DEPARTMENT OF ENVIRONMENTAL QUALITY AIR QUALITY DIVISION ACTIVITY REPORT: On-site Inspection

| SRN / ID: N1315 DISTRICT: Marquette |
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| DISTRICT: Marquette |
| |
| COUNTY: DICKINSON |
| ACTIVITY DATE: 02/16/2021 |
| SOURCE CLASS: MAJOR |
| licable state and federal air quality |
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On February 16, 2021 I (Sydney Hewson) performed an onsite inspection at Louisiana Pacific (LP) located at Highway M-95 Sagola, Michigan. While onsite I met with Rich Menard (Environmental Health and Safety Specialist) and Joe Ball (Environmental Technician).

Facility Description:

LP was constructed in 1988 and manufactures resin-bonded oriented strand board. Processes at the plant include log storage and debarking equipment, a log flaker, three flake dryers with cyclone collectors, wet electrostatic precipitators, and a Regenerative Thermal Oxidizer, one wood or bark fired GEKA Thermal Oil Heater with multicyclone and dry electrostatic precipitator (ESP), a mat forming line and board press with a Regenerative Catalytic Oxidizer/Regenerative Thermal Oxidizer (RTO), cold cleaners using non-chlorinated solvent, and four fabric filter dust collectors serving various sawing and sanding operations, the chip screening operation, and the tongue and groove machine.

Emissions from the board press are controlled by a single device that oxidizes VOCs and HAPs either thermally (RTO) or catalytically (RCO). When operating as an RCO a layer of catalyst is placed in the combustion chamber, which allows the oxidation of VOC and HAPs to occur at lower temperatures. If the catalyst deactivates, the RCO can be converted to an RTO simply by increasing the temperature in the combustion chamber. Exposing the catalyst to high temperatures for prolonged periods of time deactivates the catalyst thus an RTO cannot be converted to an RCO unless the new layer of catalyst is placed in the combustion chamber.

The following table lists stationary source emission information as reported to the Michigan Air Emissions Reporting System (MAERS) for the year 2021.

TOTAL STATIONARY SOURCE EMISSIONS

Pollutant

Tons per Year

Carbon Monoxide (CO)

Lead (Pb)

383

0.004

| Pollutant | Tons per Year |
|------------------------------------|---------------|
| Nitrogen Oxides (NO _x) | 130 |
| Particulate Matter (PM) | 30.5 |
| Sulfur Dioxide (SO ₂) | 9 |
| Volatile Organic Compounds (VOCs) | 35 |

| Individual Hazardous Air Pollutants (HAPs) ** | Tons per Year |
|---|---------------|
| Formaldehyde | 7.2 |
| Phenol | 1.1 |
| Total Hazardous Air Pollutants (HAPs) | 8.3 |

Below is a compliance review of the requirements for the emission units and flexible groups listed in the ROP:

EUTOH-WOOD

Description: 60 million BTU per hour heat input Geka Thermal Oil Heater, fired with wood and bark

Pollution Control: Multiclone, Dry Electrostatic Precipitator (ESP)

Emission Limits (SC I. 1-5) :

| Pollutant | Emission Limit | Actual Emissions | Stack Test/Record Date |
|-----------|----------------|------------------|---|
| PM | 11.55 pph | 0.114pph | Stack test performed on December 17-18, 2019 |
| | | | |

| PM10 | 11.5 pph | 0.218 pph | Stack test performed on December 17-18, 2019 |
|------|----------|-----------|---|
| NOx | 16.8 pph | 10.78 pph | Stack test performed on December 17-18, 2019 |
| со | 28.6 pph | 14.45 pph | Stack test performed on December 17-18, 2019 |
| νος | 0.50 pph | 0.21 pph | Stack test performed on December 17-18, 2019 |

Material Limits (SC II.1):

| Material | Emission Limit | Actual Limit | Stack Test/Record Date |
|----------|----------------|----------------------|--|
| Dry Fuel | 30,660 Tons | 15,193 tons dry fuel | 12 month rolling records reviewed (through February 2021) |

Process/Operational Restrictions (SC III. 1): The facility is only burning wood in EUTOH-WOOD

Design/Equipment Parameters (SC IV. 1): The multiclone and Dry Electrostatic Precipitator always operate when the wood fired thermal oil heater is operating. The facility installed a separate natural gas fried preheater to heat the ESP following an outage before starting the thermal oil heater. The heater meets permit to install exemption rule 282(2)(b)(i) for natural gas fuel burning equipment that is use for indirect heating with a rated capacity of less than 50 million btu/hr. The Preheater has a max rating of 2.75 MMBtu/hr.

