Taminco US LLC
Taminco Pace Plant

Facility ID No. 1130004
Santa Rosa County

Title V Air Operation Permit Renewal

Permit No. 1130004-046-AV
(Renewal of Title V Air Operation Permit No. 1130004-035-AV)

Permitting and Compliance Authority:

State of Florida
Department of Environmental Protection
Northwest District

160 W. Government Street, Suite 308
Pensacola, Florida 32502-5740

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Title V Air Operation Permit Renewal

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Section **Page Number**

FLORIDA DEPARTMENT OF Environmental Protection

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PERMITTEE:
Taminco US LLC
4575 Highway 90 East
Pace, Florida 32571-0467

Permit No. 1130004-046-AV
Taminco Pace Plant
Facility ID No. 1130004
Title V Air Operation Permit Renewal

The purpose of this permit is to renew the Title V air operation permit for the above referenced facility. The existing Taminco Pace Plant is located in Santa Rosa County at 4575 Highway 90 East in Pace, Florida. UTM Coordinates are Zone 16, 486.91 km East and 3382.67 km North. Latitude is: 30° 34" 41.0064' and Longitude is: 87° 08" 16.3870'.

The Title V air operation permit is issued under the provisions of Chapter 403, Florida Statutes (F.S.), and Florida Administrative Code (F.A.C.) Chapters 62-4, 62-210 and 62-213. The above named permittee is hereby authorized to operate the facility in accordance with the terms and conditions of this permit.

1130004-046-AV Effective Date: DATE, 2025
Renewal Application Due Date: Exp. DATE -225, 20zz
Expiration Date: Eff. DATE + 5 years, 2030

(Proposed)

_____ _____
Kimberly R. Allen Date
Permitting Program Administrator

KRA/lk

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Subsection A. Facility Description.

Taminco Pace Plant is an existing Chemical Processing Plant, which is categorized under Standard Industrial Classification Code No. 2869. The existing Taminco Pace Plant is comprised of five chemical manufacturing units. Plant Nos. 1 and 4 produce methylamines; Plant No. 2 produces a variety of higher amines, including alkylamines and amylamines; Plant No. 3 processes higher amines; and the DIMLA Plant produces dimethyl laurylamine (DIMLA12), dimethyl myristylamine (DIMLA14), dimethyl hexadecylamine (DIMLA16) and a blend of DIMLA12, DIMLA14 and/or DIMLA16 (e.g. DIMLA1214). The Utilities area contains two boilers and three cogeneration units. The cogeneration units are owned by Florida Power & Light Company but operated by Taminco and permitted separately under Facility ID No. 1130173.

Methylamines Plant Nos. 1 and 4

At Methylamines (MA) Plants Nos. 1 and 4, methanol is continuously reacted with ammonia to yield methylamines. A natural gas-fired preheater is used to reach reaction temperature. Volatile off-gases from the low-pressure absorbers are controlled with the Amines Plants Flare (EU 005) or the boilers (EU 001 and EU 003). Process gases from the high-pressure absorber vents can be routed to the boilers or to the Amines Plants Flare. Visible emissions from the gas-fired heater and the flare are controlled by proper combustion. Wastewater generated is treated in the wastewater treatment system.

Higher Amines Plant Nos. 2 and 3

At Higher Amines Plant Nos. 2 and 3, alcohols, ammonia, ethers, aldehydes, ketones and other amines are reacted to yield various alkylamines and amylamines. A natural gas-fired preheater is used to bring the mixture to reaction temperature. The volatile off-gases from the low-pressure absorbers are controlled by the Amines Plants Flare or the boilers. Process gases from the high-pressure absorber vent in Higher Amines Plant No. 2 can be routed to the boilers or to the Amines Plants Flare. Visible emissions from the gas-fired heater and the flare are controlled by proper combustion. Wastewater generated is treated in the wastewater treatment system.

Amines Plants Flare

The Amines Plants Flare is a non-assisted flare with a natural gas pilot. Off-gases from the product absorbers at MA Plants, the Higher Amines Plants and the DIMLA Plant, as well as other process vents at the facility, are continuously released to the flare for destruction. An infra-red and a flame strength camera are utilized to continuously monitor the flame. The flame strength will alarm the control room operator if the flame goes out. The flare pilot will not relight itself. An alarm delay is built into the computer logic to avoid false alarms during brief instances when weather conditions may disrupt the flame viewed by the camera. Natural gas is fed with process gas in a ratio of 0.3:1 for streams that do not have direct BTU measurement to ensure that the minimum net heating value of gas being combusted by the flare is maintained, and a high flow alarm on the gas flow to the flare ensures that the maximum allowable flare exit velocity is not exceeded.

DIMLA Plant

At the DIMLA Plant, Dimethyl Laurylamine is manufactured from a C12 alcohol (lauryl alcohol), a C14 alcohol (myristyl alcohol), a C16 straight chain alcohol (Hexadecyl alcohol) or a mixture of the C12, C14, and/or C16 alcohols. The alcohol feed (ROH) is reacted with dimethylamine (DMA) in a catalyzed reaction with hydrogen present. Vent streams from the amines absorption column, the amines reactor and the amines desorption column are sent to the low-pressure absorber in the MA Plant No. 1 or in the MA Plant No. 4 or directly to the flare header. Wastewater from the amines desorption column can go to the wastewater treatment system. The water phase from the decanters is also sent to the wastewater treatment system via the wastewater recycle tank TK-62057 or the wastewater tank TK-62099. Residue from the ROH evaporator and a portion of the DIMLA purification column residue are sold or disposed of offsite. Off gases from the vacuum system are recovered using an atmospheric scrubber that feeds the amines absorption column.

Boilers

The Riley Stoker boiler (EU 001) and B&W boiler (EU 003) are designed to burn natural gas and off gases from the amines and dimethyl laurylamine processes. The vent gases are fed through annular burners with natural gas to ensure complete combustion. Each boiler is designed for a maximum firing rate of 130 million British thermal units per hour (MMBtu/hr) and is capable of producing about 90,000 pounds per hour (lb/hr) of 600 pounds per square inch gauge (psig) steam. Flue Gas Recirculation (FGR) has been added to the Riley Stoker boiler for control of NOx emissions. An estimated 50% control of NOx is expected; however, the Riley Stoker Boiler is not required to operate the FGR to stay in compliance because emissions calculations were done without taking the FGR NOx reduction into account.

Florida Power & Light Company owns three cogeneration units located within the Taminco Pace Plant boundaries. Taminco personnel operate the units, but Florida Power & Light Company maintains compliance with a separate Title V air operation permit under Facility ID No. 1130173.

Reciprocating Internal Combustion Engines

The Taminco Pace Plant operates four *existing* stationary, emergency, diesel fueled, compression ignition, reciprocating internal combustion engines (CI RICE):

Equip. I.D.	Area/Location	Existing or New	Construction Commenced Date	Brake hp	Fuel Type
PG24101C	B-Area well water pump	Existing	04/19/1994	234	Diesel
PG24101B	No. 2 well water pump	Existing	04/06/1994	234	Diesel
D24018	Plant emergency generator	Existing	06/07/1991	330	Diesel
PG24121	South Foxtrot fire water pump	Existing	04/15/1994	340	Diesel

These engines are *existing* stationary reciprocating internal combustion engines [per 40 CFR 63.6590(a)(1)(ii)] with a rating of less than 500 brake horsepower (Hp), located at a major source of hazardous air pollutants (HAP) and constructed before June 12, 2006. These stationary CI RICE are subject to 40 CFR 63 Subpart ZZZZ, National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines and must comply with the applicable emission limitations in Table 2c to 40 CFR 63 Subpart ZZZZ for Emergency Stationary CI RICE.

Taminco also operates one *new* stationary, emergency, diesel fueled, compression ignition, reciprocating internal combustion engine:

Equip. I.D.	Area/Location	Existing or New	Construction Commenced Date	Brake hp	Fuel Type
PG24114	Main fire water pump	New	06/2016	268	Diesel

This new CI RICE is regulated by 40 CFR 60, Subpart IIII, Standards of Performance for Stationary Compression Ignition Internal Combustion Engines. The fire pump engine is a "new" stationary emergency CI RICE with a displacement of less than 30 liters per cylinder, located at a major source of HAP, commenced construction on or after 6/12/2006, and has a post-2007 model year.

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Subsection B. Summary of Emissions Units.

EU No.	Brief Description
Regulated Emissions Units	
	Methanol Storage:
029	Methylamines Plant Nos. 1 and 4 HON Group 1 Storage Tanks (Methanol)
047	Methanol Storage HON Maintenance Wastewater
048	Methylamines Plants Sample Points (HON)

EU No.	Brief Description
	Boilers:
001	Riley Stoker Boiler
003	B & W Boiler
	Methylamines Plant No. 1:
005	Amines Plants Flare
006	Methylamines Plant No. 1 Gas Fired Heater
036	Methylamines Plant Nos. 1 and 4 HON Equipment Leaks
046	Sitewide HON Heat Exchangers
049	Methylamines Plant No. 1 Process Vents
050	Methylamines Plant No. 1 Wastewater
051	Methylamines Plant No. 1 HON Maintenance Wastewater
054	Methylamines Plant Nos. 1 and 4 NSPS Storage Tanks
	Higher Amines Plants:
007	Higher Amines Plant No. 2 Gas-Fired Heater
055	72-inch Batch Column Process Vent
056	72-inch Batch Column Maintenance Wastewater
059	72-inch Batch Column Wastewater
070	Higher Amines Plant Process Vents
	Methylamines Plant No. 4:
060	Methylamines Plant No. 4 Gas-Fired Heater
033	Methylamines Plant No. 4 Process Vents
034	Methylamines Plant No. 4 Wastewater
035	Methylamines Plant No. 4 HON Maintenance Wastewater
037	Methylamines Plant No. 4 VOC Equipment Leaks
053	Methylamines Plant Nos. 1 and 4 HON Group 2 Storage Tanks
	DIMLA Plant:
058	DIMLA MON Group 2 Storage Tank
071	DIMLA MON Maintenance Wastewater
072	DIMLA MON Wastewater
077	DIMLA MON Equipment Leaks
078	DIMLA VOC Equipment Leaks
079	DIMLA Scrubber
	Plant Wide:
080	Existing Emergency Reciprocating Internal Combustion Engines (Before 2006)
081	New Emergency Reciprocating Internal Combustion Engine (After 2007)
Unregulated Emissions Units and Activities (see Appendix U, List of Unregulated Emissions Units and/or Activities)	
062	Facility-Wide Equipment Leak Fugitives
063	Cooling Towers (4) (that do not use chromium-based water treatment chemicals)
075	Wastewater Treatment Plant Fugitives
076	DIMLA Storage Tanks and Loading

Also included in this permit are miscellaneous insignificant emissions units and/or activities (see Appendix I, List of Insignificant Emissions Units and/or Activities).

Subsection C. Applicable Regulations.

Based on the Title V air operation permit renewal application received February 24, 2025, this facility is a major source of hazardous air pollutants (HAP). The existing facility is a prevention of significant deterioration (PSD) major source of air pollutants in accordance with Rule 62-212.400, F.A.C.

A summary of applicable regulations is shown in the following table.

Regulation	**EU No(s).**
Federal Rule Citations	
40 CFR 60, Subpart A, NSPS General Provisions	005, 054
40 CFR 60, Subpart Kb, NSPS for Volatile Organic Liquid Storage Vessels After July 23, 1984	054
40 CFR 60, Subpart VVa, NSPS for Equipment Leaks of VOC After November 7, 2006	037, 078
40 CFR 60, Subpart IIII, Standards of Performance for Stationary CI RICE	081
40 CFR 63, Subpart A, NESHAP General Provisions	005, 029
40 CFR 63, Subpart F, NESHAP for the Synthetic Organic Chemical Manufacturing Industry	005, 029, 033, 034, 035, 046, 047, 049, 050, 051, 053
40 CFR 63, Subpart G, NESHAP for Process Vents-Stg Vessels-Transfer Ops-Wastewater	005, 029, 033, 034, 035, 046, 047, 049, 050, 051, 053
40 CFR 63, Subpart H, NESHAP for Equipment Leaks	005, 036, 037, 048
40 CFR 63, Subpart SS	005
40 CFR 63, Subpart FFFF, NESHAP for Miscellaneous Organic Chemical Manufacturing	005, 058, 071, 072, 077, 079
40 CFR 63, Subpart ZZZZ, NESHAP for Stationary Reciprocating Internal Combustion Engines	080
40 CFR 63, Subpart DDDDD, NESHAP for Boilers and Process Heaters	001, 003, 006, 007, 060
State Rule Citations	
Rule 62-210.200(Definitions), F.A.C.	Facility-Wide
Rule 62-210.370, F.A.C., Emissions Computation and Reporting	Facility-Wide
Rule 62-210.900, F.A.C., Forms and Instructions	Facility-Wide
Rule 62-212.400(12), F.A.C., Source Obligation	Facility-Wide
Rule 62-213.205, F.A.C., Annual Emissions Fee	Facility-Wide
Rule 62-296.320(1), (2) & (4), F.A.C., General Pollutant Emission Limiting Standards	Facility-Wide
Rule 62-210.370(3), F.A.C., Annual Operating Report (AOR)	Facility-Wide
Rule 62-213.440, F.A.C., Permit Content	Facility-Wide
Rule 62-210.300(2)(a), F.A.C., Minimum Requirements for All Air Operation Permits	001, 003
Rule 62-210.700, F.A.C., Excess Emissions	054
Rule 62-212.300(1)(e), F.A.C., Actual Emissions Recordkeeping and Reporting Requirements	029, 001, 003
Rule 62-213.440(1), F.A.C., Standard Permit Requirements	029, 001, 003, 006, 007, 060
Rule 62-4.070(3), F.A.C.,	029, 001, 003, 005, 006, 007, 035, 058, 060, 077, 078, 079

Regulation	EU No(s).
Rule 62-204.800, F.A.C., Compliance Assurance, Standards Adopted: NSPS and NESHAP	001, 003, 005, 006, 007, 029, 033, 034, 035, 036, 037, 046, 047, 048, 049, 050, 051, 053, 054, 058, 060, 071, 072, 077, 078, 079, 080
Rule 62-296.406(1), F.A.C., Visible Emissions Requirement for Fossil Fuel Steam Generators with Less Than 250 Million Btu Per Hour Heat Input	001, 003
Rule 62-297.310, F.A.C., General Emissions Test Requirements	001, 003

Definitions:

'HON' is an abbreviation for Hazardous Organic NESHAP (National Emission Standards for Hazardous Air Pollutants).

