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Go Back PM Delete Actions Options Edit Pmid: _2RQ0X8DJZ Next PM Date: 04/06/2019 Asset ID: 124143 Last PM Work Order Date: 03/30/2019 Work Order Type: PM-INSP Last PM Work Order No.: 465499 PM Group: w/e Meter Based Calendar Based Produce PM Every: 0 Produce Every?: 1 Calendar Based Freq.: Weeks Occurs Desc.: Meter Type: N/A Calendar Freq Type: Static Daily Average: 0 Last Meter Reading Entry: 0 Last Meter Reading Date: Last PM Produced At: 0 On Calendar?: True Meter To-Date: 0 Skip Mondays?: True Route Sequence: Skip Tuesdays?: True Route: Skip Wednesdays?: True Assign To Type: Maint Supv Skip Thursdays?: True Assign To: Maint-3rd Skip Fridays?: True Perform For Type: n/a Skip Saturdays?: False Perform For: 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.

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4. REPORT ANY UNUSUAL CONDITIONS TO YOUR SUPERVISOR.

Weblink:

Old_task: Est. Hours: 4.35

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Edit Delete Actions Options	
Pmid:_1P00UGZRQ	Next PM Date: 04/20/2019
Asset ID: <u>124146</u>	The state of the s
Work Order Type: PM-INSP	Last PM Work Order Date: 03/23/2019
PM Group:w/e	Last PM Work Order No.: 464767
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Route:	Skip Tuesdays?: True
Assign To Type: Maint Supv	Skip Wednesdays?: True
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Perform For Type: n/a Perform For:	Skip Fridays?:True
Task No.: 0613	Skip Saturdays?:False Skip Sundays?:True
1. SHUT DOWN THE EXHAUSTER,	AND LOCK IT OUT.
2. SHUT OFF THE CIRCULATING P	UMPS, AND LOCK THEM OUT.
3. LEAVE THE DRAG CHAIN RUNNI	ING FOR AT LEAST FOUR (4) HOURS.
4. REMOVE YOUR PUMP LOCKOU	TS. RUN THE PUMPS FOR 1/2 HOUR.
5. SHUT PUMPS OFF, LOCK OUT, A	AND BEGIN TO CLEAN THE INSIDE OF COLLECTOR.
*** SCHNEIBLE CONES: START WI	TH THE TOP SECTION AND COMPLETELY WASH DOWN THE CONES.
6. RECORD THE SLUDGE BUILDUF	P, IN INCHES, BEFORE AND AFTER CLEANING.
*** AFTER WASHING DOWN EACH AND PAINT CHIPPING.	COMPARTMENT, INSPECT THE INSIDE OF CONE FOR DAMAGE, WEAR, RUST
7. LEAVE DRAG CHAIN ON. INSPEC	CT AND CLEAN THE DRAIN LINE AND THE TROUGH TO THE SLUDGE TANK.
8. REPORT UNUSUAL CONDITIONS Weblink: Old_task: 4146/7-M-OPINSP Est. Hours: 0	S TO YOUR SUPERVISOR. PM REVISION LOG:

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:		tailed Text: 1	. TOOLS NEED	ED: ADJUST	ABLE WRENCH, FLAS	OR WEEKLY DIFFERENTIAL PRESSURE READINGS HLIGHT, AND AIR HOSE W/GUN. IT ACCESS PLATFORM TO SECOND LEVEL OF DUST COLLECTOR
		В	EFORE YOU S	START P.M		
		3	. DISCONNEC	T LINES AND	BLOW AIR THROUGH	EACH LINE, INSPECT PRESSURE VALVE FOR DIRT BUILD-UP.
		4	. PUT BOTH LI	NES BACK C	N RECORD READ	ING AGAIN,
		5	. RECORD WA	TER FLOW (GPM) FROM THE SAND	SYSTEM PANELVIEW:
		F	LOWT	IME		
		6	, REPORT AN	PROBLEMS	TO YOUR SUPERVISO	DR.
		Weblink:	ORMAL DIFFE	RENTIAL PR	ESSURE READING (>	7 in) NORMAL FLOWRATE (> 150 gpm)
			146/7-W-DIFFF	RESS	PM REVISION LOG	: 10/16/09 Changed "Assign To" from WWT to Maint-1st.
		Old_task:				6/19/13 Added additional information on where to get readings. VJK 11/3/16 Added normal diff press and flowrate. VJK
		Est, Hours:0	the state of the second	5 - 25		

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	2	2. PATCH ALL HOLES	S	
	A	B. IF PIECES OF DUC A. DIAMETER B. LENGTH	OT ARE BEYOND REPAIR, GET THE FOLLOWING INFORMATION:	
,	(C. IF AN ELBOW PIE	CE, GET THE ANGLE. SPECIFIC AS POSSIBLE.)	
	2	I. REPORT ALL REP	AIRS AND DUCT REPLACEMENT NEEDED TO YOUR SUPERVISOR	₹.
	[DUCTWORK SHOUL	DUCTWORK FOR BUILDUP AND CLEAN AS REQUIRED, REPORT D HAVE MINIMAL BUILDUP OF <1" TO BE CONSIDERED CLEAN, T DUCT ENTERS THE BOTTOM OF THE COLLECTOR.	
	Weblink:	magnitudes of the second sections of	PM REVISION LOG: 7/31/07 New	en en en en en en en en en en en en en e
	Old_task:		10/15/07 B.L. Added Item 5. Inlet duct at Base of plugged and contributed to a loss of flow at the 4/7/09 Changed PM frequency from 6wks to 4w	blending drum.
	Est, Hours:	1		•••

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			es to see if damper needs	to be OPENED.	WE SAY THE THOMAS SAY CHITCHIANAMENT AND MEET ST. AT WHITE SAY	The state of the s	AAAA /****
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	Cai	ntinue to check sand p	roperties regularly until it is	s time to change the o	tamper setting.		
	Wh	en time comes to cha	nge the damper setting cor	ntact maintenance to i	make the change.		
	Tur	n PM in once the dam	per setting has been chang	ged.			
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GoTo	13.1	00 Weeks	06/01/2019	MONTH CLE	EAN FACKCLEAN:DUST CO	DILECTOR	03/02/2019	462439	Shadow	3rd Maint-	0.00
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GoTo	6.	00 Months		4160V-6M-IN	NFRARED:4160 VOLT	EQUIPMENT	01/24/2019	458653	Shadow	Maint- 3rd	0.25
<u>GoTo</u>	26.	00 Weeks	III Tahabbaahan	SCHNEIBLE	DUST COLLECTOR	MOTOR LUBE	07/26/2018	440463	Shadow	Maint- 3rd	0.25
<u>GoTo</u>	2.0	00 Weeks	04/04/2019	AUTOLUBE	CANISTER INSPECT	ON	03/21/2019	464716	Shadow	Maint-	0.10
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Edit Delete Actions Options	
Pmid: <u>1PO0UGZRD</u> Asset ID: <u>124142</u>	Next PM Date: 05/18/2019
Work Order Type: PM-INSP PM Group: w/e lendar Based	Last PM Work Order Date: 03/16/2019 Last PM Work Order No.: 464027 Meter Based
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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.: 0620	Skip Sundays?: True
Brief Description: 4142/4-2M-CLEAN:DUST COLLECTOR BLOWER 2 MONT Detailed Text: BEFORE WORKING ON THIS BLOWER LOCK-IT-OUT AN 1. BLOW DOWN MOTOR AND GUARD WITH AIR, REMONT A) INSPECT CONDITION OF COUPLING, TIGHTEN ALL IN	ND HAVE YOUR LOCK-OUT VERIFIED. VE COUPLING AND BEARING GUARD
2. BEARINGS: A) INSPECT FOR BAD PILLOWBLOCK BEARINGS, BLOV B) TIGHTEN SET SCREWS AND MOUNTING BOLTS. C) GREASE BEARING IF REQUIRED, USE EP-2.	VN SEALS ETC.
3. IMPELLER: OPEN INSPECTION DOOR A) INSPECT THE CONDITION OF IMPELLER BLADES, LO B) CLEAN ANY SAND BUILDUP OFF BLADES WITH A WI C) CHECK IMPELLER FOR BEING TIGHT ON SHAFT, TO D) INSPECT CONDITION OF IMPELLER HOUSING FOR N E) CHECK AND BALANCE FAN. F) REINSTALL DOOR.	IRE BRUSH. SHTEN MOUNTING BOLTS.
T) ALINO FALL BOOK.	