Testing/Sampling (SC V.1-3):

The Facility tested EUTOH-WOOD for PM, PM10/PM2.5, CO, NOx and VOC emissions on December 17-18, 2019. Results from the most recent stack test are summarized in the emission limit table above, the facility is required to test within 3 years of the most recent test, before December 17, 2022. The facility is in compliance with all testing requirements and emission limits.

Monitoring/Record Keeping (SC VI. 1-2):

- LP performs daily VE readings of the Dry ESP for one minute. During my inspection there were no visible emissions coming from the ESP stack.
- LP maintains monthly fuel usage records for EUTOH-EOOD. I reviewed the records while onsite.

Reporting (SC VII. 1-4): LP Sagola submits acceptable deviation reports, semiannual compliance reports, and annual ROP certification reports to the AQD District Office on time.

EUTOH-NG

Description: A 24 million BTU per hour heat input Geka Thermal Oil Heater, fired with natural gas.

Emission (SC I. 1-5):

| Pollutant | Emission Limit | |
|-----------|----------------|--|
| РМ | 0.17 pph | |
| PM-10 | 0.17pph | |
| NOx | 2.83 pph | |
| со | 1.98 pph | |
| VOC | 0.129 pph | |

Process/Operational Restrictions (SC III. 1):

LP only burns natural gas in EUTOH-NG.

Testing/Sampling (SC V. 1-2):

LP Sagola must test EUTOH-NG if requested by the AQD District Supervisor. AQD has not requested a test on this unit. The unit only operates if EUTOH-WOOD is not operating or if more heat is needed. Actual emissions are assumed to be below the emission limits if the unit only burns natural gas.

Reporting (SC VII. 1-4): LP Sagola submits acceptable deviation reports, semiannual compliance reports, and annual ROP certification reports to the AQD District Office on time. The most recent boiler tune up for EUTOH-NG was done January 6, 2021, records of the tune up are attached to the hard file of this report.

EUPRESS

Description: Press System including the mat forming line and the board press. Emissions from EUPRESS are controlled by a single device that oxidizes VOCs and HAPs either thermally (RTO) or catalytically (RCO).

| Emission | Limits | (SCI. 1-8 |): |
|----------|--------|-----------|----|
|----------|--------|-----------|----|

| Pollutant | Emission Limit | Actual Emissions | Stack Test/Record Date |
|--------------|----------------|------------------|--|
| NOx | 43.0 pph | 9.01 pph | Stack Test Done June 19,2018 |
| NOx | 155 tpy | 30.3 tpy | 12 month rolling records reviewed (through February 2021) |
| со | 0.51 lb/TFP | 0.15 lb/TFP | Stack test done June 19, 2018 |
| VOC | 3.44 pph | 1.88 pph | Stack Test done June 19, 2018 |
| VOC | 12.4 tpy | 6.3 tpy | 12 month rolling records reviewed (through February 2021) |
| PM | 0.072 lb/TFP | 0.039 lb/TFP | 12 month rolling records reviewed (through February 2021) |
| PM-10 | 0.072 lb/TFP | 0.039 lb/TFP | 12 month rolling records reviewed (through February 2021) |
| Formaldehyde | 5.91 pph | 1.79 pph | Stack Test Done June 19, 2018 |

Process/Operational Restrictions (SC III. 1-2)

LP operates the RCO as temperatures greater than 800 degrees F, Records were reviewed during my inspection. During my inspection the RCO temperature was 978 degrees F, the pressure drop was 3.9 inches WC and the flow was 102,300 ACFM.

Design/Equipment Parameters (SC IV. 1):

The facility does not operate EUPRESS without the RCO operating properly.