'MON' is an abbreviation for Miscellaneous Organic NESHAP.

'Group 1 wastewater stream' means a wastewater stream consisting of process wastewater at an existing or new source that meets the criteria for Group 1 status in 40 CFR 63.2485(c) for compounds in Tables 8 and 9 of 40 CFR 63, Subpart FFFF and/or a wastewater stream consisting of process wastewater at a new source that meets the criteria for Group 1 status in 40 CFR 63.132(d) for compounds in Table 8 of 40 CFR 63, Subpart G.

'Group 2 wastewater stream' means any process wastewater stream that does not meet the definition of a Group 1 wastewater stream.

'The MON Rule': 40 CFR 63, Subpart FFFF, National Emissions Standards for Hazardous Air Pollutants, applies to new and existing Miscellaneous Organic Chemical (MON) manufacturers. This regulation indicates that all pressure relief devices (PRDs) in HAP service (except as specified in paragraphs (e)(4) and (5) of 40 CFR 63.2480) must be equipped with a monitoring device by August 12, 2023.

The regulation applies to all existing and new Miscellaneous Organic Chemicals manufacturing process units that have the possibility of emitting Hazardous Air Pollutants. The list of HAPs emitted from the DIMLA MON manufacturing facility includes (but is not limited to) methanol and formaldehyde.

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The following conditions apply facility-wide to all emission units and activities:

FW1. Appendices. The permittee shall comply with all documents identified in Section V, Appendices, listed in the Table of Contents. Each document is an enforceable part of this permit unless otherwise indicated. [Rule 62-213.440, F.A.C.]

Emissions and Controls

FW2. Not federally Enforceable. Objectionable Odor Prohibited. No person shall cause, suffer, allow or permit the discharge of air pollutants, which cause or contribute to an objectionable odor. An "objectionable odor" means any odor present in the outdoor atmosphere which by itself or in combination with other odors, is or may be harmful or injurious to human health or welfare, which unreasonably interferes with the comfortable use and enjoyment of life or property, or which creates a nuisance.

a. The facility will strive for odor and leak free operations by using best available technology and best management practices where feasible to reduce potential odor sources.

b. The facility will perform plant-wide leak checks on a regular basis. The facility shall keep a log of these leak checks recording at a minimum; leak check date, initials of person who performed the leak checks, leaks or problems found if any, corrective action to be taken, and date corrective action was completed.

c. Should an objectionable odor be reported or detected outside the property boundary, the facility will make all reasonable efforts to promptly identify and secure the source of the objectionable odor should the facility determine the odor originated from the plant.

d. The facility will notify the Department within 3 business days after the facility becomes aware of an objectionable odor outside the property boundary after confirming it is the source.

[Rule 62-296.320(2), 62-210.200(Definitions), and 62-213.440(1) F.A.C.]

FW3. General Volatile Organic Compounds (VOC) Emissions or Organic Solvents (OS) Emissions. The permittee shall allow no person to store, pump, handle, process, load, unload or use in any process or installation, volatile organic compounds or organic solvents without applying known and existing vapor emission control devices or systems deemed-necessary and ordered by the Department. [Rule 62-296.320(1), F.A.C.]

{Permitting Note: Nothing is deemed necessary and ordered at this time.}

FW4. General Visible Emissions. No person shall cause, let, permit, suffer or allow to be discharged into the atmosphere the emissions of air pollutants from any activity equal to or greater than 20% opacity. This regulation does not impose a specific testing requirement. [Rule 62-296.320(4)(b), F.A.C.]

FW5. Unconfined Particulate Matter. No person shall cause, let, permit, suffer or allow the emissions of unconfined particulate matter from any activity, including vehicular movement; transportation of materials; construction; alteration; demolition or wrecking; or industrially related activities such as loading, unloading, storing or handling; without taking reasonable precautions to prevent such emissions. Reasonable precautions to prevent emissions of unconfined particulate matter at this facility include:

a. Construction Activities. Stockpiled soils will be wetted down with water or another dust suppressant to control emissions.

b. Road Dust. Plant speed limit on all roads except the mile of paved road between Area A and Area B is 20 miles per hour. The speed limit on the paved road to Area B is 30 miles per hour. All of the main roads in the plant are paved.

c. Abrasive Cleaning. Tarping is used extensively to reduce particulate emissions generated by sandblasting activities in the process areas. When possible and practical, equipment that must be sandblasted is taken to a location that is protected on nearly all sides by trees, which help to knock down any fugitive dust.

Furthermore, when the maintenance experts advise against the use of sandblasting or recommend for the use of other cleaning methods such as needle-gunning or scraping, these alternative methods are employed where possible.

d. Chromium NESHAP Cooling Towers. Particulate emissions from cooling towers are controlled using drift eliminators to catch the entrained droplets, coalesce them, and allow the water to drain back into the cooling tower. In addition, the louvers are designed with an inward slope towards the tower so that any droplets that impinge on the louvers will also drain back into the tower. Finally, since the droplets are wet and heavier than air, most of the relatively few droplets that do escape from the tower fall to the ground a short distance from the tower, before they can evaporate and contribute to airborne particulate emissions.

[Rule 62-296.320(4)(c), F.A.C.; and Permit No. 1130004-010-AC]

Reports and Fees

See Appendix RR, Facility-wide Reporting Requirements for additional details.

FW6. Electronic Annual Operating Report and Title V Annual Emissions Fees. The information required by the Annual Operating Report for Air Pollutant Emitting Facility [Including Title V Source Emissions Fee Calculation] (DEP Form No. 62-210.900(5)) shall be submitted by April 1 of each year, for the previous calendar year, to the Department of Environmental Protection's (DEP) Division of Air Resource Management. Each Title V source shall submit the annual operating report using the DEP's Electronic Annual Operating Report (EAOR) software, unless the Title V source claims a technical or financial hardship by submitting DEP Form No. 62-210.900(5) to the DEP Division of Air Resource Management instead of using the reporting software. Emissions shall be computed in accordance with the provisions of subsection 62-210.370(2), F.A.C. Each Title V source must pay between January 15 and April 1 of each year an annual emissions fee in an amount determined as set forth in subsection 62-213.205(1), F.A.C. The annual fee shall only apply to those regulated pollutants, except carbon monoxide and greenhouse gases, for which an allowable numeric emission-limiting standard is specified in the source's most recent construction permit or operation permit. Upon completing the required EAOR entries, the EAOR Title V Fee Invoice can be printed by the source showing which of the reported emissions are subject to the fee and the total Title V Annual Emissions Fee that is due. The submission of the annual Title V emissions fee payment is also due (postmarked) by April 1st of each year. A copy of the system-generated EAOR Title V Annual Emissions Fee Invoice and the indicated total fee shall be submitted to: **Major Air Pollution Source Annual Emissions Fee, Post Office Box 3070, Tallahassee, Florida 32315-3070.** Additional information is available by accessing the Title V Annual Emissions Fee On-line Information Center at the following Internet web site: http://www.dep.state.fl.us/air/emission/tvfee.htm. [Rules 62-210.370(3), 62-210.900 & 62-213.205, F.A.C.; and, §403.0872(11), Florida Statutes (2013)]

{Permitting Note: Resources to help you complete your AOR are available on the electronic AOR (EAOR) website at: http://www.dep.state.fl.us/air/emission/eaor. If you have questions or need assistance after reviewing the information posted on the EAOR website, please contact the Department by phone at (850) 717-9000 or email at eaor@dep.state.fl.us.}

{Permitting Note: The Title V Annual Emissions Fee form (DEP Form No. 62-213.900(1)) has been repealed. ***A separate Annual Emissions Fee form is no longer required to be submitted by March 1st each year.****}*

FW7. Annual Statement of Compliance. The permittee shall submit an annual statement of compliance to the compliance authority at the address shown on the cover of this permit and to the US. EPA at the address shown below within 60 days after the end of each calendar year during which the Title V air operation permit was effective. (See also Appendix RR, Conditions RR1 and RR7.) [Rules 62-213.440(3)(a)2. & 3. and (b), F.A.C.]

U.S. Environmental Protection Agency, Region 4
Atlanta Federal Center
61 Forsyth Street, SW
Atlanta, Georgia 30303
Attn: Air Enforcement Branch

FW8. Prevention of Accidental Releases (Section 112(r) of CAA).

a. As required by Section 112(r)(7)(B)(iii) of the CAA and 40 CFR 68, the owner or operator shall submit an updated Risk Management Plan (RMP) to the Chemical Emergency Preparedness and Prevention Office (CEPPO) RMP Reporting Center. (See paragraph e., below.)

b. As required under Section 252.941(1)(c), F.S., the owner or operator shall report to the appropriate representative of the Division of Emergency Management, as established by department rule, within one working day of discovery of an accidental release of a regulated substance from the stationary source, if the owner or operator is required to report the release to the United States Environmental Protection Agency under Section 112(r)(6) of the CAA.

c. The owner or operator shall submit the required annual registration fee to the Division of Emergency Management on or before April 1, in accordance with Part IV, Chapter 252, F.S., and Rule 27P-21, F.A.C.

d. Any required written reports, notifications, certifications, and data required to be sent to the Division of Emergency Management, should be sent to: Division of Emergency Management, 2555 Shumard Oak Boulevard, Tallahassee, FL 32399-2100, Telephone: (850) 413-9970, Fax: (850) 488-1739.

e. Any Risk Management Plans, original submittals, revisions, or updates to submittals, should be sent electronically through EPA's Central Data Exchange system at the following address: https://cdx.epa.gov. Information on electronically submitting risk management plans using the Central Data Exchange system is available at: https://www.epa.gov/rmp. The RMP Reporting Center can be contacted at: RMP Reporting Center, Post Office Box 10162, Fairfax, VA 22038, Telephone: (703) 227-7650.

f. Any required reports to be sent to the National Response Center, should be sent to: National Response Center, EPA Office of Solid Waste and Emergency Response, 1200 Pennsylvania Avenue Northwest, Mail Code: USEPA (5101T), Washington, DC 20460, Telephone: (800) 424-8802.

g. Send the required annual registration fee using approved forms made payable to: Cashier, Division of Emergency Management, State Emergency Response Commission, 2555 Shumard Oak Boulevard, Tallahassee, FL 32399-2149

[Part IV, Chapter 252, F.S.; and, Rule 27P-21, F.A.C.]

FW9. Semi-Annual Reports. The permittee shall monitor compliance with the terms and conditions of this permit and shall submit reports at least every six months to the compliance office. Each semi-annual report shall cover the 6-month periods of January 1 – June 30 and July 1 – December 31. The reports shall be submitted by the 60th day following the end of each calendar half (i.e., March 1st and August 29th of every year). All instances of deviations from permit requirements (including conditions in the referenced Appendices) must be clearly identified in such reports, including reference to the specific requirement and the duration of such deviation. If there are no deviations during the reporting period, the report shall so indicate. Any semi-annual reporting requirements contained in applicable federal NSPS or NESHAP requirements may be submitted as part of this report. The submittal dates specified above shall replace the submittal dates specified in the federal rules. All additional reports submitted as part of this report should be clearly identified according to the specific federal requirement. All reports shall include a certification by a responsible official, pursuant to subsection 62-213.420(4), F.A.C. (See also Conditions RR2. – RR4. of Appendix RR, Facility-wide Reporting Requirements, for additional reporting requirements related to

deviations.) [Rule 62-213.440(1)(b)3.a., F.A.C.; and, 40 CFR 60.19(d), 40 CFR 61.10(h) & 40 CFR 63.10(a)(5)]

{Permitting Note: EPA has clarified that, pursuant to 40 CFR 70.6(a)(3), the word "monitoring" is used in a broad sense and means monitoring (i.e., paying attention to) the compliance of the source with all emissions limitations, standards, and work practices specified in the permit.}

Other Requirements

FW10. Actual Emissions Monitoring Reporting. Permit No. 1130004-038-AC (DIMLA Plant expansion project) and Permit No. 1130004-040-AC (Higher Amines Plants expansion project) were based on an analysis that compared baseline actual emissions with projected actual emissions and avoided the requirements of subsection 62-212.400(4) through (12), F.A.C., for several pollutants. Therefore, pursuant to Rule 62-212.300(1)(e), F.A.C., the Permittee is subject to the following monitoring, reporting and recordkeeping provisions.

a. The permittee shall monitor the emissions of any PSD pollutant that the Department identifies could increase as a result of the construction or modification and that is emitted by any emissions unit that could be affected; and, using the most reliable information available, calculate and maintain a record of the annual emissions, in tons per year on a calendar year basis, for a period of 10 years following resumption of regular operations after the change. Emissions shall be computed in accordance with the provisions in Rule 62-210.370, F.A.C.

b. The permittee shall report to the Department within 60 days after the end of each calendar year during the 10-year period setting out the unit's annual emissions during the calendar year that preceded submission of the report. The report shall contain the following:

   (1) The name, address and telephone number of Permittee of the major stationary source;

   (2) The annual emissions as calculated pursuant to the provisions of 62-210.370, F.A.C.

   (3) If the emissions differ from the preconstruction projection, an explanation as to why there is a difference;

   (4) And any other information that the Permittee wishes to include in the report.

c. The information required to be documented and maintained pursuant to subparagraphs 62-212.300(1)(e)1 and 2, F.A.C., shall be submitted to the Department, which shall make it available for review to the general public.

For Permit No. 1130004-038-AC, DIMLA Plant Expansion project, the Department requires the annual reporting of actual nitrogen oxide (NOx) and volatile organic compound (VOC) emissions *for the portion of the following emissions units that are related to DIMLA production*. The method used to estimate emissions shall be the same method used to obtain actual emissions estimates for the construction permit application unless alternative methods are approved in writing by the Department.

EU ID No.	Emissions Unit Description
EU 001	Riley Stoker Boiler
EU 003	B & W Boiler
EU 005	Amines Plants Flare
EU 077	DIMLA MON Equipment Leaks
EU 062	Facility-Wide Equipment Leak Fugitives (Unregulated)
EU 063	Cooling Towers (Unregulated)
EU 076	DIMLA Storage Tanks and Loading (Unregulated)
EU 075	Wastewater Treatment Plant Fugitives (Unregulated)

EU 078	DIMLA VOC Equipment Leaks
EU 058	DIMLA MON Group 2 Storage Tank
EU 071	DIMLA MON Maintenance Wastewater
EU 072	DIMLA MON Wastewater
EU 079	DIMLA Scrubber
N/A	Cogeneration units

[Permit No 1130004-038-AC; and Rules 62-212.300(1)(e) and 62-210.370, F.A.C.]