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Old_task: 4142/4-2M-CLEAN

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Edit	Delete Actions Options	
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	Perform For:	Skip Saturdays?: False
	Task No.: 0731	Skip Sundays?: True
	Brief Description: 4142/4-M-STACKCLEAN:DUST COLLECTOR BLOWER 3-MONT Detailed Text: 1, OBTAIN A CONFINED SPACE ENTRY PERMIT.	H EXHAUST STACK STAND PIPE CLEANING
	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 FOU Weblink:	
	Old_task: 4142/4-M-STACKCLEAN Est, Hours: 0	PM REVISION LOG:

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			THE TOTAL COME AND CONTRACTOR OF COME COME	DUST COLLECTOR BLOWER WEEKLY INSPECTION
	D	etailed Text: W	HILE THE BLO	WER IS RUNNING, MAKE THE FOLLOWING INSPECTIONS.
		A B) CHECK MOTO	OR FOR VIBRATION & FOR RUNNING HOT. TIGHTEN MOUNTING BOLTS. OR FOR ROUGH OR BAD BEARINGS. DAMAGE OR LOOSE SLINGER.
		Α		CK BEARING: SPECT FOR BAD PILLOW BLOCK BEARINGS. S SHOW RECENT EVIDENCE OF BEING GREASED?
		A B) INSPECT BLO) CHECK FRAM	USING & DUCT WORK: DWER HOUSING FOR DAMAGE, RUST & HOLES. HE FOR CRACKS & BROKEN WELDS. DUCT PIPES TO COLLECTOR AND MACHINE FOR DAMAGE AND RUST HOLES.
		Α	,	AND TANK: MP PUMP TANK FOR LEAKS. MP FOR DAMAGE, FLOAT HOSE & POWER CORD.
		5. Weblink:	REPORT ANY	UNUSUAL CONDITIONS TO YOUR SUPERVISOR.J
			142/4-W-INSP	PM REVISION LOG:
		Fet Houre: 0	OR STREET TO THE PROPERTY OF T	1 III I LLY (O(O) 1 LOO)

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	Pmid: _3HN0LVY7M	Next PM Date:
	Asset ID: <u>124142</u>	,
	Work Order Type: PM-PREDICTIV	Last PM Work Order Date: 01/24/2019
	PM Group: JR	Last PM Work Order No.: 458653
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	Brief Description: 4160V-6M-INFRARED:4	160 VOLT EQUIPMENT INFRARED INSPECTION
		OF EQUIPMENT IS IN OPERATION, TAKE THE FOLLOWING THERMAL READINGS.
	2. EXCERCISE CAUTIO	N WHILE PERFORMING THIS P.M. POWER MUST REMAIN ON.
	3. OPEN DISCONNECT	PANEL.
		CTIONS, FUSES AND FUSE BLOCKS, AND MOTOR STARTER AND CONNECTIONS. MOTOR EAD 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 AMOUNG 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: 4/28/12 Started back up in Emaint.

Est. Hours: 0.25

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	Work	Order Type: F	M-LUBE	Last PM Work Order Date: 07/26/2018
		PM Group:		Last PM Work Order No.: 440463
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	D€	6 1 2 6 8 8 3 6	CHEVRON SR1 BEARING LUBB COTTON FABR WITH THE M BUN UNTIL TH BLEEDER OUT N HAS BEEN A ALLOW THE BREASE.	RICATION STEPS HE AREA AROUND THE GREASE NIPPLES WITH CLEAN HIC. OTOR RUNNING, ADD GREASE WITH A MANUAL GREASE E LUBRICANT COMMENCES TO BE EXPELLED FROM THE LET, OR UNTIL THE QUANTITY OF GREASE RECOMMENDED APPLIED. MOTOR TO RUN LONG ENOUGH TO EJECT ALL EXCESS
		1 2	. OUTPUT SHA 2. FAN SIDE MO	ITITY - 1 PUMP = 1.25 GRAMS AFT SIDE MOTOR BEARING - 60 GRAMS, 48 PUMP DTOR BEARING - 45 GRAMS, 36 PUMPS
		Weblink:	COULD WILL	UNUSUAL CONDITION.
		Old_task:	dane of the his to be a person	PM REVISION LOG: 9/11/14 New 2014-39 1/17/19 Drop PM. Auto Lube canisters installed on motor. VJK
	•	Est, Hours:0	,25	171717 DIOP FW. Addo Edue Callistels ilistalled off filotol. Val

Old_task: Est, Hours: 0.10 Cadillac Casting | My Account : VKOLARIK | Theme | eMaint University | Help

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PM REVISION LOG: 1/16/19 New

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		Asset ID: <u>1241</u>	<u>142</u>								
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Reports Parts Home Navigation Assets Work Orders Contacts Condition Monitoring PM Center Dashboard

Go Back

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PM	
Edit Delete Actions Options	
Pmid: 1PO0UGZRL	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: w/e	Last PM Work Order No.: 452775
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Task No.: 0611	Skip Sundays?: True
	DGE TANK 6 MONTH DRAIN INSPECTION
	ON THIS SLUDGE TANK, LOCK-OUT THE FOLLOWING EQUIPMENT AND HAVE LOCK-OUTS
VERIFIED:	
A) SLUDGE TANK DRA	
B) CIRCULATING PUMF	
C) EXHAUST BLOWER.	•
2. SLUDGE TANK:	
A) DRAIN TANK COMPI	LETELY,
	E OF TANK AND DRAIN AGAIN.
	S & GUIDE RAILS FOR WEAR AND BROKEN WELDS.
D) CHECK ALL BEARIN	
1	ROCKETS FOR WEAR AND FOR BROKEN LINKS,
F) CHECK TANKS FOR G) MAKE ALL REPAIRS	
G) WARE ALL REPAIRS	AS TIME PERMITS.
3. REMOVE YOUR LOC	K-OUTS AND TURN ON ALL DISCONNECTS.
4. REPORT ANY UNUS	UAL CONDITIONS TO YOUR SUPERVISOR.
Weblink:	makken sa araba artikan a kilosa sa sa sa araba sa
Old_task: 4143/5-6M-DRAIN	PM REVISION LOG: 5/2/2016 Changed assigned to from 1st to 3rd. VJK
Est, Hours; 0	······································