Testing/Sampling (SC V. 1-4):

LP tested EUPRESS on June 19, 2018. Results from the test are summarized in the emission table above. EUPRESS is due for retesting before June 19, 2018. The facility is in compliance with all testing requirements and emission limits, the next performance test is required to be completed within 5 years of the previous stack test, before June 19, 2023.

Monitoring/Record Keeping (SC VI. 1-3):

LP monitors are records the RCO combustion chamber temperature and the volumetric flow rate on a continuous basis. The parameters I observed while onsite are mentioned above under process and operational restrictions. LP maintains monthly and 12 month rolling NOx and VOC records for EUPRESS, records were reviewed onsite. A shift inspection form with operating parameters on 2/15/2021 is attached to the hard file of this report.

Reporting (SC VII. 1-4): LP Sagola submits acceptable deviation reports, semiannual compliance reports, and annual ROP certification reports to the AQD District Office on time.

EUFORMING:

Description: The forming line system includes the blenders, formers, flying cutoff saw, and forming line. EUFORMING is a CAM subject emission unit subject to the requirements of 40 CFR Part 64. The CAM subject pollutant for this emission unit is PM-10.

Pollution Control Equipment: Baghouse Dust Collector

| Emission | Limits | (SCI. | 1-4): |
|------------|---------|-------|-------|
| LIIIISSION | LIIIILS | 100 | |

| Pollutant | Emission Limit | |
|-----------|-----------------------------|--|
| РМ | 0.01 lb/1000 lb exhaust gas | |
| РМ | 0.9 pph | |
| PM-10 | 0.01 lb/1000 lb exhaust gas | |

PM-10

Process/Operational Restrictions (SC III. 1.)

During my inspection I did not observe any visible emissions from EUFORMING. LP was meeting the 5% opacity limit.

Design/ Equipment Parameters (SC IV. 1)

The baghouse was operating properly during my inspection.

Monitoring/Recordkeeping (SC VI. 1-6)

I reviewed daily Visible Emission (VE) records during my inspection. There were no observed visible emissions from EUFORMING.

The baghouse pressure drop was 0.3 inches of WC during my inspection.

Reporting (SC VII. 1-5)

LP Sagola submits acceptable deviation reports, semiannual compliance reports, and annual ROP certification reports to the AQD District Office on time.

FGDRYER

Description: Three single pass wood flake dryers each with a wet ESP controlled by a single RTO. This units are subject to CAM for PM and PM-10.

Emission Units: EUFLAKE1, EUFLAKE2, EUFLAKE3

Pollution Control Equipment: Wet Electrostatic Precipitator, Regenerative Thermal Oxidizer

Emission Limits (SC I. 1-11):

| Pollutant | Emission Limit | Actual E | Emissions | Stack Test/Record Date |
|----------------|----------------------|-----------------|---|--|
| NOx (Hardwood) | 0.62 lb/TFP Hardwood | 0.36 | lb/TFP | Stack Test done on June 20, 2017 |
| NOx (Softwood) | 1.24 lb/TFP | as an e fact | NOx limit mission or for wood. | **The facility uses around 20% softwood (the permit limit is less than 60%). When calculating emissions, LP uses |

| | | | the actual percentage of each type of wood used and the emission factors for each wood type. |
|----------------|-------------|---|---|
| CO (Hardwood) | 3.64 lb/TFP | 2.27 lb/TFP | Stack Test done on June 20, 2017 |
| CO (Softwood) | 4.39 lb/TFP | LP uses the CO limit as an emission factor for softwood | ** |
| VOC (Hardwood) | 0.29 lb/TFP | 0.089 lb/TFP | Stack Test done on June 20, 2017 |
| VOC (Softwood) | 0.37 lb/TFP | LP uses the VOC limit as an emission factor for softwood | ** |
| PM | 10 pph | 0.74 pph | Stack Test done on June 20, 2017 |
| PM-10 | 10 pph | 0.74 pph | Stack Test done on June 20, 2017 |
| Formaldehyde | 6.8 pph | 0.29 pph | Stack Test done on June 20, 2017 |

Material Limits (SC II. 1.):

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| Material | Limit | Actual | Records Checked | |
|----------|--------------------|--------|---|--|
| Softwood | 60 percent or less | 17.66% | Records reviewed through February 2021 | |

Process/Operational Restrictions (SC III. 1-2):

During my inspection there were no visible emissions from FGDRYERS. This meets the 6-minute average 20% opacity limit. The hourly average combustion chamber temperature of the RTO was 1620 degrees F (permit limit: 1550 degrees F) and the flow out the stack was 97,497 acfm (permit limit: maximum flow rate of 217, 000 actual cubic feet per minute).