For Permit No. 1130004-040-AC, Higher Amines Plants Expansion project, the Department requires the annual reporting of actual volatile organic compound (VOC) emissions *for the portion of the following emissions units that are related to Higher Amines production.* The method used to estimate emissions shall be the same method used to obtain actual emissions estimates for the construction permit application unless alternative methods are approved in writing by the Department.

EU ID No.	Emissions Unit Description
EU 001	Riley Stoker Boiler
EU 003	B & W Boiler
EU 005	Amines Plants Flare
EU 007	Higher Amines Plant No. 2 Gas-Fired Heater
EU 055	72-inch Batch Column Process Vent
EU 056	72-inch Batch Column Maintenance Wastewater
EU 059	72-inch Batch Column Wastewater
EU 070	Higher Amines Plants Process Vents
EU 062	Facility-Wide Equipment Leak Fugitives (Unregulated)
EU 063	Cooling Towers (Unregulated)
EU 075	Wastewater Treatment Plant Fugitives (Unregulated)
N/A	Cogeneration units
N/A	D-68201, 68202, 68205, 68206, 68209, 68211, 68213, 68214 (Unregulated)
N/A	D-67116E, I, M, Q and D-67141 (Insignificant Emissions)

[Permit No. 1130004-040-AC; and Rules 62-212.300(1)(e) and 62-210.370, F.A.C.]

{Permitting Note: The annual actual emissions results for these projects may be reported to the Department using the Project Emissions Increase (PEI) Report form included as Figure 2 – PEI Report, in Section V – Appendices. The DIMLA Plant Expansion project and the Higher Amines Plants Expansion project are operationally and financially independent of one another. Therefore, the annual actual emissions for these projects must be reported separately (i.e. a separate project emissions increase (PEI) report must be submitted for each project.).}

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Subsection A. Emissions Unit 029

The specific conditions in this section apply to the following emissions unit:

EU No.	Brief Description
029	Methylamines Plant Nos. 1 and 4 HON Group 1 Storage Tanks (Methanol)

Storage tanks TK-53401B, TK-53405 and TK-53407 are used to store methanol used in the Methylamines Plants. The tanks are painted white, and emissions are controlled by an internal floating roof with double wiper seals and slotted guide pole covers on each tank. Also, the deck is in contact with the liquid surface and pontoons mounted on the top side of the deck keep the deck afloat. Automatic bleeder vents are designed to remain normally closed except when the roof is being floated off or landed on the leg supports. Deck fittings are gasketed or equipped with flexible fabric sleeves to minimize air emissions.

{Permitting Notes: This facility is a participant in EPA's Storage Tank Emission Reduction Partnership Program (STERP) [Federal Register Notice 19891 (April 13, 2000)]. This emissions unit is regulated by 40 CFR 63 Subpart G, National Emission Standards for Organic Hazardous Air Pollutants from the Synthetic Organic Chemical Manufacturing Industry for Process Vents, Storage Vessels, Transfer Operations, and Wastewater (adopted and incorporated by reference in Rule 62-204.800(11)(b)2., F.A.C.). Group 1 storage tank means a storage tank with a capacity greater than or equal to 10,000 gal storing material that has a maximum true vapor pressure of total HAP greater than or equal to 6.9 kilopascals at an existing source or greater than or equal to 0.69 kilopascals at a new source, per 40 CFR 63.2550 (Definitions)}

Essential Potential to Emit (PTE) Parameters

A.1. Hours of Operation. This emission unit may operate continuously (8,760 hours/year). [Rule 62-210.200(PTE), F.A.C.]

Equipment Limitations and Standards

A.2. Group 1 Storage Tanks Equipped with an Internal Floating Roof. Permittee shall reduce hazardous air pollutants emissions to the atmosphere by operating and maintaining a fixed roof and internal floating roof as follows:

a. The internal floating roof shall be floating on the liquid surface at all times except when the floating roof must be supported by the leg supports.

b. When the floating roof is resting on the leg supports, the process of filling, emptying, or refilling shall be continuous and shall be accomplished as soon as practical.

c. Each internal floating roof shall be equipped with a closure device between the wall of the storage vessel and the roof edge. The closure device shall consist of a metallic shoe seal as defined in 40 CFR63.111 of 40 CFR 63 Subpart G.

d. Automatic bleeder vents are to be closed at all times when the roof is floating, except when the roof is being floated off or is being landed on the roof leg supports.

e. Each internal floating roof shall meet the specifications listed in paragraphs (b)(5)(i) through (b)(5)(vii) of 40 CFR 63.119.

f. Each cover or lid on any opening in the internal floating roof shall be closed (i.e., no visible gaps), except when the cover or lid must be open for access.

[Rule 62-204.800(11)., F.A.C., and 40 CFR 63.119(a)(1) and (b)(1) through (b)(6)]

A.3. The EPA's Storage Tank Emission Reduction Partnership Program (STERP).

a. The sliding cover shall be in place over the slotted guide pole opening through the floating roof at all times except when the sliding cover must be removed for access.

b. Tanks taken out of hydrocarbon service, for any reason, do not have to have any controls in place during the time they are out of service.

[Federal Register Notice 19891 (April 13, 2000)]

A.4. This emissions unit is subject to the emission limitations and standards contained in Section IV, Common Conditions:

C.C.1. Startup, Shutdown, and Malfunction Plan.

C.C.4. Excess Emissions and Data Obtained During Startups, Shutdowns, and Malfunctions.

Test Methods and Procedures

A.5. Inspection Requirements. Permittee shall visually inspect the internal floating roofs and the secondary seals through manholes and roof hatches on each fixed roof at least once every 12 months after January 27, 1998. Also, Permittee shall visually inspect each internal floating roof, the primary and secondary seals, gaskets, slotted membranes, and sleeve seals (if any) each time the storage vessel is emptied and degassed, and at least once every ten years after April 22, 1997. If during an inspection, an internal floating roof is not resting on the surface of the liquid inside the storage vessel and is not resting on the leg supports; or there is liquid on the floating roof; or the seal is detached; or there are holes or tears in the seal fabric; or there are visible gaps between the seal and the wall of the storage vessel, repairs shall be made to the equipment or storage vessel must be emptied and removed from service within 45 calendar days. If a failure is detected that cannot be repaired within 45 calendar days and if the vessel cannot be emptied within 45 calendar days, Permittee may utilize up to two extensions of up to 30 additional calendar days each, provided that documentation of a decision to utilize an extension is maintained that includes a description of the failure, that documents that alternate storage capacity is unavailable, and that specifies a schedule of actions that will ensure that the control equipment will be repaired or the vessel will be emptied as soon as practicable. If during the inspections, the internal floating roof has defects; or the primary seal has holes, tears, or other openings in the seal or the seal fabric; or the secondary seal has holes, tears, or other openings in the seal or the seal fabric; or the gaskets no longer close off the liquid surface from the atmosphere; or the slotted membrane has more than 10 percent open area, the repairs shall be made before the vessel is refilled with organic HAP. [Rule 62-204.800(11), F.A.C., 40 CFR 63.120(a)(2), (4) & (7)]

A.6. Storage Tank Emission Reduction Partnership Program (STERP). Permittee shall visually inspect the deck fitting for the slotted guide pole at least once every ten years and each time the vessel is emptied and degassed. If the slotted guide pole deck fitting or control devices have defects, or if a gap of more than 0.32 centimeters (1/8 inch) exists between any gasket required for control of the slotted guide pole deck fitting and any surface that is intended to seal, such items shall be repaired before filling or refilling the storage vessel with regulated material. [Federal Register Notice 19891 (April 13, 2000)]

Recordkeeping and Reporting Requirements

A.7. Reporting Schedule. The following reports and notifications shall be submitted to the Compliance Authority:

Report	Reporting Deadline	Related Condition(s)
Periodic Reports	Semi-Annual	**A.9.**
Notifications	30 Days Prior to Event	**A.10.**
Other Reporting Requirements	As required by Administrator	**A.12.**

[Rule 62-213.440(1)(b), F.A.C.]

A.8. Other Reporting Requirements. See Appendix RR, Facility-Wide Reporting Requirements, for additional reporting requirements. [Rule 62-213.440(1)(b), F.A.C.]

A.9. Periodic Reports. Periodic reports are to include a summary of the results of each internal or external inspection conducted in which a failure was detected with the date of the inspection, identification of the storage vessel in which a failure was detected and a description of the failure. Also, the nature of and date the repair was made or the date the storage vessel was emptied is to be documented. [Rule 62-204.800(11), F.A.C., 40 CFR 63.122(a)(4) & (5), (d), and 40 CFR 63.123(a), (c) & (g)]

A.10. Notification Requirements. Except as provided below, for all the inspections, Permittee shall notify the Department in writing at least 30 calendar days prior to the refilling of each storage vessel to afford the Department the opportunity to have an observer present. If the required inspections are not planned and Permittee could not have known about the inspection 30 calendar days in advance of refilling the vessel, Permittee shall notify the Department at least seven calendar days prior to the refilling of the storage vessel. Notification made by telephone shall be immediately followed by written documentation demonstrating why the inspection was unplanned. Documentation pertaining to the utilization of any extensions is to be included. Alternatively, the notification including the written documentation may be made in writing and sent so that it is received by the Department at least seven calendar days prior to refilling. [Rule 62-204.800(11), F.A.C., and 40 CFR 63.120(a)(5) & (6)]

A.11. Tank Records. Records showing each tank's dimensions and capacities and records of each inspection shall be maintained as long as the tank retains Group 1 status under the HON and is in operation. [Rule 62-204.800(11), F.A.C., and 40 CFR 63.123(a) & (c)]

A.12. Other Recordkeeping and Reporting Requirements. This emissions unit is subject to the recordkeeping and reporting requirements contained in Section IV, Common Conditions:

C.C.1. Startup, Shutdown, and Malfunction Plan

C.C.3. Recordkeeping and Reporting of Startups, Shutdowns, and Malfunctions

C.C.5. General Recordkeeping Requirements

C.C.6. General Reporting Requirements for Specific Emission Units Subject to 40 CFR 63 Subpart G

C.C.8. Schedule of Reporting for Specific Sources Subject to 40 CFR 63 Subparts F, G and H

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The specific conditions in this section apply to the following emission unit:

EU No.	Brief Description
046	Sitewide HON Heat Exchangers

This emissions unit is comprised of non-contact heat exchangers E-671119 and E-67032 used to cool process fluids at the Amines Plants.

{Permitting Note: This emissions unit is subject to 40 CFR 63 Subpart F, National Emission Standards for Organic Hazardous Air Pollutants from the Synthetic Organic Chemical Manufacturing Industry, Hazardous Organic NESHAP (HON) (adopted and incorporated by reference in Rule 62-204.800(11)(b)1., F.A.C.).}

The following specific conditions apply to the emissions unit listed above:

Essential Potential to Emit (PTE) Parameters

B.1. Hours of Operation. This emissions unit is allowed to operate continuously, i.e., 8,760 hour/year. [Rule 62-210.200(PTE), F.A.C.]

Operating Conditions and Standards

B.2. Heat Exchangers – Monitoring Requirements. All sitewide heat exchange systems not meeting the conditions specified in 40 CFR 63.104(a)(1) through (6), shall be monitored by inspecting the cooling water for the presence of one or more organic HAPs or other representative substance whose presence in cooling water indicates a leak as specified in 40 CFR 63.104(b)(1) through (6), or by using a surrogate indicator of heat exchanger system leaks as specified in 40 CFR 63.104(c)(1) through (3). [Rule 62-204.800(11), F.A.C., and 40 CFR 63.104(a), (b), & (c)]

B.3. Heat Exchanger – Repair Requirements. Any leaks that are detected shall be repaired as soon as practical but not later than 45 days after Permittee receives results of monitoring tests indicating a leak. After repair, Permittee shall confirm that the heat exchange system has been repaired within seven calendar days of the repair or startup, whichever is later. Repairs may be delayed beyond 45 days if the criteria specified in 40 CFR 63.104(e) are met. [Rule 62-204.800(11), F.A.C., 40 CFR 63.104(d) & (e)]

Recordkeeping and Reporting Requirements

B.4. Reporting Schedule. The following reports and notifications shall be submitted to the Compliance Authority:

Report	Reporting Deadline	Related Condition(s)
Periodic Reports	Semi-Annual - only if permittee invokes the delay of repair	**B.6**
Other Reporting Requirements	As required by Administrator	**B.7**

[Rule 62-213.440(1)(b), F.A.C.]

B.5. Other Reporting Requirements. See Appendix RR, Facility-Wide Reporting Requirements, for additional reporting requirements. [Rule 62-213.440(1)(b), F.A.C.]

B.6. Heat Exchanger – Recordkeeping Requirements. Permittee shall maintain records of required monitoring, leaks detected, the date when leak was detected, (if demonstrated not to be a leak, the basis for that determination), the dates of efforts to repair leaks, and the method or procedures used to confirm repair of a leak and the date the repair was confirmed. Periodic reports are required only if Permittee invokes the delay of repair. Periodic reports shall include information required by 40 CFR 63.104(f)(2). [Rule 62-204.800(11), F.A.C., and 40 CFR 63.104(f)]

B.7. Other Recordkeeping and Reporting Requirements. This emissions unit is subject to the limitations and standards contained in Section IV, Common Conditions:

C.C.5. General Recordkeeping Requirements

C.C.6. General Reporting Requirements for Specific Emission Units Subject to 40 CFR 63 Subpart G

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The specific conditions in this section apply to the following emissions unit:

EU No.	Brief Description
047	Methanol Storage HON Maintenance Wastewater

Methanol storage equipment is flushed out in order to prepare the equipment for maintenance. Emission estimates of HAP are based on all methanol tanks flushed and cleaned during the same year, and ancillary equipment (i.e., pumps, piping and valves) cleaned and flushed more frequently. This emissions unit is composed of the methanol-containing wastewater resulting from the flushing activity. The Methanol Storage HON Maintenance Wastewater is treated in the plant wastewater system.

EUs for individual plant wastewater are for regulatory purposes only. Emissions from all wastewater have been included under EU 075, Wastewater Treatment Plant Fugitives.