Home	Navigatio	n Assets	Work Orders	Contacts	Reports	Parts
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Go Back PM Edit Delete Actions Options Pmid: 1PO0UGZRN Next PM Date: 04/13/2019 Asset ID: 124145 Work Order Type: PM-INSP Last PM Work Order Date: 03/30/2019 Last PM Work Order No.: 465471 PM Group: w/e 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 Skip Tuesdays?: True Route: Assign To Type: Maint Supv Skip Wednesdays?: True Skip Thursdays?: True Assign To: Maint-3rd Skip Fridays?: True Perform For Type: n/a 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 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 - South pump only. No longer gets switched. Old_task: PUMPSWOVER North is a backup only. 4/2/16 Reactivated PM. Set to 2 weeks from 4 weeks. VJK Est. Hours: 0

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drive inspection pm.

Copyright 2019

Est, Hours: 0

PM REVISION LOG: 10/28/08 Changed from WWT to Maint-1st pm.

Annual Contract of the Contrac	Home	Navigatio	n Assets	Work Orders	Contacts	Reports	Parts
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Go Back **PM** Edit Delete Actions Options Pmid: _1PO0UGZRP Next PM Date: Asset ID: 124145 Work Order Type: PM-INSP Last PM Work Order Date: 03/28/2019 PM Group: Last PM Work Order No.: 465335 Calendar Based Meter Based Produce PM Every: 0 Produce Every?: 1 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 Skip Tuesdays?: False Route: Skip Wednesdays?: False Assign To Type: Maint Supv 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: 124145 WEEKLY CHAIN/PUMP Detailed Text: WHILE THE SLUDGE TANK IS IN OPERATION, MAKE THE FOLLOWING INSPECTIONS. 1. SLUDGE TANK: INSPECT ENTIRE SLUDGE TANK FOR LEAKS. 2. DRAG CHAIN: 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: 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 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: 4145-W-CHAIN/PUMP

Est. Hours: 0.20

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	D	etailed Text: E	BEFORE YOU WORK ON T	HESE PUMPS, PULL DISCONNECT ON THE PUMP YOU WANT TO WO	RK ON AND LOCK
			OUT !!		
			ORTH PUMP SOL	ITH PHMP	
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		· 1	, FOR EACH PUMP, MAKE	THE FOLLOWING INSPECTION.	
			A) REMOVE THE BELT GUA		•
		E	B) CHECK CONDITION OF	SHEAVES AND BELT. REPLACE AS REQUIRED.	
				MENT FROM PUMP TO MOTOR. TIGHTEN MOUNTING BOLTS.	
				JMP, ADJUST IF REQUIRED.	
				IND PUMP MOUNTING BOLTS.	
			G) REINSTALL BELT GUAR	OR LEAKS AND LOOSE FITTINGS, TIGHTEN FITTINGS, IF YOU CAN.	
			1) RESTORE POWER IF NE		
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		BEFORE WOR	RKING ON THIS	DUST COLLECTOR, LOC HOURS BEFORE START	
		1. SHUT DOW	/N THE EXHAUS	TER, AND LOCK IT OUT	:
	:	2. SHUT OFF	THE CIRCULATION	NG PUMPS, AND LOCK	THEM OUT.
	;	3. LEAVE THE	DRAG CHAIN R	UNNING FOR AT LEAST	FOUR (4) HOURS.
		4. REMOVE Y	OUR PUMP LOC	KOUTS. RUN THE PUM	IPS FOR 1/2 HOUR.
	:	5. SHUT PUM	PS OFF, LOCK C	UT, AND BEGIN TO CLE	AN THE INSIDE OF COLLECTOR.
		*** SCHNEIBL	E CONES: STAR	T WITH THE TOP SECT	ION AND COMPLETELY WASH DOWN THE CONES.
		6. RECORD T	HE SLUDGE BUI	LDUP, IN INCHES, BEFO	DRE AND AFTER CLEANING.
		*** AFTER WA AND PAINT C		ACH COMPARTMENT, II	NSPECT THE INSIDE OF CONE FOR DAMAGE, WEAR, RUST
		7. LEAVE DRA	G CHAIN ON. IN	SPECT AND CLEAN TH	E DRAIN LINE AND THE TROUGH TO THE SLUDGE TANK.
	Weblink:	8. REPORT UI	NUSUAL CONDI	TIONS TO YOUR SUPER	RVISOR.
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Go Back **PM** Edit Delete Actions Options Next PM Date: Pmid:_1PO0UGZRT Asset ID: 124147 Work Order Type: PM-INSP Last PM Work Order Date: 03/28/2019 PM Group: Last PM Work Order No.: 465337 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 Skip Wednesdays?: False Assign To Type Maint Supv Assign To: Maint-1st Skip Thursdays?: False Perform For Type: n/a Skip Fridays?: True Perform For: Skip Saturdays?: True Task No.: 0690 Skip Sundays?: True Brief Description: 4146/7-W-DIFFPRESS:SCHNEIBLE DUST COLLECTOR WEEKLY DIFFERENTIAL PRESSURE READINGS Detailed Text: 1, TOOLS NEEDED: ADJUSTABLE WRENCH, FLASHLIGHT, AND AIR HOSE W/GUN. 2. RECORD PRESSURE READING FROM METER AT N-E BASE OF DUST COLLECTOR BEFORE YOU START P.M. 3. DISCONNECT LINES AND BLOW AIR THROUGH EACH LINE, INSPECT PRESSURE VALVE FOR DIRT BUILD-UP. 4, PUT BOTH LINES BACK ON RECORD READING AGAIN AT METER. 5. RECORD WATER FLOW (GPM) FROM THE SAND SYSTEM PANELVIEW: FLOW TIME REPORT ANY PROBLEMS TO YOUR SUPERVISOR. NORMAL DIFFERENTIAL PRESSURE READING (> 7 in) NORMAL FLOWRATE (> 150 gpm) Weblink: PM REVISION LOG: 10/16/09 Changed "Assign To" from WWT to Maint-1st. 4146/7-W-DIFFPRESS Old_task: 6/11/13 Added additional information on where to get readings. VJK 11/3/16 Added normal diff press and flowrate readings. VJK