Design/Equipment Parameters (SC IV. 1.):

LP has a lock system in place to assure the dryers do not operate unless the Wet Electrostatic Precipitator and the Regenerative Thermal Oxidizer are operating properly.

Testing/Sampling (SC V. 1-2):

LP tested FGDRYERS on June 20, 2017. Results from the test are summarized in the emission table above. FGDRYERS is due for retesting before June 20, 2022. The facility is in compliance with all testing requirements and emission limits.

Monitoring/Recordkeeping (SC VI. 1-11):

LP monitors and records the RTO combustion chamber temperature and the volumetric flow rate through the RTO. The facility maintains 12 month rolling records for NOx, CO, and VOC emissions, and soft wood usage. The facility also monitors continuously and records (twice per shift) the transformer voltage as an indicator of proper operation of the ESP. The indicator range of proper operation is 40 kV to 70 kV. At the time of my inspection each of the transformers were between 43 and 49 kV (readings were 48 and 43 kV) and the ESP appeared to be operating properly. A shift inspection from 2/15/2021 is attached to the hard file of this report, it includes operation parameters for the ESP and RTO.

Reporting (SC VII. 1-6):

LP Sagola submits acceptable deviation reports, semiannual compliance reports, and annual ROP certification reports to the AQD District Office on time.

FGSANDER1

Description: Baghouse controlling particulate emissions from EUSAWLINE, EUTGPATTERN, and EUSANDER. FGSANDER1 is subject to CAM for PM-10.

Pollution Control Device: Baghouse dust collector

Emission Limits (SC I. 1-4):

| Pollutant | Emission Limit |
|-----------|-----------------------------|
| РМ | 0.01 lb/1000 lb exhaust gas |
| PM | 0.68 pph |
| PM-10 | 0.01 lb/1000 lb exhaust gas |
| PM-10 | 0.68 pph |

Process/Operational Restrictions (SC III. 1.):

During my inspection there were no visible emissions observed from FGSANDER1 baghouse.

Monitoring/Recordkeeping (SC VI. 1-6):

LP conducts daily visible emission observations and records the baghouse pressure drop daily. Records were reviewed onsite the pressure drop was 1.9 inches of WC at the time of my inspection (indicator range: 0.1-5.0 inches WC) there were no visible emissions observed. Excursion reports are submitted as required. A shift inspection from 2/15/2021 is attached to the hard file of this report, it includes the daily recorded VE readings for all baghouses onsite.

Reporting (SC VII. 1-6):

LP Sagola submits acceptable deviation reports, semiannual compliance reports, and annual ROP certification reports to the AQD District Office on time.

FGSANDER2

Description: A baghouse controlling particulate emissions from EUTGPATTERN and EUSANDER. This is a CAM subject emission unit for PM10.

Pollution Control Devices: Baghouse

Emission Limits (SC I. 1-4):

| Pollutant | Emission Limit | | |
|-----------|-----------------------------|--|--|
| PM | 0.01 lb/1000 lb exhaust gas | | |

| PM | 1.24 pph | | |
|-------|-----------------------------|--|--|
| РМ-10 | 0.01 lb/1000 lb exhaust gas | | |
| PM-10 | 1.24 pph | | |

Process/Operational Restrictions (SC III. 1): During my inspection there were no visible emissions from FGSANDER2.

Monitoring/Record Keeping (SC VI. 1-6): LP conducts daily visible emission observations and records the baghouse pressure drop daily. Records were reviewed onsite the pressure drop was 0.8 inches of WC at the time of my inspection (indicator range: 0.1-5.0 inches WC) there were no visible emissions observed. Excursion reports are submitted as required.

Reporting (SC VII. 1-6):

LP Sagola submits acceptable deviation reports, semiannual compliance reports, and annual ROP certification reports to the AQD District Office on time.