{Permitting Note: This emissions unit is regulated by 40 CFR 63 subpart F, National Emission Standards for Organic Hazardous Air Pollutants from the Synthetic Organic Chemical Manufacturing Industry, Hazardous Organic NESHAP (HON) (adopted and incorporated by reference in Rule 62-204.800(11)(b)1., F.A.C.).}

Essential Potential to Emit (PTE) Parameters

C.1. Hours of Operation. This emissions unit is allowed to operate on an as-needed basis. [Rule 62-210.200(PTE), F.A.C.]

Operational Conditions and Standards

C.2. Management of Wastewaters Containing HAP. Permittee shall maintain a record of maintenance procedures for management of wastewaters containing those organic HAPs listed in Table 9 of 40 CFR 63 Subpart G**,** which are generated from the emptying and purging of equipment in the process during temporary shutdowns for inspections, maintenance, and repair (i.e., a maintenance-turnaround) and during periods which are not shutdowns (i.e., routine maintenance). The record of maintenance procedures shall:

a. Specify the process equipment or maintenance tasks that are anticipated to create wastewater during maintenance activities,

b. Specify procedures that will be followed to properly manage the wastewater and control organic HAP emissions to the atmosphere, and

c. Specify the procedures to be followed when clearing materials from process equipment.

The permittee shall modify and update the maintenance procedures as needed.

[Rule 62-204.800(11), F.A.C., 40 CFR 63.105(b) & (c)]

Recordkeeping and Reporting Requirements

C.3. Startup, Shutdown, and Malfunction Plan Records. Permittee shall incorporate the procedures and maintain a record of the information required by 40 CFR 63.105(b) & (c) as part of the startup, shutdown, and malfunction plan required under 40 CFR 63.6(e)(3). Plans shall be maintained and kept readily available for inspection for the life of the source, or until 40 CFR 63 standards no longer apply to the source. Previous versions of plans shall also be maintained for a period of five years following revision. No notification or periodic reporting of maintenance wastewater activities is required. [Rule 62-204.800(11), F.A.C., 40 CFR 63.105(d) & (e)]

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The specific conditions in this section apply to the following emissions unit:

EU No.	Brief Description
048	Methylamines Plants Sample Points (HON)

This emissions unit is composed of points in the process where the methanol is sampled for testing and consists solely of various sample points in the process.

{Permitting Notes: This emissions unit is regulated by 40 CFR 63 Subpart H, National Emission Standards for Organic Hazardous Air Pollutants for Equipment Leaks, Hazardous Organic NESHAP (HON) (adopted and incorporated by reference in Rule 62-204.800(11)(b)3., F.A.C.). HON requires that sample purges be contained and returned to the process.}

Essential Potential to Emit (PTE) Parameters

D.1. Hours of Operation. This emissions unit is allowed to operate continuously, i.e., 8,760 hour/year. [Rule 62-210.200(PTE), F.A.C.]

Operating Conditions and Standards

D.2. Sampling Points in Organic HAP Service. Each sampling connection system shall be equipped with a closed-purge, closed-loop, or closed-vent system. Gases displaced during filling of the sample container are not required to be collected or captured. Each sampling system shall meet one of the following specifications:

a. Return the purged process fluid directly to the process line; or

b. Collect and recycle the purged process fluid to a process; or

c. Be designed and operated to capture and transport the purged process fluid to a control device that complies with the requirements of 40 CFR 63.172; or

d. Collect, store, and transport the purged process fluid to a system or facility identified below:

(1) A waste management unit, or
(2) A treatment, storage, or disposal facility, or
(3) A facility permitted, licensed, or registered by a State to manage municipal or industrial solid waste, if the process fluids are not hazardous waste.

[Rule 62-204.800(11), F.A.C., and 40 CFR 63.166]

Recordkeeping and Reporting Requirements

D.3. Reporting Schedule. The following reports and notifications shall be submitted to the Compliance Authority:

Report	Reporting Deadline	Related Condition(s)
Title V Semiannual Progress Reports	Semi-Annual - any instances of non-compliance must be included in report	**D.5.**

[Rule 62-213.440(1)(b), F.A.C.]

D.4. Other Reporting Requirements. See Appendix RR, Facility-Wide Reporting Requirements, for additional reporting requirements. [Rule 62-213.440(1)(b), F.A.C.]

D.5. Title V Semiannual Progress Reports. Permittee shall maintain records specified in 40 CFR 63.181(b)(1)(i) and no periodic reporting is required under 40 CFR 63.182. Notwithstanding, Title V semiannual progress reports shall be submitted that identify any instances of non-compliance and annual Title V compliance certification reports must certify whether or not compliance with applicable requirements has been achieved. [Rule 62-204.800(11), F.A.C. and 40 CFR 63.181] Back to Table of Contents

Subsection E. Emission Unit 001

The specific conditions in this section apply to the following emissions unit:

EU No.	Brief Description
001	Riley Stoker Boiler

The Riley Stoker Boiler produces up to 90,000 pounds per hour of 600 psig steam, which is equivalent to 128 MMBtu per hour heat input (1,121,280 MMBtu per year), assuming 80% boiler efficiency. The boiler startup date was November 26, 1955. The boiler is fueled by natural gas and process off-gases.

The boiler burns only gaseous fuels, as defined in 40 CFR 63.7575, which includes, but is not limited to, natural gas and process gas. The boiler is in the subcategory of 'units designed to burn gas 1 fuels'. Boilers in the subcategory of units designed to burn gas 1 fuels are not subject to the emission limits in Tables 1 and 2 or 11 through 13 to 40 CFR 63 Subpart DDDDD, or the operating limits in Table 4 to Subpart DDDDD, per 40 CFR 63.7500(e). Fuel gas system means the offsite and onsite piping and flow and pressure control system that gathers gaseous stream(s) generated by onsite operations, may blend them with other sources of gas, and transports the gaseous stream for use as fuel gas in combustion devices or in-process combustion equipment, such as furnaces and gas turbines, either singly or in combination.

{Permitting Notes: This emissions unit is regulated by Rule 62-296.406, F.A.C. – Fossil Fuel Steam Generators with Less than 250 Million Btu Per Hour Heat Input. This emissions unit is also regulated by 40 CFR 63, Subpart DDDDD – National Emissions Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters (Boiler MACT) (adopted and incorporated by reference in Rule 62-204.800(11)(b)86., F.A.C.).}

Essential Potential to Emit (PTE) Parameters

E.1. Capacity. The maximum allowable operating rate of the Riley Stoker Boiler is 128 MMBtu per hour, averaged daily. [Rules 62-210.200 (PTE), 62-213.440(1), F.A.C.; Permit No. 1130004-019-AC]

E.2. Methods of Operation (Fuel). The boiler may operate using natural gas and process off-gases. Process liquids and used oil are not permitted to be burned in this unit. [Rule 62-210.200(PTE), F.A.C.; Permit No. 1130004-019-AC; and Permit No. 1130004-029-AC]

E.3. Hours of Operation. This emissions unit is allowed to operate continuously, i.e., 8,760 hours/year. [Rule 62-210.200(PTE), F.A.C.]

Emission Limitations and Standards

Unless otherwise specified, the averaging times are based on the specified averaging time of the applicable test method.

E.4. Visible Emissions. Visible emissions shall not exceed 20 percent opacity except for one six-minute period per one-hour period during which opacity shall not exceed 27 percent. [Rule 62-296.406(1), F.A.C.]

Test Methods and Procedures

E.5. Test Methods. Required tests shall be performed in accordance with the following reference method:

EPA Method	Description of Method and Comments
9	Visual Determination of the Opacity of Emissions from Stationary Sources

The above method is described in 40 CFR 60, Appendix A, and adopted by reference in Rule 62-204.800, F.A.C. No other method may be used unless prior written approval is received from the Department. [Rule 62-204.800, F.A.C.]

E.6. Common Testing Requirements. Unless otherwise specified, tests shall be conducted in accordance with the requirements and procedures specified in Appendix TR, Facility-Wide Testing Requirements, of this permit. [Rule 62-297.310, F.A.C.]

{Permitting Note: Air compliance test notifications can now be completed online in the Department's Business Portal. To access this online process, go to http://www.fldepportal.com/go/home and sign in (or register if you're a new user) from the link in the upper right corner of the page. On the Welcome page select the Submit option, then select Registration/Notification, and then click on Air Compliance Test Notifications. Once in the process, just carefully read the instructions on each screen (and under the Help tabs) to complete the notification.}

E.7. Compliance Tests Prior To Renewal. Except as provided in subparagraph 62-297.310(8)(b)3., F.A.C. (see condition TR7.b.(3) in Appendix TR – Facility-wide Testing Requirements), compliance tests shall be performed for visible emissions (VE) prior to obtaining a renewed operation permit to demonstrate compliance with the visible emissions limits in **Specific Condition E.4. Visible Emissions** [Rules 62-210.300(2)(a) and 62-297.310(8)(b), F.A.C.]

{Permitting Note: Tests which are only required once during the term of a permit prior to obtaining a renewed permit should be performed roughly five years from the previous test.}

Work Practice Standards

E.8. Operation and Maintenance. At all times, the Permittee must operate and maintain any affected source (as defined in 40 CFR 63.7490), including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator that may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source. [Rule 62-204.800(11), F.A.C., and 40 CFR 63.7500(a)(3)]

Compliance Requirements

E.9. General Requirements. At all times you must be in compliance with the work practice standards in 40 CFR 63 Subpart DDDDD except for the periods noted in 40 CFR 63.7500(f). [Rule 62-204.800(11), F.A.C., and 40 CFR 63.7505(a)]

E.10. Annual Tune Ups Required. Permittee must conduct an annual performance tune-up according to 40 CFR 63.7540(a)(10). Each annual tune-up specified in 40 CFR 63.7540(a)(10) must be conducted no more than 13 months after the previous tune-up. [Rule 62-204.800(11)(b)86., F.A.C., and 40 CFR 63.7515(d)]

E.11. Tune-Up Procedures. Permittee must conduct a tune-up of the boiler to demonstrate continuous compliance as specified in paragraphs (a)(10)(i) through (vi) 40 CFR 63.7540. You must conduct the tune-up while burning the type of fuel (or fuels in case of units that routinely burn a mixture) that provided the majority of the heat input to the boiler over the 12 months prior to the tune-up.

a. As applicable, inspect the burner, and clean or replace any components of the burner as necessary (you may perform the burner inspection any time prior to the tune-up or delay the burner inspection until the next scheduled unit shutdown). Units that produce electricity for sale may delay the burner inspection until the first outage, not to exceed 36 months from the previous inspection. At units where entry into a piece of process equipment or into a storage vessel is required to complete the tune-up inspections, inspections are required only during planned entries into the storage vessel or process equipment;

b. Inspect the flame pattern, as applicable, and adjust the burner as necessary to optimize the flame pattern. The adjustment should be consistent with the manufacturer's specifications, if available;

c. Inspect the system controlling the air-to-fuel ratio, as applicable, and ensure that it is correctly calibrated and functioning properly (you may delay the inspection until the next scheduled unit shutdown). Units that produce electricity for sale may delay the inspection until the first outage, not to exceed 36 months from the previous inspection;

d. Optimize total emissions of CO. This optimization should be consistent with the manufacturer's specifications, if available, and with any NOx requirement to which the unit is subject;

e. Measure the concentrations in the effluent stream of CO in parts per million, by volume, and oxygen in volume percent, before and after the adjustments are made (measurements may be either on a dry or wet basis, as long as it is the same basis before and after the adjustments are made). Measurements may be taken using a portable CO analyzer; and

f. Maintain on-site and submit, if requested by the Administrator, a report containing the information in paragraphs (a)(10)(vi)(A) through (C) of 40 CFR 63.7540.

(1) The concentrations of CO in the effluent stream in parts per million by volume, and oxygen in volume percent, measured at high fire or typical operating load, before and after the tune-up of the boiler or process heater;

(2) A description of any corrective actions taken as a part of the tune-up; and

(3) The type and amount of fuel used over the 12 months prior to the tune-up, but only if the unit was physically and legally capable of using more than one type of fuel during that period. Units sharing a fuel meter may estimate the fuel used by each unit.

[Rule 62-204.800(11), F.A.C.; 40 CFR 63.7540(a)(10); and Table 3 (Item 3) to Subpart DDDDD of Part 63]

{Permitting Note: The initial tune-up and the one-time energy assessment for the Riley Stoker Boiler (EU 001) was completed in January 2018.}

E.12. Fuel Specifications. Permittee shall demonstrate that all gaseous fuels other than natural gas or refinery gas qualifies as an "other gas 1 fuel" unit as defined in 40 CFR 63.7575. [Rule 62-204.800(11), F.A.C., and 40 CFR 63.7530(g)]

{Permitting Note: Other gas 1 fuel means a gaseous fuel that is not natural gas or refinery gas and does not exceed a maximum concentration of 40 micrograms/cubic meters of mercury.}

E.13. Fuel Analysis Procedures. Permittee shall conduct an initial fuel specification analysis for mercury according to the procedures in 40 CFR 63.7521(f) through (i) and according to the frequency listed in 40 CFR 63.7540(c).

a. To demonstrate that a gaseous fuel other than natural gas or refinery gas qualifies as an other gas 1 fuel, as defined in 40 CFR 63.7575, the Permittee must conduct a fuel specification analyses for mercury according to the procedures in paragraphs (g) through (i) of 40 CFR 63.7521 and Table 6 to 40 CFR 63 Subpart DDDDD, as applicable, except as specified in paragraph (f)(1) through (4) of 40 CFR 63.7521, or as an alternative where fuel specification analysis is not practical, the Permittee must measure mercury concentration in the exhaust gas when firing only the gaseous fuel to be demonstrated as an other gas 1 fuel in the boiler according to the procedures in Table 6 to 40 CFR 63 Subpart DDDDD.

(1) You are not required to conduct the fuel specification analyses in paragraphs (g) through (i) of 40 CFR 63.7521 for natural gas or refinery gas.

(2) You are not required to conduct the fuel specification analyses in paragraphs (g) through (i) of 40 CFR 63.7521 for gaseous fuels that are subject to another subpart of part 63, part 60, part 61, or part 65.

[Rule 62-204.800(11), F.A.C., and 40 CFR 63.7521(f)]

E.14. Fuel Analysis Plan. The Permittee must develop a site-specific fuel analysis plan for other gas 1 fuels according to the following procedures and requirements in paragraphs (g)(1) & (2) of 40 CFR 63.7521.

a. If you intend to use an alternative analytical method other than those required by Table 6 to 40 CFR 63 Subpart DDDDD, you must submit the fuel analysis plan to the Administrator for review and approval no later than 60 days before the date that you intend to conduct the initial compliance demonstration described in 40 CFR 63.7510.

b. The Permittee must include the information contained in paragraphs (g)(2)(i) through (vi) of 40 CFR 63.7521 in your fuel analysis plan.