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Asset ID: <u>124144</u>	
Work Order Type: PM-INSP	Last PM Work Order Date: 03/16/2019
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Assign To: Maint-3rd	Skip Thursdays?: True
Perform For Type: n/a	Skip Fridays?: True
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Task No.: 0620	Skip Sundays?: True
Brief Description: 4142/4-2M-CLEAN:DUST COLLECTOR	R BLOWER 2 MONTH CLEAN
	R LOCK-IT-OUT AND HAVE YOUR LOCK-OUT VERIFIED.
A) INSPECT CONDITION OF COUPLIN 2. BEARINGS:	O WITH AIR, REMOVE COUPLING AND BEARING GUARD NG, TIGHTEN ALL MOUNTING BOLTS. LUBRICATE AS REQUIRED.
A) INSPECT FOR BAD PILLOWBLOCK	
B) TIGHTEN SET SCREWS AND MOU C) GREASE BEARING IF REQUIRED, I	·
·	•
	ELLER BLADES, LOOK FOR WEAR, HOLES AND SAND BUILDUP.
B) CLEAN ANY SAND BUILDUP OFF E	BLADES WITH A WIRE BRUSH. BHT ON SHAFT, TIGHTEN MOUNTING BOLTS.
•	ER HOUSING FOR WEAR, RUST AND HOLES.
E) CHECK AND BALANCE FAN.	TOUGHO FOR WEAR, NOOT ARE HOLLS.
F) REINSTALL DOOR,	
4. CHECK FRAME FOR DAMAGE, CRA	ACKS AND LOOSE BOLTS.
5. REPORT ANY UNUSUAL CONDITIO	ONS TO YOUR SUPERVISOR.
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	Brief Description: 2	4142/4-M-STACK(LEAN:DUST COLLECTOR	BLOWER 3-MONTH EXHAUST STACK STAND PIPE CLEANING
	Detailed Text:	1. OBTAIN A CON	FINED SPACE ENTRY PER	RMIT,
	2	2. LOCK OUT EXH	AUST BLOWER.	
	;	3. REMOVE ACCE	SS DOOR.	•
	4	4. SHOVEL OUT N	IUD AND RINSE CLEAN.	
	Ę	5. ROD OUT PIPE	TO SUMP.	
	•	6. CLEAN OUT SU	MP.	
	;	7. REINSTALL AC	CESS DOOR.	·
	{	8. REMOVE LOCK	-OUT.	
		9. DISPOSE OF W	ASTE PROPERLY.	
		10. REPORT ON A	MOUNT OF MUD AND AN	Y PROBLEMS FOUND.
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Asset ID: 124144

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Go Back Options Next PM Date: 04/03/2019 Pmid: 1PO0UGZRI Work Order Type: PM-INSP Last PM Work Order Date: 03/27/2019 Last PM Work Order No.: 465197 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 Meter To-Date: 0 Skip Mondays?: False Skip Tuesdays?: False Skip Wednesdays?: False Assign To Type: Maint Supv Assign To: Maint-2nd 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

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PM REVISION LOG: 9/11/14 New 2014-39

1/17/19 Drop PM. Auto Lube canisters installed on motor. VJK

Old_task:

Est. Hours: 0.25

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Go Back PM Delete Edit Actions Options Next PM Date: 04/04/2019 Pmid:_5E50S54YK Asset ID: 124144 Work Order Type: PM-INSP Last PM Work Order Date: 03/21/2019 PM Group: Last PM Work Order No.: 464717 Calendar Based Meter Based Produce PM Every: 0 Produce Every?: 2 Calendar Based Freq.: Weeks Occurs Desc.: Meter Type: N/A Calendar Freq Type: Shadow Daily Average: 0 Last Meter Reading Entry: 0 Last Meter Reading Date: Last PM Produced At: 0 On Calendar?: True Meter To-Date: 0 Skip Mondays?: False Route Sequence: Skip Tuesdays?: False Route: Assign To Type: Maint Supv Skip Wednesdays?: False Assign To: Maint-3rd Skip Thursdays?: False Skip Fridays?: True Perform For Type: Skip Saturdays?: True Perform For: 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: Old_task: PM REVISION LOG: 1/16/19 New Est. Hours: 0.10

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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

PM REVISION LOG: 6/13/07 Changed pm to include auto shutdown.
6/24/08 Drop PM. Shutdown/started as needed no pm needed. VJK

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Brief Description: RTO-3M-EFANIMP:RTO 3-MONTH EXHAUST FAN IMPELLI Detailed Text: ************************************	**************************************

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

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Condition Monitoring PM Center Dashboard

Go Back PM Edit Delete Actions Options Next PM Date: 06/04/2019 Pmid: 1PO0UH00F Asset ID: 601503 Work Order Type: PM-INSP Last PM Work Order Date: 03/04/2019 PM Group: Last PM Work Order No.: 462634 Calendar Based Meter Based Produce PM Every: 0 Produce Every?: 3 Calendar Based Freq.: Months Occurs Desc.: Meter Type: TOTALS Calendar Freq Type: Shadow Daily Average: 0 Last Meter Reading Entry: 0 Last Meter Reading Date: Last PM Produced At: 0 On Calendar?: True Meter To-Date: 0 Skip Mondays?: False Route Sequence: Skip Tuesdays?: False Route: Assign To Type: Maint Supv Skip Wednesdays?: False Assign To: Maint-2nd Skip Thursdays?: False Skip Fridays?: True Perform For Type: n/a Skip Saturdays?: True Perform For: Task No.: 0313 Skip Sundays?: True Brief Description: RTO-3M-DRVCPLG:RTO 3-MONTH DRIVE COUPLING INSPECTION Detailed Text: 1, BEFORE YOU WORK ON THIS DRIVE UNIT, LOCK-IT-OUT!! 2, DRIVE COUPLING - BETWEEN 700 HP MOTOR AND FAN. A. REMOVE COUPLING GUARD. B. REMOVE FLANGE BOLTS, SEPARATE SLEEVES, AND SLIDE SLEEVES OVER HUBS. C. CLEAN OUT OLD GREASE. D. INSPECT GEAR TEETH FOR WEAR AND FOR DAMAGE. E. INSPECT O-RINGS AND GASKET FOR DAMAGE F. CHECK GAP AT 90 DEGREE WITH FEELER GAUGE, GAP SHOULD BE 0.250 G. CHECK KEY FOR WEAR AND FOR TIGHT FIT. H. TIGHTEN SET SCREWS. 1. COAT HUB AND SLEEVE THOROUGHLY WITH STARPLEX-2 GREASE. J, REASSEMBLE COUPLING, TORQUE BOLTS TO 150 FT, LBS, K. REMOVE LUBE PLUGS AND COMPLETE THE LUBRICATION. L. REINSTALL LUBE PLUGS. M. REINSTALL GUARD. 3. REPORT UNUSUAL CONDITIONS TO YOUR SUPERVISOR. Weblink: PM REVISION LOG: 5/11/12 Moved from 1st to 2nd. Down shift PM. VJK RTO-3M-Old_task: DRVCPLG 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: 0

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Go Back PM Edit Delete Actions Options Next PM Date: Pmid: 1PO0UH00G Asset ID: 601503 Work Order Type: PM-LUBE Last PM Work Order Date: 12/17/2018 Last PM Work Order No.: 455233 PM Group: MDNRE Calendar Based Meter Based Produce PM Every: 0 Produce Every?: 6 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 Skip Tuesdays?: True Route: Skip Wednesdays?: True Assign To Type: Maint Supv Skip Thursdays?: True Assign To: Maint-2nd Skip Fridays?: True Perform For Type: n/a Skip Saturdays?: True Perform For: Task No.: 0276 Skip Sundays?: True Brief Description: RTO-6M-MTR: RTO 6-MONTH 700HP MOTOR LUBRICATION Detailed Text: ** THIS PM IS LINKED TO MONRE 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. OUTBOARD BEARING: LUBRICATE WITH CHEVRON STARPLEX EP2 GREASE, USE TWO (2) SMALL SHOTS OF GREASE. 4. REPORT UNUSUAL CONDITIONS TO YOUR SUPERVISOR. Weblink: RTO-6M-MTR PM REVISION LOG: 11/20/15 Changed assigned to from 1st to 2nd shift maintenance. VJK 11/20/15 Changed to only come out on Monday. VJK Old_task: 5/25/16 Updated grease from Texaco RB2 grease to Chevron Starplex EP2 per Ben McLeod. VJK 1/17/19 Drop PM. Auto Lube canisters installed on motor. VJK