FGMAIN1

Description: Baghouse controlling particulate emissions from EUSAWLINE, EUTGPATTERN, and EUSANDER. This unit is subject to CAM for PM-10 emissions.

Pollution Control Equipment: Baghouse Dust Collector

Emission Limits (SC I. 1-4):

| Pollutant | Emission Limit | | |
|-----------|-----------------------------|--|--|
| РМ | 0.01 lb/1000 lb exhaust gas | | |
| РМ | 1.6 pph | | |
| РМ-10 | 0.01 lb/1000 lb exhaust gas | | |
| PM-10 | 1.6 pph | | |

Process/Operational Restriction (SC III. 1.):

During my inspection there were no visible emissions from FGMAIN1.

Monitoring/Recordkeeping (SC VI. 1-6):): LP conducts daily visible emission observations and records the baghouse pressure drop daily. Records were reviewed onsite the pressure drop was 2.3 inches of WC at the time of my inspection (indicator range: 0.1-5.0 inches WC) there were no visible emissions observed. Excursion reports are submitted as required.

Reporting (SC VII. 1-6):

LP Sagola submits acceptable deviation reports, semiannual compliance reports, and annual ROP certification reports to the AQD District Office on time.

FGMAIN3

Description: A baghouse controlling particulate emissions from EUSAWLINE, EUFORMING, EUFINISHING1, EUFINISHING2, EUSANDER, EUTGPATTERN, EUHAMMERMILL1, and EUFUELBIN This unit is CAM subject for PM-10.

Pollution Control Equipment: Baghouse

Emission Limits (SC I. 1-4):

| Pollutant | Emission Limit | | |
|-----------|-----------------------------|--|--|
| РМ | 0.01 lb/1000 lb exhaust gas | | |
| PM | 1.1 pph | | |
| РМ-10 | 0.01 lb/1000 lb exhaust gas | | |
| РМ-10 | 1.1 pph | | |

Process/Operational Restriction (SC III. 1.):

During my inspection there were no visible emissions from FGMAIN3.

Monitoring/Recordkeeping (SC VI. 1-6):): LP conducts daily visible emission observations and records the baghouse pressure drop daily. Records were reviewed onsite the pressure drop was 0.9 inches of WC at the time of my inspection (indicator range: 0.1-5.0 inches WC) there were no visible emissions observed. Excursion reports are submitted as required.

Reporting (SC VII. 1-6):

LP Sagola submits acceptable deviation reports, semiannual compliance reports, and annual ROP certification reports to the AQD District Office on time.

FGLAIDIG

Description: A baghouse controlling particulate emissions from EUSAWLINE, EUFORMING, EUSANDER, EUTGPATTERN, EUHAMMERMILL1, and EUFUELBIN

Pollution Control Equipment: Baghouse Dust Collector

Emission Limits (SC I. 1-4):

| Emission Limit |
|-----------------------------|
| 0.01 lb/1000 lb exhaust gas |
| 0.14 pph |
| 0.01 lb/1000 lb exhaust gas |
| 0.14 pph |
| |

Process/Operational Restrictions (SC III. 1.)

During my inspection there were no visible emissions from FGLAIDIG, this unit is compliance with the PM limits.

Reporting (SC VII. 1-6):

LP Sagola submits acceptable deviation reports, semiannual compliance reports, and annual ROP certification reports to the AQD District Office on time.

FGCIRICEMACT

Description: Existing Stationary Emergency Engines located at a Major Source < 500 HP, Commenced Construction Reconstruction before June 12, 2006.

Emission Units: EUFIREPUMP and EUTODIESEL

Process/Operational Restrictions (SC III. 1-6): LP is required to change the oil for each unit every 500 hours of operation or annually whichever comes first. The facility changed the oil for EUFIREPUMP on 12/03/2018 and EUTODIESEL on 05/19/2018. They change the oil for both units on an annual basis. (records are attached to the hard file of this report). Both units operated less than 100 hours per year for maintenance checks and readiness testing.

Design/Equipment Parameters (SC IV. 1.): EUFIREPUMP and EUTODIESEL both have nonresettable hour meters.

Monitoring/Record Keeping (SC VI. 1-5):

Maintenance records were reviewed onsite copies of the most recent oil change and maintenance are attached to the hard file of this report.