(1) The identification of all gaseous fuel types other than those exempted from fuel specification analysis under (f)(1) through (3) of 40 CFR 63.7521 anticipated to be burned in each boiler.

(2) For each anticipated fuel type, the identification of whether you or a fuel supplier will be conducting the fuel specification analysis.

(3) For each anticipated fuel type, a detailed description of the sample location and specific procedures to be used for collecting and preparing the samples if your procedures are different from the sampling methods contained in Table 6 to 40 CFR 63 Subpart DDDDD. Samples should be collected at a location that most accurately represents the fuel type, where possible, at a point prior to mixing with other dissimilar fuel types. If multiple boilers are fueled by a common fuel stream it is permissible to conduct a single gas specification at the common point of gas distribution.

(4) For each anticipated fuel type, the analytical methods from Table 6 to 40 CFR 63 Subpart DDDDD, with the expected minimum detection levels, to be used for the measurement of mercury.

(5) If you request to use an alternative analytical method other than those required by Table 6 to 40 CFR 63 Subpart DDDDD, you must also include a detailed description of the methods and procedures that you are proposing to use. Methods in Table 6 to 40 CFR 63 Subpart DDDDD shall be used until the requested alternative is approved.

(6) If you will be using fuel analysis from a fuel supplier in lieu of site-specific sampling and analysis, the fuel supplier must use the analytical methods required by Table 6 to 40 CFR 63 Subpart DDDDD. When using a fuel supplier's fuel analysis, Permittee is not required to submit the information in 40 CFR 63.7521(g)(2)(iii).

[Rule 62-204.800(11), F.A.C., and 40 CFR 63.7521(g)]

E.15. Fuel Sampling Requirements. The Permittee must obtain a single fuel sample for each fuel type for fuel specification of gaseous fuels. [Rule 62-204.800(11), F.A.C., and 40 CFR 63.7521(h)]

E.16. Mercury Concentration. The Permittee must determine the concentration in the fuel of mercury, in units of micrograms per cubic meter, dry basis, of each sample for each other gas 1 fuel type according to the procedures in Table 6 to 40 CFR 63 Subpart DDDDD. [Rule 62-204.800(11), F.A.C., and 40 CFR 63.7521(i)]

E.17. Notification of Compliance Status. Permittee must submit the Notification of Compliance Status containing the results of the initial compliance demonstration according to the requirements in 40 CFR 63.7545(e). [Rule 62-204.800(11)(b)86., F.A.C., and 40 CFR 63.7530(f)]

E.18. Fuel Analysis Requirements. If you elect to demonstrate that a gaseous fuel meets the specifications of another gas 1 fuel as defined in 40 CFR 63.7575, you must conduct an initial fuel specification analysis according to 40 CFR 63.7521(f) through (i) and according to the frequency listed in 40 CFR 63.7540(c) and maintain records of the results of the testing as outlined in 40 CFR 63.7555(g). For samples where the initial

mercury specification has not been exceeded, you will include a signed certification with the Notification of Compliance Status that the initial fuel specification test meets the gas specification outlined in the definition of other gas 1 fuels. [Rule 62-204.800(11), F.A.C., and 40 CFR 63.7530(g)]

Notification, Reports, and Records

E.19. Reporting Schedule. The following reports and notifications shall be submitted to the Compliance Authority:

Report	Reporting Deadline	Related Condition(s)
Compliance Reports	Annual - no later than January 31	**E.23.** and **E.24.**
Notifications	As required by Administrator	**E.17., E.21.** and **E.22.**

[Rule 62-213.440(1)(b), F.A.C.]

E.20. Other Reporting Requirements. See Appendix RR, Facility-Wide Reporting Requirements, for additional reporting requirements. [Rule 62-213.440(1)(b), F.A.C.]

E.21. Notifications - General. The Permittee must submit to the Administrator all of the notifications in 40 CFR 63.7(b) & (c), 63.8(e), (f)(4) & (6), and 63.9(b) through (h) that apply to you by the dates specified. [Rule 62-204.800(11), F.A.C.; 40 CFR 63.7545(a)]

E.22. Notification of Alternative Fuel Use. If you operate a unit designed to burn natural gas, refinery gas, or other gas 1 fuels that is subject to 40 CFR 63 Subpart DDDDD, and you intend to use a fuel other than natural gas, refinery gas, gaseous fuel subject to another subpart of part 63, part 60, 61, or 65, or other gas 1 fuel to fire the affected unit during a period of natural gas curtailment or supply interruption, as defined in 40 CFR 63.7575, you must submit a notification of alternative fuel use within 48 hours of the declaration of each period of natural gas curtailment or supply interruption, as defined in 40 CFR 63.7575. The notification must include the information specified in paragraphs (f)(1) through (5) of 40 CFR 63.7545.

a. Company name and address.

b. Identification of the affected unit.

c. Reason you are unable to use natural gas or equivalent fuel, including the date when the natural gas curtailment was declared or the natural gas supply interruption began.

d. Type of alternative fuel that you intend to use.

e. Dates when the alternative fuel use is expected to begin and end.

[Rule 62-204.800(11), F.A.C.; 40 CFR 63.7545(f)]

E.23. Compliance Report Schedule. Unless the EPA Administrator has approved a different schedule for submission of reports under 40 CFR 63.10(a), you must submit each report, according to paragraph (h) of 40 CFR 63.7550, by the date in Table 9 to 40 CFR 63 Subpart DDDDD and according to the requirements in paragraphs (b)(1) through (4) of 40 CFR 63.7550. For units that are subject only to a requirement to conduct subsequent annual tune-up according to 40 CFR 63.7540(a)(10), and not subject to emission limits or Table 4 operating limits, you may submit only an annual compliance report, as applicable, as specified in paragraphs (b)(1) through (4) of 40 CFR 63.7550, instead of a semi-annual compliance report.

a. Annual compliance reports must cover the period from January 1 to December 31.

b. Annual compliance reports must be postmarked or submitted no later than January 31.

[Rule 62-204.800(11), F.A.C.; 40 CFR 63.7550(b)]

E.24. Compliance Report Contents. Permittee must submit a compliance report with the information in paragraphs (c)(5)(i) through (iii), (xiv) & (xvii) of 40 CFR 63.7550 as follows:

a. Company and Facility name and address.

b. Process unit information, emissions limitations, and operating parameter limitations.

c. Date of report and beginning and ending dates of the reporting period.

d. Include the date of the most recent tune-up for each unit subject to only the requirement to conduct an annual tune-up according to 40 CFR 63.7540(a)(10). Include the date of the most recent burner inspection if it was not done annually and was delayed until the next scheduled or unscheduled unit shutdown.

e. Statement by a responsible official with that official's name, title, and signature, certifying the truth, accuracy, and completeness of the content of the report.

[Rule 62-204.800(11), F.A.C.; 40 CFR 63.7550(c)]

E.25. Records Requirements. The Permittee must keep records according to paragraphs (a)(1) & (2) of 40 CFR 63.7555.

a. A copy of each notification and report that you submitted to comply with 40 CFR 63 Subpart DDDDD, including all documentation supporting any Initial Notification or Notification of Compliance Status or annual compliance report that you submitted, according to the requirements in 40 CFR 63.10(b)(2)(xiv).

b. Records of performance tests, fuel analyses, or other compliance demonstrations and performance evaluations as required in 40 CFR 63.10(b)(2)(viii).

[Rule 62-204.800(11), F.A.C.; 40 CFR 63.7555(a)]

E.26. Fuel Specification Records. If you elected to demonstrate that the unit meets the specification for mercury for the unit designed to burn gas 1 subcategory, you must maintain monthly records (or at the frequency required by 40 CFR 63.7540(c)) of the calculations and results of the fuel specification for mercury in Table 6. [Rule 62-204.800(11)(b)86., F.A.C.; 40 CFR 63.7555(g)]

E.27. Records of Alternate Fuel Usage. If you operate a unit in the unit designed to burn gas 1 subcategory that is subject to this subpart, and you use an alternative fuel other than natural gas, refinery gas, gaseous fuel subject to another subpart under this part, other gas 1 fuel, or gaseous fuel subject to another subpart of this part or part 60, 61, or 65, you must keep records of the total hours per calendar year that alternative fuel is burned and the total hours per calendar year that the unit operated during periods of gas curtailment or gas supply emergencies. [Rule 62-204.800(11)(b)86., F.A.C.; 40 CFR 63.7555(h)]

E.28. Records Retention. Permittee shall maintain records of compliance information in accordance with 40 CFR 63.7560.

a. Your records must be in a form suitable and readily available for expeditious review, according to 40 CFR 63.10(b)(1).

b. As specified in 40 CFR 63.10(b)(1), you must keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.

c. The Permittee must keep each record on site, or they must be accessible from on site (for example, through a computer network), for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to 40 CFR 63.10(b)(1). You can keep the records off site for the remaining 3 years.

[Rule 62-204.800(11), F.A.C.; and 40 CFR 63.7560] Back to Table of Contents

The specific conditions in this section apply to the following emissions unit:

EU No.	Brief Description
003	B & W Boiler

The B & W Boiler produces 90,000 pounds per hour of steam at 600 psig, which is considered equivalent to 128 MMBtu per hour heat input (1,121,280 MMBtu per year), assuming 80% boiler efficiency. The boiler is fueled by natural gas and process off-gases.

The boiler burns only gaseous fuels, as defined in 40 CFR 63.7575, which includes, but is not limited to, natural gas and process gas. The boiler is in the subcategory of 'units designed to burn gas 1 fuels'. Boilers in the subcategory of units designed to burn gas 1 fuels are not subject to the emission limits in Tables 1 and 2 or 11 through 13 to 40 CFR 63 Subpart DDDDD, or the operating limits in Table 4 to Subpart DDDDD, per 40 CFR 63.7500(e). Fuel gas system means the offsite and onsite piping and flow and pressure control system that gathers gaseous stream(s) generated by onsite operations, may blend them with other sources of gas, and transports the gaseous stream for use as fuel gas in combustion devices or in-process combustion equipment, such as furnaces and gas turbines, either singly or in combination.

{Permitting Note: This emissions unit is regulated by Rule 62-296.406, F.A.C. – Fossil Fuel Steam Generators with Less than 250 Million Btu Per Hour Heat Input. This emissions unit is also regulated by 40 CFR 63, Subpart DDDDD – National Emissions Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters (Boiler MACT) (adopted and incorporated by reference in Rule 62-204.800(11)(b)86., F.A.C.).}

Essential Potential to Emit (PTE) Parameters

F.1. Capacity. Maximum allowable operating rate of the B & W Boiler is 128 MMBtu per hour, averaged daily. [Rules 62-210.200 (PTE), 62-213.440(1), F.A.C., and Permit No. 1130004-019-AC]

F.2. Methods of Operation (Fuel). The boiler may operate using natural gas and process off-gases. [Rule 62-210.200(PTE), F.A.C.]

F.3. Hours of Operation. This emissions unit is allowed to operate continuously, i.e., 8,760 hours/year. [Rule 62-210.200(PTE), F.A.C.]

Emission Limitations and Standards

Unless otherwise specified, the averaging times are based on the specified averaging time of the applicable test method.

F.4. Visible Emissions. Visible emissions shall not exceed 20 percent opacity except for one six-minute period per one-hour period during which opacity shall not exceed 27 percent. [Rule 62-296.406(1), F.A.C.]

Test Methods and Procedures

F.5. Test Methods. Required tests shall be performed in accordance with the following reference methods:

EPA Method	Description of Method and Comments
9	Visual Determination of the Opacity of Emissions from Stationary Sources

The above method is described in 40 CFR 60, Appendix A, and adopted by reference in Rule 62-204.800, F.A.C. No other method may be used unless prior written approval is received from the Department.

F.6. Common Testing Requirements. Unless otherwise specified, tests shall be conducted in accordance with the requirements and procedures specified in Appendix TR, Facility-Wide Testing Requirements, of this permit. [Rule 62-297.310, F.A.C.]

{Permitting Note: Air compliance test notifications can now be completed online in the Department's Business Portal. To access this online process, go to http://www.fldepportal.com/go/home and sign in (or register if you're a new user) from the link in the upper right corner of the page. On the Welcome page select the Submit option, then select Registration/Notification, and then click on Air Compliance Test Notifications. Once in the process, just carefully read the instructions on each screen (and under the Help tabs) to complete the notification.}

F.7. Compliance Tests Prior To Renewal. Except as provided in subparagraph 62-297.310(8)(b)3., F.A.C. (see condition TR7.b.(3) in Appendix TR – Facility-wide Testing Requirements), compliance tests shall be performed for visible emissions (VE) prior to obtaining a renewed operation permit to demonstrate compliance with the visible emissions limits in **Specific Condition F.4. Visible Emissions**. [Rules 62-210.300(2)(a) and 62-297.310(8)(b), F.A.C.]