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Brief Description: 4160V-6M-INFR	ARED:4160 VOLT EQUIPMENT INFRARED INSPECTION
Detailed Text: 1, WHILE EACH	PIECE OF EQUIPMENT IS IN OPERATION, TAKE THE FOLLOWING THERMAL READINGS.
2. EXCERCISE (CAUTION WHILE PERFORMING THIS P.M. POWER MUST REMAIN ON.
3. OPEN DISCO	NNECT PANEL.
STARTER COIL BLOCKS, COILS AND TRANSFOI	RMERS MAY ALSO APPEAR HOT, COMPARE SIMILAR CONNECTIONS AND LOOK FOR HOT SPOTS 1. (i.e. WIRE CONNECTIONS ON THE SAME FUSE BLOCK SHOULD BE ABOUT THE SAME
5. FOR ANY HO	T SPOTS FOUND, TAKE PICTURE AND CREATE A PM WORK ORDER FOR REPAIRS.
6. FOR SAFETY	, A MONITOR WILL ACCOMPANY THE PERSON PERFORMING THIS PM:
	OUTSIDE RTO CONTROL ROOM.
Weblink: Old_task: Est, Hours: 0.25	PM REVISION LOG: 4/28/12 Started back up in Emaint.

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PM Edit Delete Actions Options 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 Meter Based Produce PM Every: 0 Produce Every?: 6 Calendar Based Freq.: Months Occurs Desc.: Meter Type: TOTALS Calendar Freq Type: Shadow 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 Skip Wednesdays?: False Assign To Type: Maint Supv Assign To: Maint-1st Skip Thursdays?: False Perform For Type: n/a Skip Fridays?: True Skip Saturdays?: True Perform For: Task No.: 0141 Skip Sundays?: True

- Detailed Text: GIVE TO PREDICATIVE MAINT.
 - 2. THIS P.M. IS TO CHECK THE WATER LOSS OF THE HYDRAULIC FLUID.
 - CLEAN TOP OF HYDRAULIC UNIT AND TAKE OIL SAMPLE.

Brief Description: HYD-6M-GLYCOL: HYDRAULIC UNIT 6-MONTH WATER GLYCOL TEST

- 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.

1. BEFORE YOU WORK ON THIS HYD. UNIT, LOCK-IT-OUT AND HAVE YOUR LOCK-OUT VERIFIED.

PM DEPARTMENT TO DO ITEM 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 DEGREE BRIX MAKE-UP NONE 44,00 - 45.00 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.

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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Edit Delete Actions Options Pmid: 1POOUHOI Next PM Date: 05/11/2019 Asset ID: 801504 Work Order Type: PM-INSP Last PM Work Order Date: 02/09/2019 PM Group: w/e Last PM Work Order No.: 460283 Catendar 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 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: Skip Mondays?: True Assign To Type: Maint Supv Skip Wednesdays?: True Assign To: Maint-2nd Skip Thursdays?: True Perform For Type: ri/a Skip Findsy: 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!! 1. COUPLING (REMOVE GUARD) 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, 828169P ID# 3594 LOCATION 2J05G01A 3. CHECK LEVEL OF HYD. OIL, FILL WITH FR-46 SAFETY FLUID.		
Asset ID: 601504 Work Order Type: PM-INISP 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 Pype: TOTALS Daily Average: 0 Last Meter Reading Entry: 0 Last Meter Reading Entry: 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 Assign To Type: Maint Supy Skip Wednesdays?: True Assign To: Maint-2nd Skip Turedays?: True Assign To: Maint-2nd Skip Thursdays?: True Perform For Type: n/a Skip Fudays?: 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!! 1. COUPLING (REMOVE GUARD) 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.		
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	ELEMENT	
A DEMONE YOUR LOCK AND START HAD TINIT CHECK UNIT FOR HADRAII IC (FAKS	_, FILL WITH FR-46 SAFETY FLUID.	,
4. REMOVE FOOR EOCK AND START THE BUILT ORTHOROUGH ELARO.	START HYD. UNIT, CHECK UNIT FOR HYDRAULIC LEAKS.	
5. REPORT UNUSUAL CONDITIONS TO YOUR SUPERVISOR. Weblink:	TIONS TO VOLIR SUREDVISOR	

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		Brief D	escription: j	RTO-6M-HLUE	RTO 6-MONTH HYDRAULIC UNIT LUBE ROUTING
		Det		BEFORE USIN FR-46 SAFETY	IG THE FILTERING UNIT, MAKE SURE IT IS READY TO USE WITH THE FLUID YOU WILL BE FILTERING, If FLUID.
				MAKE SURE	THAT ALL HOSES AND WANDS ARE CLEAN.
			•	1. CLEAN OFF	THE TOP OF THE OIL RESERVOIR.
			. 2	2, CONNECT 1	THE SUCTION AND RETURN LINES TO THE OIL RESERVOIR TANK.
				3. FILTER THE	FLUID FOR 1 HOUR.
					HE FILTER INDICATOR ON THE FILTERING UNIT, WHEN THE INDICATOR SHOWS "RED", CHANGE THE ONLY A PARKER 928766 FILTER. THIS IS A 10 MICRON BETA 200 90% EFFICIENCY FILTER. IF NONE

6. OBSERVE THE UNIT FOR ANY OPERATIONAL PROBLEMS.

7. REPORT ANY UNUSUAL CONDITIONS TO YOUR SUPERVISOR.

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,

Weblink:

Old_task: RTO-6M-HLUB

DISPOSE OF PROPERLY,

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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	, 3. H	YDRAULIC SYSTE	M PRESSURE WILL RUN A EN 600-820 PSI. NO NOT A				I PRESSURE
	A) V		CESS OIL OFF UNIT. FILL WITH FR-46 SAFETY	FLUID, AS REQUIR	ED.		
	A) C	YDRAULIC SYSTE HECK THE HYDRA HECK ALL FITTING	M: AULIC TUBING FOR DAMA GS AND PIPING FOR LEAK	GE, FOR BENT TUE S. TRY TIGHTENIN	BING. G ANY FITTINGS T	HAT LEAK.	٠.
			ATION OF THE HYDRAULIC				

PM REVISION LOG: 6/9/15 Changed from 1st to 3rd shift. VJK 5/8/2017 Changed pressure reading numbers per Ben McLeod. VJK

YOUR SUPERVISOR.

Weblink:

Old_task: RTO-W-HYD

PM REVISION LOG: 1/20/2007 New

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	Brief Description: Hyd			A contract to the contract of	TOTAL COMMENT OF THE PROPERTY		make the second			
	Detailed Text: Lab	el sample bottle(s) v	ith the equipment number	, date the sample wa	s taken, and oil type	e.				
	Witt tank		bottle, draw sample from u	nit staying away from	n the side of tank, P	ump should be r	unning to circulate			

Fill bottle(s) completely.