Hours of operation were reviewed onsite. EUFIREPUMP total hours of operation were 2977.9 hrs through February 1, 2021, the facility operates the engine 1-10 hours a month for readiness testing and maintenance. EUTODIESEL total hours were 251.8 hours through February 1, 2021, the facility operates this unit 1 or less hours a month for readiness testing and maintenance.

Reporting (SC VII. 1-4):

LP Sagola submits acceptable deviation reports, semiannual compliance reports, and annual ROP certification reports to the AQD District Office on time.

These units are subject to 40 CFR Part 63 Subpart ZZZZ and are in compliance with all standards for emergency generators.

FGSIRICEMACT

Description: Existing Stationary Emergency Engines located at a Major Source < 500 HP, Commenced Construction or Reconstruction before June 12, 2006. The compliance date is October 19, 2013

Emission Units: EUDRYER1BACKUP, EUDRYER2BACKUP, EUDRYER3BACKUP

Process/Operational Restrictions (SC III. 1-6): LP is required to change the oil for each unit every 500 hours of operation or annually whichever comes first. The facility changed the oil for EUDRYER1BACKUP, EUDRYER2BACKUP, and EUDRYER3BACKUP on 08/17/2018. They change the oil for all 3 units on an annual basis. (records are attached to the hard file of this report). All units operated less than 100 hours per year for maintenance checks and readiness testing.

Monitoring/Record Keeping (SC VI. 1-5):

Maintenance records were reviewed onsite copies of the most recent oil change and maintenance are attached to the hard file of this report.

Hours of operation were reviewed onsite. EUDRYER1BACKUP total hours of operation was 26.6 through February 1, 2021, the unit is operated less than 1 hour a month for readiness testing and maintenance. EUDRYER2BACKUP total hours operated was 28.5 through February 1 2021, the unit is operated less than 1 hour a month for readiness testing and maintenance. EUDRYER3BACKUP total hours of operation was 38.4 hours through February 1, 2021, the unit is operated less than 1 hour a month for readiness testing and maintenance.

Reporting (SC VII. 1-4):

LP Sagola submits acceptable deviation reports, semiannual compliance reports, and annual ROP certification reports to the AQD District Office on time.

These units are subject to 40 CFR Part 63 Subpart ZZZZ and are in compliance with all standards for emergency generators.

FGBOILERMACT

Description: Stoker/Sloped Grate/Other wet biomass/bio-based unit requirements for existing Boilers and Process Heaters at major sources of Hazardous Air Pollutants per 40 CFR Part 63, Subpart DDDDD. Additionally, Requirements for existing Gas 1, (Natural Gas only) for existing Boilers and Process Heaters at major sources of Hazardous Air Pollutants per 40 CFR Part 63, Subpart DDDDD.

Emission Unit: EUTOH-WOOD, EUTOH-NG

Emission Limits (SC I. 1-4)

| Pollutant | Emission Limit | Actual Emissions | Stack Test/Record Reviewed |
|---------------|-----------------------------------|---------------------|--|
| HCI | 2.2 x 10-2 lb/MMBtu heat input | 6.0x10-4 lb/MMBtu | Stack Test Done on December 17- 18, 2021 |
| Mercury | 5.7 x 10-6 lb/MMBtu Heat input | 6.3x 10-07 lb/MMBtu | Stack Test Done on December 17- 18, 2021 |
| со | 1500 ppmv dry | 363.0 ppm dry | Stack Test Done on December 17- 18, 2021 |
| Filterable PM | 3.7 x10 -2 lb/MMBtu | 0.0027 lb/MMBtu | Stack Test Done on December 17- 18, 2021 |

Process/Operational Restrictions (SC III. 1-11):

LP Sagola only burns wood in EUTOH-WOOD and Natural Gas in EUTOH-NG. The facility meets the emission limits and work practice standards outlined in Subpart DDDDD. The facility performs annual performance tune ups on EUTOH-NG (last done 01/06/2021 and 5-year tune ups on EUTOH-WOOD (last done 01/12/2017 and an oxygen trim system was installed. Tune up records are attached to the hard copy of this report.