{Permitting Note: Tests which are only required once during the term of a permit prior to obtaining a renewed permit should be performed roughly five years from the previous test.}

Work Practice Standards

F.8. Operation and Maintenance. At all times, the Permittee must operate and maintain any affected source (as defined in 40 CFR 63.7490), including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator that may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source. [Rule 62-204.800(11), F.A.C., and 40 CFR 63.7500(a)(3)]

Compliance Requirements

F.9. General Requirements. At all times you must be in compliance with the work practice standards in 40 CFR 63 Subpart DDDDD except for the periods noted in 40 CFR 63.7500(f). [Rule 62-204.800(11), F.A.C., and 40 CFR 63.7505(a)]

F.10. Annual Tune-Ups Required. Permittee must conduct an annual performance tune-up according to 40 CFR 63.7540(a)(10). Each annual tune-up specified in 40 CFR 63.7540(a)(10) must be conducted no more than 13 months after the previous tune-up. [Rule 62-204.800(11)(b)86., F.A.C., and 40 CFR 63.7515(d)]

F.11. Tune-Up Procedures. Permittee shall conduct an annual tune-up of the boiler as specified in 40 CFR 63.7540. Units in the Gas 1 subcategory will conduct this tune-up as a work practice for all regulated emissions under 40 CFR 63 Subpart DDDDD. You must conduct an annual tune-up of the boiler to demonstrate continuous compliance as specified in paragraphs (a)(10)(i) through (vi) of 40 CFR 63.7540. You must conduct the tune-up while burning the type of fuel (or fuels in case of units that routinely burn a mixture) that provided the majority of the heat input to the boiler or process heater over the 12 months prior to the tune-up.

a. As applicable, inspect the burner, and clean or replace any components of the burner as necessary (you may perform the burner inspection any time prior to the tune-up or delay the burner inspection until the next scheduled unit shutdown). Units that produce electricity for sale may delay the burner inspection until the first outage, not to exceed 36 months from the previous inspection. At units where entry into a piece of process equipment or into a storage vessel is required to complete the tune-up inspections, inspections are required only during planned entries into the storage vessel or process equipment;

b. Inspect the flame pattern, as applicable, and adjust the burner as necessary to optimize the flame pattern. The adjustment should be consistent with the manufacturer's specifications, if available;

c. Inspect the system controlling the air-to-fuel ratio, as applicable, and ensure that it is correctly calibrated and functioning properly (you may delay the inspection until the next scheduled unit shutdown). Units that produce electricity for sale may delay the inspection until the first outage, not to exceed 36 months from the previous inspection;

d. Optimize total emissions of CO. This optimization should be consistent with the manufacturer's specifications, if available, and with any NOx requirement to which the unit is subject;

e. Measure the concentrations in the effluent stream of CO in parts per million, by volume, and oxygen in volume percent, before and after the adjustments are made (measurements may be either on a dry or wet basis, as long as it is the same basis before and after the adjustments are made). Measurements may be taken using a portable CO analyzer; and

f. Maintain on-site and submit, if requested by the Administrator, a report containing the information in paragraphs (a)(10)(vi)(A) through (C) of 40 CFR 63.7540.

i. The concentrations of CO in the effluent stream in parts per million by volume, and oxygen in volume percent, measured at high fire or typical operating load, before and after the tune-up of the boiler or process heater;

ii. A description of any corrective actions taken as a part of the tune-up; and

iii. The type and amount of fuel used over the 12 months prior to the tune-up, but only if the unit was physically and legally capable of using more than one type of fuel during that period. Units sharing a fuel meter may estimate the fuel used by each unit.

[Rule 62-204.800(11), F.A.C.; 40 CFR 63.7540(a)(10); and Table 3 (Item 3) to Subpart DDDDD of Part 63]

{Permitting Note: The initial tune-up and the one-time energy assessment for the B & W Boiler (EU 003) was completed in January 2016.}

F.12. Fuel Specifications. Permittee shall demonstrate that all gaseous fuels other than natural gas or refinery gas qualifies as an "other gas 1 fuel" unit as defined in 40 CFR 63.7575. [Rule 62-204.800(11), F.A.C., and 40 CFR 63.7530(g)]

{Permitting Note: Other gas 1 fuel means a gaseous fuel that is not natural gas or refinery gas and does not exceed a maximum concentration of 40 micrograms/cubic meters of mercury.}

F.13. Fuel Analysis Procedures. Permittee shall conduct an initial fuel specification analysis for mercury according to the procedures in 40 CFR 63.7521(f) through (i) as follows and according to the frequency listed in 40 CFR 63.7540(c) (**See Specific Condition F.18. Fuel Analysis Requirements**) as follows:

a. To demonstrate that a gaseous fuel other than natural gas or refinery gas qualifies as an other gas 1 fuel, as defined in 40 CFR 63.7575, you must conduct a fuel specification analyses for mercury according to the procedures in paragraphs (g) through (i) of 40 CFR 63.7521 and Table 6 to 40 CFR 63 Subpart DDDDD, as applicable, except as specified in paragraph (f)(1) through (4) of 40 CFR 63.7521, or as an alternative where fuel specification analysis is not practical, you must measure mercury concentration in the exhaust gas when firing only the gaseous fuel to be demonstrated as an other gas 1 fuel in the boiler or process heater according to the procedures in Table 6 to 40 CFR 63 Subpart DDDDD.

i. You are not required to conduct the fuel specification analyses in paragraphs (g) through (i) of 40 CFR 63.7521 for natural gas or refinery gas.

ii. You are not required to conduct the fuel specification analyses in paragraphs (g) through (i) of 40 CFR 63.7521 for gaseous fuels that are subject to another subpart of part3 63, 60, 61, or part 65.

[Rule 62-204.800(11), F.A.C. and 40 CFR 63.7521(f) and 40 CFR 63.7530(g)]]

F.14. Fuel Analysis Plan. The Permittee must develop a site-specific fuel analysis plan for other gas 1 fuels according to the following procedures and requirements in paragraphs (g)(1) & (2) of 40 CFR 63.7521.

a. If you intend to use an alternative analytical method other than those required by Table 6 to 40 CFR 63 Subpart DDDDD, you must submit the fuel analysis plan to the Administrator for review and approval no later than 60 days before the date that you intend to conduct the initial compliance demonstration described in 40 CFR 63.7510.

b. The Permittee must include the information contained in paragraphs (g)(2)(i) through (vi) of 40 CFR 63.7521 in your fuel analysis plan.

i. The identification of all gaseous fuel types other than those exempted from fuel specification analysis under (f)(1) through (3) of 40 CFR 63.7521 anticipated to be burned in each boiler or process heater.

ii. For each anticipated fuel type, the identification of whether you or a fuel supplier will be conducting the fuel specification analysis.

iii. For each anticipated fuel type, a detailed description of the sample location and specific procedures to be used for collecting and preparing the samples if your procedures are different from the sampling methods contained in Table 6 to 40 CFR 63 Subpart DDDDD. Samples should be collected at a location that most accurately represents the fuel type, where possible, at a point prior to mixing with other dissimilar fuel types. If multiple boilers or process heaters are fueled by a common fuel stream it is permissible to conduct a single gas specification at the common point of gas distribution.

iv. For each anticipated fuel type, the analytical methods from Table 6 to 40 CFR 63 Subpart DDDDD, with the expected minimum detection levels, to be used for the measurement of mercury.

v. If you request to use an alternative analytical method other than those required by Table 6 to 40 CFR 63 Subpart DDDDD, you must also include a detailed description of the methods and procedures that you are proposing to use. Methods in Table 6 to 40 CFR 63 Subpart DDDDD shall be used until the requested alternative is approved.

vi. If you will be using fuel analysis from a fuel supplier in lieu of site-specific sampling and analysis, the fuel supplier must use the analytical methods required by Table 6 to 40 CFR 63 Subpart DDDDD. When using a fuel supplier's fuel analysis, Permittee is not required to submit the information in 40 CFR 63.7521(g)(2)(iii).

[Rule 62-204.800(11), F.A.C. and 40 CFR 63.7521(g)]

F.15. Fuel Sampling Requirements. The Permittee must obtain a single fuel sample for each fuel type for fuel specification of gaseous fuels. [Rule 62-204.800(11), F.A.C. and 40 CFR 63.7521(h)]

F.16. Mercury Concentration. The Permittee must determine the concentration in the fuel of mercury, in units of microgram per cubic meter, dry basis, of each sample for each other gas 1 fuel type according to the procedures in Table 6 to 40 CFR 63 Subpart DDDDD. [Rule 62-204.800(11), F.A.C. and 40 CFR 63.7521(i)]

F.17. Notification of Compliance Status. Permittee must submit the Notification of Compliance Status containing the results of the initial compliance demonstration according to the requirements in 40 CFR 63.7545(e). [Rule 62-204.800(11)(b)86., F.A.C., and 40 CFR 63.7530(f)]

F.18. Fuel Analysis Requirements. If you elect to demonstrate that a gaseous fuel meets the specifications of another gas 1 fuel as defined in 40 CFR 63.7575, you must conduct an initial fuel specification analysis according to 40 CFR 63.7521(f) through (i) and according to the frequency listed in 40 CFR 63.7540(c) and maintain records of the results of the testing as outlined in 40 CFR 63.7555(g). For samples where the initial mercury specification has not been exceeded, you will include a signed certification with the Notification of

Compliance Status that the initial fuel specification test meets the gas specification outlined in the definition of other gas 1 fuels. [Rule 62-204.800(11), F.A.C., and 40 CFR 63.7530(g)]

RECORDKEEPING AND REPORTING

F.19. Reporting Schedule. The following reports and notifications shall be submitted to the Compliance Authority:

Report	Reporting Deadline	Related Condition(s)
Compliance Reports	Annual - no later than January 31	**F.23** and **F.24**
Notifications	As required by Administrator	**F.17, F.21** and **F.22**

[Rule 62-213.440(1)(b), F.A.C.]

F.20. Other Reporting Requirements. See Appendix RR, Facility-Wide Reporting Requirements, for additional reporting requirements. [Rule 62-213.440(1)(b), F.A.C.]

F.21. Notifications - General. The Permittee must submit to the Administrator all of the notifications in 40 CFR 63.7(b) & (c), 63.8(e), (f)(4) & (6), and 63.9(b) through (h) that apply to you by the dates specified. [Rule 62-204.800(11), F.A.C.; 40 CFR 63.7545(a)]

F.22. Notification of Alternative Fuel Use. If you operate a unit designed to burn natural gas, refinery gas, or other gas 1 fuels that is subject to 40 CFR 63 Subpart DDDDD, and you intend to use a fuel other than natural gas, refinery gas, gaseous fuel subject to another subpart of part 63, part 60, 61, or 65, or other gas 1 fuel to fire the affected unit during a period of natural gas curtailment or supply interruption, as defined in 40 CFR 63.7575, you must submit a notification of alternative fuel use within 48 hours of the declaration of each period of natural gas curtailment or supply interruption, as defined in 40 CFR 63.7575. The notification must include the information specified in paragraphs (f)(1) through (5) of 40 CFR 63.7545.

a. Company name and address.

b. Identification of the affected unit.

c. Reason you are unable to use natural gas or equivalent fuel, including the date when the natural gas curtailment was declared or the natural gas supply interruption began.

d. Type of alternative fuel that you intend to use.

e. Dates when the alternative fuel use is expected to begin and end.

[Rule 62-204.800(11), F.A.C.; 40 CFR 63.7545(f)]

F.23. Compliance Report Schedule. Unless the EPA Administrator has approved a different schedule for submission of reports under 40 CFR 63.10(a), you must submit each report, according to paragraph (h) of 40 CFR 63.7550, by the date in Table 9 to 40 CFR 63 Subpart DDDDD and according to the requirements in paragraphs (b)(1) through (4) of 40 CFR 63.7550. For units that are subject only to a requirement to conduct subsequent annual tune-up according to 40 CFR 63.7540(a)(10), and not subject to emission limits or Table 4 operating limits, you may submit only an annual compliance report, as applicable, as specified in paragraphs (b)(1) through (4) of 40 CFR 63.7550, instead of a semi-annual compliance report.

f. Annual compliance reports must cover the period from January 1 to December 31.

g. Annual compliance reports must be postmarked or submitted no later than January 31.

[Rule 62-204.800(11), F.A.C.; 40 CFR 63.7550(b)]

F.24. Compliance Report Contents. Permittee must submit a compliance report with the information in paragraphs (c)(5)(i) through (iii), (xiv) & (xvii) of 40 CFR 63.7550 as follows:

a. Company and Facility name and address.

b. Process unit information, emissions limitations, and operating parameter limitations.

c. Date of report and beginning and ending dates of the reporting period.

d. Include the date of the most recent tune-up for each unit subject to only the requirement to conduct an annual tune-up according to 40 CFR 63.7540(a)(10). Include the date of the most recent burner inspection if it was not done annually and was delayed until the next scheduled or unscheduled unit shutdown.

e. Statement by a responsible official with that official's name, title, and signature, certifying the truth, accuracy, and completeness of the content of the report.

[Rule 62-204.800(11), F.A.C.; 40 CFR 63.7550(c)]

F.25. Records Requirements. The Permittee must keep records according to paragraphs (a)(1) & (2) of 40 CFR 63.7555.

a. A copy of each notification and report that you submitted to comply with 40 CFR 63 Subpart DDDDD, including all documentation supporting any Initial Notification or Notification of Compliance Status or annual compliance report that you submitted, according to the requirements in 40 CFR 63.10(b)(2)(xiv).

b. Records of performance tests, fuel analyses, or other compliance demonstrations and performance evaluations as required in 40 CFR 63.10(b)(2)(viii).

[Rule 62-204.800(11), F.A.C.; 40 CFR 63.7555(a)]

F.26. Fuel Specification Records. If you elected to demonstrate that the unit meets the specification for mercury for the unit designed to burn gas 1 subcategory, you must maintain monthly records (or at the frequency required by 40 CFR 63.7540(c)) of the calculations and results of the fuel specification for mercury in Table 6. [Rule 62-204.800(11)(b)86., F.A.C.; 40 CFR 63.7555(g)]

F.27. Records of Alternate Fuel Usage. If you operate a unit in the unit designed to burn gas 1 subcategory that is subject to this subpart, and you use an alternative fuel other than natural gas, refinery gas, gaseous fuel subject to another subpart under this part, other gas 1 fuel, or gaseous fuel subject to another subpart of this part or part 60, 61, or 65, you must keep records of the total hours per calendar year that alternative fuel is burned and the total hours per calendar year that the unit operated during periods of gas curtailment or gas supply emergencies. [Rule 62-204.800(11)(b)86., F.A.C.; 40 CFR 63.7555(h)]

F.28. Records Retention. Permittee shall maintain records of compliance information in accordance with 40 CFR 63.7560.

a. Your records must be in a form suitable and readily available for expeditious review, according to 40 CFR 63.10(b)(1).

b. As specified in 40 CFR 63.10(b)(1), you must keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.

c. The Permittee must keep each record on site, or they must be accessible from on site (for example, through a computer network), for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to 40 CFR 63.10(b)(1). You can keep the records off site for the remaining 3 years.

[Rule 62-204.800(11), F.A.C.; and 40 CFR 63.7560]

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The specific conditions in this section apply to the following emissions unit:

EU No.	Brief Description
005	Amines Plants Flare

The amines plants flare is a non-assisted flare with a natural gas pilot. Off-gases from the product absorbers at MA Plant Nos. 1 and 4, the Higher Amines Plants and the DIMLA Plant, as well as other process vents at the facility, are continuously released to the flare for destruction. An infra-red and a flame strength camera is utilized to continuously monitor the flame. The flame strength will alarm the control room operator if the flame goes out. The flare will not relight itself. An alarm delay is built into the computer logic to avoid false alarms during brief instances when weather conditions may disrupt the flame viewed by the camera. Natural gas is fed with process gas in a ratio of 0.3:1 for streams that do not have direct BTU measurement to ensure that the minimum net heating value of the gas being combusted is maintained, and a high flow alarm on the natural gas flow ensures that the maximum allowable flare exit velocity is not exceeded.