Weblink:

Old_task: Est. Hours: 0.25

Take completed PM and sample(s) to the PM office.

Hydraulic unit oil type - FR-46 Safety Fluid

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Asset ID: <u>601504</u>	
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Calendar Based Freq.: Months	Occurs Desc.:
Calendar Freq Type: Shadow	Meter Type: N/A
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trapped pressu 2. Take the lid oil may spill ou 3. Take the repl plastic bag from strapped side is 4. Wipe off the in the lid and ti 5. Open the flo	off of the housing, being careful not to lose the seal. Use the straps to pull up the old filter(s). Some hydraulic t. Wipe out any contaminates from the housing. Cacement filter(s), out of the plastic (be careful not to touch the top of the element) and remove the supplied in the center. Place the new filter in the housing with the up. Take the supplied plastic bag, and place the old filter and any trash in it. 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.
	THE ELEMENT BECOMES COMPLETELY SATURATED. Triple R filter element, Part# 25470, Type WG100, Filter has YELLOW ring. ID#8222, LOC. 2J06H01A
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	· ·	THE RESERVE OF THE PROPERTY OF THE PARTY OF	PROCESS DUCT/INLET/OUT	LET MANIFOLD INSPECTION	
		THIS PM IS LINKED TO 1. ALL RECORDS OF 1 2. NOTIFY HSE MANA	D MDNRE REGULATORY REQ THIS PM ARE TO BE RETAINE GER OF ANY DEVIATIONS.	D FOR 5 YEARS.	·
		1. ENTER THE SMOKE A) LOWER LEVEL - CH LIGHT MEDIUM	HOUSE AND INSPECT THE I HECK WALL FOR CREOSOTE M HEAVY NON ECK WALL FOR CREOSOTE I	EBUILDUP:	RT OF THIS P.N
		B) CHECK DUCT ON T C) CHECK OUTSIDE H			
		3. INLET AND OUTLET CHECK INSULATION A		DOSENESS, AND FOR FALLING OFF DUCT.	
	Weblink:		CONDITIONS TO YOUR SUP	ERVISOR.	
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Go Back PM Edit Delete Actions Options Pmid: 1PO0UH00M Next PM Date: 04/17/2019 Asset ID: 601505 Work Order Type: PM-LUBE Last PM Work Order Date: 01/07/2019 Last PM Work Order No.: 456724 PM Group: Calendar Based Meter Based Produce PM Every: 0 Produce Every?:3 Calendar Based Freq.: Months Occurs Desc.: Meter Type: TOTALS Calendar Freq Type: Shadow Daily Average: 0 Last Meter Reading Entry: 0 Last Meter Reading Date: Last PM Produced At: 0 Meter To-Date: 0 On Calendar?: True Skip Mondays?: False Route Sequence: Skip Tuesdays?: False Route: Assign To Type: Maint Supv Skip Wednesdays?: False Skip Thursdays?: False Assign To: Maint-3rd Perform For Type: n/a Skip Fridays?: True Perform For: Skip Saturdays?: True Task No.: 0289 Skip Sundays?: True Brief Description: RTO-3M-DLUB: "RTO MANIFOLD, INLET & OUTLET DAMPER LUBE ROUTING" Detailed Text: WHILE THE RTO IS IN OPERATION, LUBRICATE THE FOLLOWING BEARINGS. 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** TAG NO. 1-FCV-421 DAMPER 3. REPORT UNUSUAL CONDITIONS TO YOUR SUPERVISOR. Weblink: PM REVISION LOG: 7/26/15 Changed from 1st shift to 3rd shift. VJK Old_task: RTO-3M-DLUB Est, Hours: 0

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			MOVE THE INSPECTION DUCT FOR SAND BUILD		DUCT.		
			CREOSOTE BUILDUP.	our.			
		EINSTALL DOOR.					
	2. M	ANIFOLD INLET - R	EMOVE INSPECTION DO	OOR ON SOUTH W	EST SIDE.		
	A) IN	ISPECT INSIDE FO	R SAND BUILDUP.				
		ISPECT FOR CREO EINSTALL DOOR.	SOTE BUILDUP.		•		
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		ANIFOLD OUTLET - ISPECT INSIDE FO	REMOVE INSPECTION	DOOR ON EAST E	ND.		
	B) IN	SPECT FOR CREC	SOTE BUILDUP.		÷		
	4. PL	JRIFICATION CHAN	1BER - OPEN FIVE (5) I	SPECTION DOOR	S ON NORTH SIDE.		
	CHA	MBER#12	345				
	A) C	HECK INSULATION	AND INSULATION COVE	R ON DOORS FOR	R DAMAGE.		
	B) C	HECK FLOOR INSU	ILATION FOR DAMAGE.				
			BUILDUP OF CERAMIC ASSEMBLY AND BONNE		FOR BROKEN WELL	S BENT SUPPO	ORTS AND
		WARPAGE.	ASSEMBLY AND BOMM	TOTOR BANKOL,	TON BROKEN WELL	o, betti oor i c	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	E) R	EINSTALL DOORS.					
	5. RE	EPORT UNUSUAL (CONDITIONS TO YOUR	SUPERVISOR.	•		
		JPERVISOR TO SC	HEDULE CORRECTIVE	ACTIONS FOR SUN	MER SHUTDOWN.		1111111 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Weblink:	-3M-	PM REVISION LOG: 3/9/	16 Set to fixed PM.	so is done around East	ter, and repairs ca	an be
	Old_task: RTO INTII	NSP			er shutdown, per Broo		
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		*****	*******	***********	***********	****		
		WHILE	THE RTO IS IN	OPERATION, MAKE THE	E FOLLWOING INSPE	CTIONS.		
		1. 6015	05 - MANIFOLD	INLET/OUTLET DAMPE	RS:	÷		
		A) WAT	CH OPERATION	OF EACH DAMPER, LO		R JERKING ACTIO	N WHILE OPEN	ING AND
		CLOSIN B) CHE	-	CH AND ACTUATOR FO	R DAMAGE, CHECK	PROX. CABLE FO	R DAMAGE.	
		C) CHE	CK THE FILTER	BOWL ON EACH DAMP				ACTUATOR IS
		D) INSF		IC TUBING FOR DAMAG	GE, LEAKS, LOOSE H	IANGERS. AND MO	OUNTING BRACK	KETS.
		INLET !		2344		,		
				ON THE S-W SIDE VISU		THERMOCOUPLE	FOR DAMAGE.	INSPECT
		SEALTI	TE FOR DAMAG	E. RECORD THE PDI -				
		INCHES F) OUT		- ON THE N-E SIDE VIS	UALLY INSPECT THE	E THERMOCOUPL	E FOR DAMAGE	. INSPECT
		SEALTI	TE FOR DAMAG	E. RECORD THE PDI -	MAGNEHELIC READ	ING INCHE	S W.C. SHOULD	BE 15 TO 16
		INCHE	S W.C.					
			08 - COMBUSTION		- 1 004750 011 001	ILAN LAGOTTI OF D	LOWER	N WO OLOUID
		BE 29 I		READING FROM GAUGE	E LOCATED ON COL	JIMIN NORTH OF B	LOWER	IN. W.C SHOULD
		2 MAIN	LCAS TRAIN - R	ECORD GAS PRESSUF	DE DOLOHOLIL	3 BE 1 1 BSI		
		o, MAIN	I GAS TRAIN - R	ECORD GAS PRESSUR	KEP3I 3H00LI) DE 1.1 POI.		
		4. BURI	NER NO. 1 EAST	T: BURNER PDI (MAGNE FORIFICE PDIIN V	EHELIC) READINGS:	THATE EDOM 02 I	NIMO TO 4 E IN	IMC
		B) REC	ORD EAST GAS	B/CHAMBER AIR PDI	IN W.C. PDI WIL	L FLUCTUATE FR	OM .2 IN W.C. TO	35 IN W.C.
		5 RHD	NEB NO 314/ES	T: BURNER PDI (MAGN	EHELIO) BEADINGS			
		A) REC	ORD WEST GAS	ORIFICE PDI IN	W.C. PÓI WILL FLUC	TUATE FROM .02		
		B) REC	ORD WEST COM	MB/CHAMBER AIR PDI	IN W.C, PDI WII	L FLUCTUATE FR	:OM .2 IN W.C. T	O 35 IN W.C.
				TS (LOCATED ON N-SID		,		
		A) LOO 2'.	K THROUGH TO	P PORT. OBSERVE FLA	AME ON #1 AND #2 E	URNERS. SHOUL	D BE BLUE AND	EXTEND ABOUT