Testing/Sampling (SC V. 1-14):

The facility operates a Continuous Opacity Monitoring System (COMS) on EUTOH-WOOD and has conducted all required performance testing (Results shown in the emission limit table above). The facility conducts performance testing every three years, test plans and stack test reports have all been submitted on time.

Monitoring/Recordkeeping (SC VI. 1-16):

LP has a site-specific monitoring plan for the COMS system, the system is operating whenever EUTOH-WOOD operates. The facility operates the COMS according to Performance Specification 1 at Appendix B to Part 60 of 40 CFR 1. They perform daily calibrations and monitor opacity continuously. The facility operates an O2 analyzer at the outlet of EUTOH-WOOD. The facility maintains records of COMS calibration and operation, boiler start up and shut down, types and amounts of fuel used in the boiler, any malfunctions with the boiler or COMS, and all maintenance activities.

Reporting (SC VII. 1-16)

LP Sagola submits acceptable deviation reports, semiannual compliance reports, annual ROP certification reports, and performance testing reports (including testing notifications 30 days prior to the test) to the AQD District Office on time. The facility also submits test reports to EPA's CEDRI. The facility reports emissions annually to MAERS, 2020 emissions reports have been submitted for audit.

At the time of my inspection LP Sagola appeared to meet the requirements of MI-ROP-N1315-2018 and all other applicable state and federal air quality regulations.

| T-Oil Loop | | | | - | Gek |
|--|--|-------------------|-------|--|--|
| Bark Burner 44 | (paint | DC | lan | _ | IDFI |
| Space Heat | 110 | 110 | | "F | Frim |
| Make up Air | 110 | 11 | 0 | 17 | otuA |
| #1 Pond | 69 | 1 | 9 | 17 | Grate |
| #2 Pond (| 19 | 1 | 15 | - | Grate |
| #3 Pond | 67 | 1 | 74 | | B |
| #4 Pond (| 69 | 7 | 0 | | A |
| Kidney Loop Running | - | Comme | | | |
| Geka ESP | <u>inconti</u> | ynt 1 | Vot 2 | VAR | 31 |
| Vols AC | 200-400 | 385 | 376 | Y | Bark F |
| Amps AC | \$5.75 | 63 | 65 | mA | Bark F |
| Klowatts | \$-21 | 193 | 194 | жw | |
| Milliamps DC | 210-400 | 377 | 380 | mA | BAM 12PM |
| Kilovolts Soarka per Minute | 25-75 | 25 | 8 | KV SPM | 4PM |
| Arcs per Minute | 0-50 | 1-3- | 0 | APM | Burner |
| and the second sec | Annual rate of the little | 160 | 144 | Calle . | |
| SCR Conduction Angl | e 80-360 | 1160 | 177 | SCA | Little G |
| 1 1123'r | 1 | 1 | 1 | | Bark Bi |
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| Space Heat | TROOM | 1000 | F | 1 | Check colls for ka |
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| Outlet Ter | mp ep | | | 1 | No farmaties at |
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| ALL ALL ALL | 10-20 | | 14 | 1. | Al gauges function |
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Above is a photo of daily parameter records for the GEKA and GEKA ESP.



The above photo shows the annual hours of preventative maintenance for each RICEMACT unit.

| 3 | | RICE M | ACT ENGINE | HOURS - S | AGOLA | |
|----------------|-------------------------------|-----------------------|----------------------|----------------------|-------------------------|--------------------|
| 4 | | | | | | 2.57 |
| 5 | DATE | Surface Pony Motor | Core Pony Mator | SIC Pony Motor | Thermal Oil Dresel | Firepond Diesel |
| 96 97 98 | 10/1/20 11/1/20 12/1/20 | 26.4 26.5 26.6 | 28.3 28.4 28.4 | 36.7 36.7 | 250 251.7 | 2058 3 2065 4 |
| 99 00 | 1/1/21 | 26.6 26.6 | 28.5 | 36.8 38.4 38.4 | 251.8 251.8 251.8 | 2067 7 2076 4 |
| 01 02 | 3/1/21 4/1/21 | | | | | 2077.9 |
| 03 | 5/1/21 | A Charles | | | | |

The above photo shows total engine hours for each emergency engine onsite subject to the RICE MACT.

NAME_

DATE 3/17/21 SUPERVISOR EST