{Permitting Note: This emissions unit is regulated by 40 CFR 60.18, Subpart A; 40 CFR 63.11, Subpart A; 40 CFR 60 Subpart Kb - Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984 (adopted and incorporated by reference in Rule 62-204.800(8)(b)18., F.A.C.); 40 CFR 63 Subpart F – National Emission Standards for Organic Hazardous Air Pollutants from the Synthetic Organic Chemical Manufacturing Industry (adopted and incorporated by reference in Rule 62-204.800(11)(b)1., F.A.C.); 40 CFR 63 Subpart G – National Emissions Standards for Organic Hazardous Air Pollutants from the Synthetic Organic Chemical Manufacturing Industry for Process Vents, Storage Vessels, Transfer Operations, and Wastewater (adopted and incorporated by reference in Rule 62-204.800(11)(b)2., F.A.C.); 40 CFR 63 Subpart H - National Emissions Standards for Organic Hazardous Air Pollutants for Equipment Leaks (adopted and incorporated by reference in Rule 62-204.800(11)(b)3., F.A.C.); and 40 CFR 63 Subpart FFFF - National Emission Standards for Hazardous Air Pollutants: Miscellaneous Organic Chemical Manufacturing (adopted and incorporated by reference in Rule 62-204.800(11)(b)63., F.A.C.). This emissions unit is subject to the flare requirements in 40 CFR 63, Subpart SS—National Emission Standards for Closed Vent Systems, Control Devices, Recovery Devices and Routing to a Fuel Gas System or a Process (adopted and incorporated by reference in Rule 62-204.800(11)(b)34., F.A.C.). Compliance with NSPS Subparts NNN (Distillation Vents) and RRR (Reactor Vents) will be met by compliance with 40 CFR 63 Subpart FFFF (MON) as per the overlap provisions specified in 40 CFR 63.2535(h).}

Essential Potential to Emit (PTE) Parameters

G.1. Hours of Operation. This emissions unit is allowed to operate continuously, i.e., 8,760 hour/year. [Rule 62-210.200(PTE), F.A.C.]

Equipment Limitations and Standards

Unless otherwise specified, the averaging times are based on the specified averaging time of the applicable test method.

G.2. Operating Limitations. The Amines Plants Flare, a non-assisted flare, shall:

a. Be operated at all times when HON or MON-regulated emissions may be vented to it and shall maintain a minimum net heating value of the gas being combusted at 7.45 MJ/scm (200 Btu/scf) (calculated using the net heating value) when emission units subject to 40 CFR 63 Subparts G, H or FFFF are venting to the flare;

b. Be operated with a flame present at all times. The presence of a flare pilot flame shall be monitored, *at least once each hour*, using a thermocouple or any other equivalent device to detect the presence of a flame; and

c. Maintain the exit velocity of gas from the flare at less than or equal to 60 ft/sec (18.3 m/sec).

[Rules 62-204.800(8) & (11), F.A.C., 40 CFR 63.11(b)(3), (5), (6) & (7); 40 CFR 60.18(c)(2), (c)(3), (c)(4), (e), (f)(2) & (f)(4); and 40 CFR 63.998(a)(1)(ii) referenced by 63.987(b)]

G.3. Visible Emissions. The Amines Plants Flare shall be operated with no visible emissions, except for periods not to exceed a total of five minutes in any two consecutive hours. [Rules 62-204.800(8) & (11), F.A.C.; 40 CFR 63.11(b)(4), and 40 CFR 60.18(c)(1) & (f)(1)]

G.4. Alternative Control Device. During periods of flare startup, shutdown, malfunction, and maintenance, or other such periods that the Permittee may choose, the Permittee may divert emissions from the flare to the Boilers (See Emissions Units 001 and 003). [Rule 62-204.800(11), F.A.C., and 40 CFR 63.6(e)(3)]

G.5. DIMLA Process Vent Provisions. Continuous process vent streams from the DIMLA plant will be vented either directly or routed through process recovery devices to the flare at all times when the DIMLA plant is operating. [Rule 62-204.800(11), F.A.C.; 40 CFR 63.2455; and Permit No. 1130004-019-AC]

G.6. Other Recordkeeping and Reporting Requirements. This emissions unit is subject to the emission limitations and standards contained in Section IV, Common Conditions:

C.C.1. Startup, Shutdown, and Malfunction Plan

C.C.4. Excess Emissions and Data Obtained During Startups, Shutdowns, and Malfunctions

Monitoring of Operations

G.7. Bypass monitoring. Except for equipment needed for safety purposes such as pressure relief devices, low leg drains, high point bleeds, analyzer vents, and open-ended valves or lines, Permittee shall comply with one of the following for each closed vent system that contains bypass lines that could divert a vent stream to the atmosphere:

a. Properly install, maintain, and operate a flow indicator that is capable of taking readings at least once every 15 minutes. The flow indicator shall be installed at the entrance to any bypass line. [Rule 62-204.800(11), F.A.C.; 40 CFR 63.983(a)(3)(i) & (b)(4)(i), referenced by 40 CFR 63.2450(e) via 63.982(b)]

b. Secure the bypass line valve in the non-diverting position with a car-seal or a lock-and-key type configuration and visually inspect the seal or closure mechanism at least monthly to verify that the valve is maintained in the non-diverting position, and the vent stream is not diverted through the bypass line.

[Rule 62-204.800(11), F.A.C.; 40 CFR 63.983(a)(3)(ii) & (b)(4)(ii), referenced by 40 CFR 63.2450(e) via 63.982(b)]

G.8. Leak Monitoring. Each closed vent system used to route vent streams to the flare shall be inspected in accordance with Method 21 of 40 CFR part 60, Appendix A, initially, and then annually using sensory means as specified in 40 CFR 63.983(b) & (c). If there are visible, audible, or olfactory indications of leaks at the time of the annual visual inspections, the leaks will be repaired and monitored as specified in 40 CFR 63.983(d). [Rules 62-204.800(11), F.A.C.; 40 CFR 63.982(b), referenced by 40 CFR 63.2450(e)]

G.9. Flare Monitoring Requirements. Permittee shall:

a. Demonstrate compliance with the minimum net heating value requirement by maintaining a vent gas to natural gas fuel input ratio sufficient to maintain a minimum net heating value of 7.45 MJ/scm (200 Btu/scf) (calculated using the net heating value). Approved alternate monitoring allows use of the Honeywell control system that continuously monitors the natural gas and process gas flow rate at the flare in lieu of collecting samples of gas ducted to the flare tip for heating value analysis and testing to measure the velocity at the flare tip;

b. Continuously monitor for the presence of a flare pilot flame using a thermocouple or any other equivalent device to detect the presence of a flame; and

c. Utilize a high velocity alarm to ensure the maximum allowable velocity of 60 ft/sec (18.3 (m/sec) will not be exceeded.

[Rules 62-204.800(8) & (11), F.A.C., 40 CFR 63.11(b)(3), (5), (6) & (7), and 40 CFR 60.18(c)(2), (c)(3), (c)(4), (e), (f)(2), (f)(3) & (f)(4)]

Test Methods and Procedures

G.10. Test Methods. When required, tests shall be performed in accordance with the following reference methods:

Method	Description of Method and Comments
22	Visual determination of fugitive emissions from material sources

The above methods are described in 40 CFR 60, Appendix A, and adopted by reference in Rule 62-204.800, F.A.C. No other methods may be used unless prior written approval is received from the Department. [Rule 62-204.800, F.A.C., and Permit No. 1130004-019-AC]

G.11. Common Testing Requirements. Unless otherwise specified, tests shall be conducted in accordance with the requirements and procedures specified in Appendix TR, Facility-Wide Testing Requirements, of this permit. [Rule 62-297.310, F.A.C.]

{Permitting Note: Air compliance test notifications can now be completed online in the Department's Business Portal. To access this online process, go to http://www.fldepportal.com/go/home and sign in (or register if you're a new user) from the link in the upper right corner of the page. On the Welcome page select the Submit option, then select Registration/Notification, and then click on Air Compliance Test Notifications. Once in the process, just carefully read the instructions on each screen (and under the Help tabs) to complete the notification.}

G.12. Compliance Tests Prior to Renewal. Permittee shall conduct a flare compliance assessment using EPA Method 22 during operations at a time when either the MA Plant No. 1 or 4 and the DIMLA Plant are operating. The test shall be conducted within the 12 months prior to the submittal of and included with the Title V Permit Renewal Application. The observation period shall be at least two hours. [Rules 62-204.800(8) & (11), F.A.C.; 40 CFR 63.11(b)(4), 40 CFR 60.18(c)(1) & (f)(1); and Permit No. 1130004-019-AC]

{Permitting Note. Taminco does not have any measurable parameters in existing permits to show the plants are operating at maximum capacity, but they do have measurable parameters for the flare.}

G.13. Startup, Shutdown, Malfunction. Permittee shall maintain compliance with 40 CFR 63 requirements pertaining to startup, shutdown and malfunction in accordance with other permit conditions set forth in this permit that pertain to emission units that emit organic hazardous air pollutants to the Amines Flare and that are regulated under 40 CFR 63 Subparts F, G, and H. [Rules 62-204.800(11), F.A.C.; and 40 CFR 63.10(d)(5)]

G.14. Other Recordkeeping and Reporting Requirements. This emissions unit is subject to the test methods and procedures contained in Section IV, Common Condition: **C.C.9.** Closed Vent System Inspections.

Recordkeeping and Reporting Requirements

G.15. Reporting Schedule. The following reports and notifications shall be submitted to the Compliance Authority:

Report	Reporting Deadline	Related Condition(s)
Periodic/Semiannual Compliance Reports (Includes Flare Compliance Reports	Semi-Annual	**G.18. and G.21.**
Annual Calibration Report	Annual	**G.18.**
Other Reporting Requirements	As required by Administrator	**G.22.**

[Rule 62-213.440(1)(b), F.A.C.]

G.16. Other Reporting Requirements. See Appendix RR, Facility-Wide Reporting Requirements, for additional reporting requirements. [Rule 62-213.440(1)(b), F.A.C.]

G.17. Flare Compliance Records. Permittee shall maintain records of the following information:

a. Identification of the dates and durations of periods during which the minimum heating value, pilot flame, and exit velocity requirements were not maintained and the reasons why these requirements were not met; and

b. Identification of the dates and durations during which flare control and monitoring systems were inoperative.

[Rule 62-204.800(11), F.A.C.; 40 CFR 63.118(a)(1), 40 CFR 63.130(a)(1) and 40 CFR 63.130(a)(2)(i)]

G.18. Flare Compliance Reports. Permittee shall submit periodic reports that identify each occurrence during which heating value, pilot flame, and exit velocity requirements were not maintained. Periodic reports shall also specify periods during which the control and monitoring systems were inoperative. The lack of monitoring data shall not constitute an excursion if other process data is available that adequately demonstrates that the flare was operating normally. Permittee shall submit an annual calibration report for calibration of the orifice plates that measure the flow rate of natural gas and process gas sent to the flare. [Rules 62-204.800(8) and (11), F.A.C.; 40 CFR 63.122(g)(3), 40 CFR 63.152(c)(4)(E)(iii), and 40 CFR 60.115b]

G.19. Maintenance Records and Reporting. Permittee shall maintain compliance with 40 CFR 63 requirements pertaining to reporting of maintenance activities in accordance with other permit conditions set forth in this permit for emission units that emit organic hazardous air pollutants to the Amines Flare and that are regulated under 40 CFR 63 Subparts F, G, H and FFFF. [Rules 62-204.800(11), F.A.C., and 40 CFR 63.10(d)(5)]

G.20. Bypass Monitoring Records. For each closed vent system that contains bypass lines that could divert a vent stream away from the control device and to the atmosphere, the permittee shall keep a record of the information specified in either paragraph (d)(1)(ii)(A) or (B) of 40 CFR 63.998, as applicable.

a. Hourly records of whether the flow indicator specified under 40 CFR 63.983(a)(3)(i) was operating and whether a diversion was detected at any time during the hour, as well as records of the times of all periods when the vent stream is diverted from the control device or the flow indicator is not operating.

b. Where a seal mechanism is used to comply with 40 CFR 63.983(a)(3)(ii), hourly records of flow are not required. In such cases, the permittee shall record that the monthly visual inspection of the seals or closure mechanisms has been done, and shall record the occurrence of all periods when the seal mechanism is broken, the bypass line valve position has changed, or the key for a lock-and-key type lock has been checked out, and records of any car-seal that has been broken.

[Rules 62-204.800(11), F.A.C.; 40 CFR 63.983(a)(3), referenced by 40 CFR 63.2450(e) via 63.982(b); and Permit No. 1130004-019-AC]

G.21. Periodic/Semiannual Compliance Reports. Permittee shall maintain continuous records of flare operation and shall submit periodic reports on flare operation as required by 40 CFR 63.152(c)(4). The Periodic Reports shall include the information in paragraphs (c)(4)(i) through (c)(4)(iv) of 40 CFR 63.152, as applicable:

a. For process vents, reports of process changes as required under 40 CFR 63.118 (g), (h), (i), and (j),

b. Any supplements required under 40 CFR 63.151(i) & (j),

c. Notification if any Group 2 emission point becomes a Group 1 emission point, including a compliance schedule as required in 40 CFR 63.100, and

d. For gas streams sent for disposal pursuant to 40 CFR 63.113(i) or for process wastewater streams sent for treatment pursuant to 40 CFR 63.132(g), reports of changes in the identity of the transferee.

[Rule 62-204.800(11), F.A.C.; 40 CFR 63.118 and 40 CFR 63.152(c)(4)]

G.22. Other Recordkeeping and Reporting Requirements. This emissions unit is subject to the recordkeeping and reporting requirements contained in Section IV, Common Conditions:

C.C.1. Compliance Monitoring

C.C.2. Startup, Shutdown, and Malfunction Plan

C.C.3. Recordkeeping and Reporting of Startups, Shutdowns, and Malfunctions

C.C.5. General Recordkeeping Requirements

C.C.6. General Reporting Requirements for Specific Emission Units Subject to 40 CFR 63 Subpart G

C.C.7. Additional Reporting Requirements for Sources with Continuous Monitoring Systems

C.C.8. Schedule of Reporting for Specific Sources Subject to 40 CFR 63 Subparts F, G and H

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Subsection H. Emission Unit 006

The specific conditions in this section apply to the following emissions unit:

EU No.	Brief Description
006	Methylamines Plant No. 1 Gas-Fired Heater

At MA Plant No. 1, a natural gas-fired preheater is used to heat the reaction of methyl alcohol, ammonia and recycled methylamines from the process to yield methylamine.