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

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Go Back PM Edit Delete Actions Options Next PM Date: 06/08/2019 1PO0UH00P Asset ID: 601506 Work Order Type: PM-INSP Last PM Work Order Date: 12/22/2018 Last PM Work Order No.: 455822 PM Group: w/e Calendar Based Meter Based Produce Every?: 24 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 Skip Mondays?: True Route Sequence: Skip Tuesdays?: True Route: 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.: 0287 Skip Sundays?: True Brief Description: RTO-DUCTCLN:RTO DUCT CLEANING

SUPERVISOR DATE AND TIME B. VERIFY THAT

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

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 THECREOSOTE 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.

Est. Hours: 8

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: PM REVISION LOG: 11/7/08 Changed frequency from 4 weeks to 2 months. RTO-1M-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 DUCTCLN Old_task: 3/17/15 Changed number of people from 3 to 1. One person has been cleaning

anymore. VJK

this way for a while per Ben McLeod. VJK

7/19/17 Changed from 8wks to 24 wks per Ben McLeod. Hardly running

Assets Home Navigation Work Orders Contacts Reports Parts **Condition Monitoring** PM Center Dashboard Go Back PM Edit Delete Actions **Options** Pmid: 1PO0UH00Q 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.: 455823 Calendar Based Meter Based Produce PM Every: 0 Produce Every?: 24 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 Skip Thursdays?: True Assign To: Maint-2nd Skip Fridays?: True Perform For Type: n/a Skip Saturdays?: False Perform For: Task No.: 0290 Skip Sundays?: True Brief Description: RTO-1M-SPRKLR:RTO 1-MONTH SPRINKLER HEAD INSPECTION Detailed Text: 1, BEFORE YOU WORK ON THIS PM A) LOCK OUT THE RTO EXHAUST BLOWER. B) SHUT OFF FIRE PROTECTION RISER AND DRAIN THE SYSTEM.

2. SPRINKLER HEAD INSPECTION

AREA BEING DONE.

RTO-1M-

SPRKLR

Weblink:

Old_task:

Est. Hours: 2

A) AFTER THE DUCT/SMOKEHOUSE HAS BEEN CLEANED.

3. RESET FIRE PROTECTION RISER, RISER RESET BY:

1. INSPECT ALL SPRINKLER HEADS IN MAIN DUCT AND POURING DUCT.

MAIN DUCT - 360 DEGREE (PURPLE) HEADS 4A03H08A / ID# 4415 POURING DUCT - 286 DEGREE (BLUE) HEADS 4A03H05A / ID# 4413

2. REPLACE ANY HEAD THAT YOU CAN NOT SEE THE GLASS. USE THE CORRECT SPRINKLER HEAD FOR THE

anymore. VJK

PM REVISION LOG: 11/7/08 Changed frequency from 4-weeks to 2-months.

?? Changed frequency to monthly.

DATE:

3/17/15 Changed frequency from monthly to 8 weeks per Ben McLeod. VJK 7/19/17 Changed from 8wks to 24wks per Ben McLeod. Hardly running

Skip Tuesdays?: False

Skip Thursdays?: False

Skip Saturdays?: True Skip Sundays?: True

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Detailed Text: WHILE THE RTO IS IN OPERATION, MAKE THE EXPANSION JOINT INSPECTIONS.

- 1. INSPECT ALL EXPANSION JOINTS FOR:
- 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.

Brief Description: RTO-3M-EXPJNT:RTO 3-MONTH EXPANSION JOINT INSPECTION

- 2. INSPECT THE FOLLOWING EXPANSION JOINTS:
- 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:

Est. Hours: 0

Route:

Perform For Type: n/a

Perform For:

Assign To Type: Maint Supv

Task No.: 0288

Assign To: Maint-2nd

Old_task: RTO-3M-EXPJNT

PM REVISION LOG:

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Est. Hours: 0

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Assets Home Work Orders **Parts** Navigation Contacts Reports Condition Monitoring PM Center Dashboard Go Back PM Edit Delete Actions Options Pmid: 1PO0UH00S Next PM Date: 06/03/2019 Asset ID: 601507 Work Order Type: PM-LUBE Last PM Work Order Date: 02/28/2019 Last PM Work Order No.: 462346 PM Group: 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 Skip Mondays?: False Route Sequence: Route: Skip Tuesdays?: False Skip Wednesdays?: False Assign To Type: Maint Supv Assign To: Maint-3rd Skip Thursdays?: False Perform For Type: n/a Skip Fridays?: True Perform For: Skip Saturdays?: True Skip Sundays?: True Task No.: 0280 Brief Description: RTO-3M-LUB:RTO DAMPER/PROCESS/STACK/RECIR/FRESH AIR LUBE ROUTING Detailed Text: WHILE THE RTO IS IN OPERATION, LUBRICATE THE FOLLOWING DAMPER BEARINGS 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: RTO-3M-LUB PM REVISION LOG: 6/26/2015 Changed from 1st to 3rd (run shift). VJK

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Go Back PM Edit Delete Actions Options Next PM Date: 04/08/2019 Pmid:_1PO0UH00T Asset ID: 601508 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 PM Every: 0 Produce Every?: 1 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 Skip Tuesdays?: False Route: 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-PM REVISION LOG: 6/23/15 Changed from 1st shift to 2nd shift. VJK Old_task: INFLTR 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

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Reports Parts Work Orders Contacts Navigation Assets Home Dashboard Condition Monitoring PM Center Go Back PM Edit Delete Actions **Options** Pmid: 1PO0UH00U Next PM Date: 04/15/2019 Asset ID: 601508 Last PM Work Order Date: 03/25/2019 Work Order Type: PM-INSP Last PM Work Order No.: 464985 PM Group: Calendar Based Meter Based Produce Every?: 2 Produce PM Every: 0 Calendar Based Freq.: Weeks Occurs Desc.: Meter Type: TOTALS Calendar Freq Type: Shadow Daily Average: 0 Last Meter Reading Entry: 0 Last Meter Reading Date: Last PM Produced At: 0 Meter To-Date: 0 On Calendar?: True Skip Mondays?: False Route Sequence: Skip Tuesdays?: True Route: Skip Wednesdays?: True Assign To Type: Maint Supv Skip Thursdays?: True Assign To: Maint-2nd Perform For Type: n/a Skip Fridays?: True Perform For: Skip Saturdays?: True Task No.: 0277 Skip Sundays?: True

1. BLOWER:

A) INSPECT HOUSING FOR DAMAGE, FOR WEAR, AND FOR FLAKING OF FIBER-GLASS.

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

- 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.

Brief Description: RTO-BW-CBLWR:RTO BI-WEEKLY COMBUSTOR BLOWER INSPECTION

- 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: RTO-BW-**CBLWR**

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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Asset ID: 123551

Last PM Work Order Date: 02/11/2019 Last PM Work Order No.: 460441

PM Group: Calendar Based

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Produce Every?: 2

Work Order Type: PM-INSP

Calendar Based Freq.: Months

Calendar Freq Type: Shadow

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Next PM Date: 04/15/2019

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.: 0304

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: 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 LUBRUICATION, 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:

Old task: DAK-2M-BLWR

PM REVISION LOG:

Est. Hours: 0

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		3. O	N THE CONTROL	PANEL NOTE AND RECOR	D THE PH READING	S.		
		4. R	ECORD THE GPM	OF RECIRCULATING PUM	P. (APPROX. 80 GPN	4)		
			ECORD PRESSUR IAUST.	E DROPS ACROSS THE S	CRUBBER PACKING	BUNDLES AND A	CROSS THE SY	STEM FAN
				S ARE LOCATED ON THE	NORTHWEST SIDE	OF UNIT. TOP MAG	ENEHELIC FOR	EXHAUST FAN

7. REPORT UNUSUAL CONDITIONS TO YOUR SUPERVISOR.

Weblink:

Old_task: DAK-D-PHCHCK

CALIBRATE THE PH PROBE.

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

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-

Est. Hours: 0

(APPROX. 7 IWC) BOTTOM MAGNEHELIC FOR PACKING BUNDLE. (APPROX. 1 IWC)

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		3	3. BLOWER		
				VER FOR VIBRATION.	
				DR FOR RUNNING HOT.	
		(C. TIGHTEN MO	TOR AND FRAME MOUNTING BOLTS.	
		4	4. PIPING		
				PVC PIPING FOR LEAKS.	
				ULATING PUMP FOR LEAKS.	
		(C. CHECK VALVE	E AND FITTINGS FOR LEAKS.	
				ARE PRESENT, VERY CAREFULLY ATTEMPT TO TIGHTEN FITTINGS. N NOT BE STOPPED, NOTIFY YOUR SUPERVISOR, SO REPAIRS CAN BE MADE.	
		ļ	5 SAFETY SHOW	WER/EYE WASH STATION (WEST OF SCRUBBERS)	
			A. TEST EYE WA	ASH STATION TO ENSURE IT WORKS PROPERLY. ER STATION TO ENSURE IT WORKS PROPERLY.	
				CESSARY ADJUSTMENTS AND REPAIRS.	
			6. REPORT UNU	SUAL CONDITIONS TO YOUR SUPERVISOR.	
		Weblink:		THE DEVICE OF THE PROPERTY OF	***************************************
			DAK-W- PMPBLWR	PM REVISION LOG: 6/4/15 Changed from 1st shift to 3rd shift. VJK 3/2/18 Removed motor amps readings from PM due	to Arc Flask Safety.
		m_4 12 7		VJK	
		Est. Hours: 0	J		

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			3. ON THE CO	NTROL PA	ANEL NOTE AND REC	CORD TI	HE PH READIN	IGS.		
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Est. Hours: 0

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ł				WASH STATION AND RIN: TY DEPARTMENT TO INS			15 MINUTES, REF	ORT ANY
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		WASDILLY.		PM REVISION LOG: 1/27/2	2010 New to 2nd shif	ft.	Samuel States and the second s	,
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Detailed Text: 1. USING STARPLEX-2 GREASE, LUBRICATE THE FOLLOWING:

Route Sequence: Skip Mondays?: False Route: Skip Tuesdays?: False Skip Wednesdays?: False Assign To Type: Maint Supv Assign To: Maint-2nd Skip Thursdays?: False Perform For Type: Supplier Skip Fridays?: True Skip Saturdays?: True Perform For: Task No.: 0510 Skip Sundays?: True Brief Description: DAK-2W-LUB: DAKOTA SCRUBBER 2-WEEK LUBRICATION

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.

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		Pmid:_ Asset ID: 1	1PO0UGZEP 23552	Next PM Date: 04/15/2019
		7.000t to. <u>.</u>		
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		C	CHECK V-BELT	R WEAR, CRACKS, ETC.
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			AK-2M-BLWR	PM REVISION LOG:
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		Old_task: DAK	-D-PHCHCK	PM REVISION LO	G: 10/16/09 Changed	"Assign To" from W	WT to Maint-3rd.	

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Edit	Delete Actions Options	
	Pmid:_1P00UGZEV	Next PM Date: 04/03/2019
	Asset ID: <u>123552</u>	
	Work Order Type: PM-INSP	Last PM Work Order Date: 03/27/2019
	PM Group:	Last PM Work Order No.: 465176
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	Perform For Type: n/a	Skip Fridays?: True
-	Perform For:	Skip Saturdays?: True
	Task No.: 0306	Skip Sundays?: True

- 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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Go Back PM Edit Delete Actions Options Next PM Date: 04/01/2019 Pmid: 2UP1F825I Asset ID: 123552 Last PM Work Order Date: 03/25/2019 Work Order Type: PM-INSP Last PM Work Order No.: 464936 PM Group: 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 Meter To-Date: 0 On Calendar?: True Route Sequence: Skip Mondays?: False Skip Tuesdays?: True Route: Assign To Type: Maint Supv Skip Wednesdays?: True Assign To: Maint-1st Skip Thursdays?: True Skip Fridays?: True Perform For Type: n/a Skip Saturdays?: True Perform For: 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. 2/10/11 "Changed splash" apron to "acid suit", per Erik Olson. Old_task: 5/17/18 Changed this PM to be like 3rd shifts PM per Change Request 2018-39. Est, Hours:0

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Est, Hours: 0

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Go Back PΜ Edit Delete Actions Options Next PM Date: 04/10/2019 Pmid: 3QW0SH8AR Asset ID: 123552 Last PM Work Order Date: 03/27/2019 Work Order Type: PM-LUBE PM Group: Last PM Work Order No.: 465241 Calendar Based Meter Based Produce PM Every: 0 Produce Every?: 2 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 Skip Tuesdays?: False Route: Skip Wednesdays?: False Assign To Type: Maint Supv Skip Thursdays?: False Assign To: Maint-2nd 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

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