{Permitting Note: This emissions unit is subject to 40 CFR 63, Subpart DDDDD – National Emissions Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters (Boiler MACT) (adopted and incorporated by reference in Rule 62-204.800(11)(b)86., F.A.C.).}

Essential Potential to Emit (PTE) Parameters

H.1. Capacity. The maximum allowable operating rate of the Methylamines Gas-Fired Heater is 10.0 MMBtu per hour heat input. The actual gas-fired heater heat input will be calculated on a semi-annual basis as the sum of the previous 12 months total measured flow of natural gas to the heater and the average higher heating value of the natural gas. [Rule 62-4.070(3), 62-210.200(PTE) and 62-213.440(1), F.A.C.]

H.2. Hours of Operation. This emissions unit is allowed to operate continuously, i.e., 8,760 hour/year. [Rule 62-210.200(PTE), F.A.C.]

Emission Limitations and Compliance Requirements

H.3. Annual Tune-ups. Permittee shall conduct an annual tune-up of the boiler. [Rule 62-204.800(11), F.A.C.; 40 CFR 63.7540(a)(10); and Table 3 (Item 3) to Subpart DDDDD of Part 63]

{Permitting Note: The one-time energy assessment for this emissions unit was completed in January 2016.}

H.4. Tune-up Requirements. Permittee shall perform tune-ups according to the criteria specified in 40 CFR 63.7540(a)(10)(i) through (vi). The Permittee must conduct the tune-up while burning the type of fuel (or fuels in case of units that routinely burn a mixture) that provided the majority of the heat input to the boiler or process heater over the 12 months prior to the tune-up.

a. As applicable, inspect the burner, and clean or replace any components of the burner as necessary (you may perform the burner inspection any time prior to the tune-up or delay the burner inspection until the next scheduled unit shutdown). Units that produce electricity for sale may delay the burner inspection until the first outage, not to exceed 36 months from the previous inspection. At units where entry into a piece of process equipment or into a storage vessel is required to complete the tune-up inspections, inspections are required only during planned entries into the storage vessel or process equipment;

b. Inspect the flame pattern, as applicable, and adjust the burner as necessary to optimize the flame pattern. The adjustment should be consistent with the manufacturer's specifications, if available;

c. Inspect the system controlling the air-to-fuel ratio, as applicable, and ensure that it is correctly calibrated and functioning properly (you may delay the inspection until the next scheduled unit shutdown). Units that produce electricity for sale may delay the inspection until the first outage, not to exceed 36 months from the previous inspection;

d. Optimize total emissions of CO. This optimization should be consistent with the manufacturer's specifications, if available, and with any NOx requirement to which the unit is subject;

e. Measure the concentrations in the effluent stream of CO in parts per million, by volume, and oxygen in volume percent, before and after the adjustments are made (measurements may be either on a dry or wet basis, as long as it is the same basis before and after the adjustments are made). Measurements may be taken using a portable CO analyzer; and

f. Maintain on-site and submit, if requested by the Administrator, a report containing the following information:

(1) The concentrations of CO in the effluent stream in parts per million by volume, and oxygen in volume percent, measured at high fire or typical operating load, before and after the tune-up of the boiler or process heater;

(2) A description of any corrective actions taken as a part of the tune-up; and

(3) The type and amount of fuel used over the 12 months prior to the tune-up, but only if the unit was physically and legally capable of using more than one type of fuel during that period. Units sharing a fuel meter may estimate the fuel used by each unit.

[Rule 62-204.800(11), F.A.C.; and 40 CFR 63.7540(a)(10)]

Recordkeeping and Reporting Requirements

H.5. Reporting Schedule. The following reports and notifications shall be submitted to the Compliance Authority:

Report	Reporting Deadline	Related Condition(s)
Tune-Up Reports	if requested by Administrator	**H.7. and H.4.f**

[Rule 62-213.440(1)(b), F.A.C.]

H.6. Other Reporting Requirements. See Appendix RR, Facility-Wide Reporting Requirements, for additional reporting requirements. [Rule 62-213.440(1)(b), F.A.C.]

H.7. Tune-Up records and Reports. Permittee shall maintain and submit, if requested by the Administrator, a report containing the following information:

a. The concentrations of CO in the effluent stream in parts per million by volume, and oxygen in volume percent, measured at high fire or typical operating load, before and after the tune-up of the boiler or process heater;

b. A description of any corrective actions taken as a part of the tune-up; and

c. The type and amount of fuel used over the 12 months prior to the tune-up, but only if the unit was physically and legally capable of using more than one type of fuel during that period. Units sharing a fuel meter may estimate the fuel used by each unit.

[Rule 62-204.800(11), F.A.C.; and 40 CFR 63.7540(a)(10)(vi)]

H.8. Records Retention. Permittee shall maintain records of compliance information in accordance with 40 CFR 63.7560.

a. Your records must be in a form suitable and readily available for expeditious review, according to 40 CFR 63.10(b)(1).

b. As specified in 40 CFR 63.10(b)(1), you must keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.

c. The Permittee must keep each record on site, or they must be accessible from on site (for example, through a computer network), for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to 40 CFR 63.10(b)(1). You can keep the records off site for the remaining 3 years.

[Rule 62-204.800(11), F.A.C.; and 40 CFR 63.7560]

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Subsection I. Emission Unit 049

The specific conditions in this section apply to the following emissions unit:

EU No.	Brief Description
049	Methylamines Plant No. 1 Process Vents

Emissions from several process vents at MA Plant No. 1 are collected using a vapor collection system and routed to the Amines Flare (EU 005) or boilers during normal operation. MA Plant No. 1 process vents used intermittently include, but are not limited to, the Low-Pressure Absorber vent and the High Pressure Absorber vent. The absorbers are used for product recovery and are not considered pollution control devices.

{Permitting Note: This emissions unit is regulated by 40 CFR 63 Subpart G – National Emissions Standards for Organic Hazardous Air Pollutants from the Synthetic Organic Chemical Manufacturing Industry for Process Vents, Storage Vessels, Transfer Operations, and Wastewater (adopted and incorporated by reference in Rule 62-204.800(11)(b)2., F.A.C.). As stated in 40 CFR 63 Subpart G, "After the compliance dates specified in 40 CFR 63.100 (40 CFR 63 Subpart F), a Group 1 process vent that is also subject to the provisions of 40 CFR 60 Subpart NNN is required to comply only with the provisions of 40 CFR 63 Subpart F." [40 CFR 63.110(d)(4)]; and, "After the compliance dates specified in 40 CFR 63.100, a Group 1 process vent that is also subject to the provisions of 40 CFR 60 Subpart RRR is required to comply only with the provisions of 40 CFR 63 Subpart F." [40 CFR 63.110(d)(7)]}

Essential Potential to Emit (PTE) Parameters

I.1. Hours of Operation. This emissions unit is allowed to operate continuously, i.e., 8,760 hour/year. [Rule 62-210.200(PTE), F.A.C.]

Equipment Limitations and Standards

I.2. Organic HAP Control Device. Permittee shall reduce emissions of organic hazardous air pollutants (i.e., chemicals listed in Table 2 of 40 CFR 63 Subpart F) using a vapor collection system and flare meeting the criteria of 40 CFR 63.11(b). [Rules 62-204.800(11), F.A.C., and 40 CFR 63.113(a)(1)]

Test Methods and Procedures

I.3. Flare Requirements. Organic hazardous air pollutant emissions from MA Plant No. 1 Process Vents shall be vented to the Amines Plants Flare, which shall meet the general control device requirements of 40 CFR 63.11(b). Specific permit conditions applicable to the Amines Plants Flare are specified elsewhere in this permit (See **EU 005, Specific Condition G.2. Operating Limitations**). [Rules 62-204.800(11), F.A.C., and 40 CFR 63.113(a)(1)]

Recordkeeping and Reporting Requirements

I.4. Reporting Schedule. The following reports shall be submitted to the Compliance Authority:

Report	Reporting Deadline	Related Condition(s)
Other Recordkeeping and Reporting Requirements	As required by Administrator	**I.6**

[Rule 62-213.440(1)(b), F.A.C.]

I.5. Other Reporting Requirements. See Appendix RR, Facility-Wide Reporting Requirements, for additional reporting requirements. [Rule 62-213.440(1)(b), F.A.C.]

I.6. Other Recordkeeping and Reporting Requirements. emissions unit is subject to the recordkeeping and reporting requirements contained in Section IV, Common Conditions:

C.C.2. Startup, Shutdown, and Malfunction Plan

C.C.3. Recordkeeping and Reporting of Startups, Shutdowns, and Malfunctions

C.C.4. Excess Emissions and Data Obtained During Startups, Shutdowns, and Malfunctions

C.C.5. General Recordkeeping Requirements

C.C.6. General Reporting Requirements for Specific Emission Units Subject to 40 CFR 63 Subpart G

C.C.8. Schedule of Reporting for Specific Sources Subject to 40 CFR 63 Subparts F, G and H

C.C.9. Closed Vent System Inspections

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Subsection J. Emission Unit 050

The specific conditions in this section apply to the following emissions unit:

EU No.	Brief Description
050	Methylamines Plant No. 1 Wastewater

MA Plant No. 1 Wastewater is the bottoms stream from various MA Plant No. 1 distillation columns. The stream, consisting of water and negligible quantities of product and methanol, is directed to the plant sewer system, which goes to the Wastewater Treatment Plant, after processing in the dehydration column and/or the environmental column.

EUs for individual plant wastewater are for regulatory purposes only. Emissions from all wastewater have been included under EU 075, Wastewater Treatment Plant Fugitives.

{Permitting Note: This emissions unit is regulated by 40 CFR 63 Subpart G – National Emissions Standards for Organic Hazardous Air Pollutants from the Synthetic Organic Chemical Manufacturing Industry for Process Vents, Storage Vessels, Transfer Operations, and Wastewater (adopted and incorporated by reference in Rule 62-204.800(11)(b)2., F.A.C.).}

Essential Potential to Emit (PTE) Parameters

J.1. Hours of Operation. This emissions unit is allowed to operate continuously, i.e., 8,760 hour/year. [Rule 62-210.200(PTE), F.A.C.]

Equipment Limitations and Standards

J.2. Group 1 or Group 2 Determination. Permittee shall comply with the requirements in 40 CFR 63.132 (a)(1) through (a)(3), which requires a determination of a wastewater emissions source being a Group 1 or Group 2 stream. For Group 2 streams, the Permittee shall comply with the recordkeeping requirements of 40 CFR 63.147 (**See Specific Condition J.3. Reporting Schedule**). [Rule 62-204.800(11), F.A.C.; 40 CFR 63.132(a) and 63.147]

Recordkeeping and Reporting Requirements

J.3. Reporting Schedule. The following reports and notifications shall be submitted to the Compliance Authority:

Report	Reporting Deadline	Related Condition(s)
Other Reporting Requirements	As required by Administrator	**J.6**

[Rule 62-213.440(1)(b), F.A.C.]

J.4. Other Reporting Requirements. See Appendix RR, Facility-Wide Reporting Requirements, for additional reporting requirements. [Rule 62-213.440(1)(b), F.A.C.]

J.5. Process Knowledge. If Permittee has used process knowledge to determine the annual average concentration of a wastewater stream and/or the annual average flow rate and thereby concluded that a wastewater stream is not a Group 1 stream, Permittee shall keep in a readily accessible location the documentation of how process knowledge was used. [Rule 62-204.800(11), F.A.C., and 40 CFR 63.147(f)]

J.6. Other Recordkeeping and Reporting Requirements. This emissions unit is subject to the recordkeeping and reporting requirements contained in Section IV, Common Conditions:

C.C.5. General Recordkeeping Requirements

C.C.6. General Reporting Requirements for Specific Emission Units Subject to 40 CFR 63 Subpart G

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Subsection K. Emission Unit 051

The specific conditions in this section apply to the following emissions unit:

EU No.	Brief Description
051	Methylamines Plant No. 1 HON Maintenance Wastewater

Wastewater removed during maintenance activities at the MA Plant No. 1 is disposed of in the plant wastewater system.

EUs for individual plant wastewater are for regulatory purposes only and emissions from all wastewater have been included under EU 075, Wastewater Treatment Plant Fugitives.

{Permitting Note: This emissions unit is regulated by 40 CFR 63 Subpart G – National Emissions Standards for Organic Hazardous Air Pollutants from the Synthetic Organic Chemical Manufacturing Industry for Process Vents, Storage Vessels, Transfer Operations, and Wastewater (adopted and incorporated by reference in Rule 62-204.800(11)(b)2., F.A.C.).}

The following specific conditions apply to the emissions unit listed above:

Essential Potential to Emit (PTE) Parameters

K.1. Hours of Operation. This emissions unit is allowed to operate on an as-needed basis. [Rule 62-210.200(PTE), F.A.C.]

Operational Limitations and Standards

K.2. Maintenance Procedures. Permittee shall maintain, modify and update as needed a description of the maintenance procedures for management of wastewaters containing those organic HAPs listed in Table 9 of 40 CFR Subpart G which are generated from the emptying and purging of equipment in the process during temporary shutdowns for inspections, maintenance, and repair (i.e., a maintenance-turnaround) and during periods which are not shutdown (i.e., routine maintenance). The descriptions shall:

a. Specify the process equipment or maintenance tasks that are anticipated to create wastewater during maintenance activities,

b. Specify procedures that will be followed to properly manage the wastewater and control organic HAP emissions to the atmosphere, and

c. Specify the procedures to be followed when clearing materials from process equipment.

[Rule 62-204.800(11), F.A.C., and 40 CFR 63.105(b) & (c)]

Recordkeeping and Reporting Requirements

K.3. Startup, Shutdown, Malfunction Plan. Permittee shall maintain a record of the required information as part of the startup, shutdown, and malfunction plan required under 40 CFR 63.6(e)(3). Plans shall be maintained and kept readily available for inspection for the life of the source, or until 40 CFR 63 standards no longer apply to the source. Previous versions of Plans shall also be maintained for a period of five years following revision. No notification or periodic reporting of maintenance wastewater activities is required. [Rule 62-204.800(11), F.A.C., and 40 CFR 63.105(d)]

K.4. Other Recordkeeping and Reporting Requirements. This emissions unit is subject to the recordkeeping and reporting requirements contained in Section IV, Common Conditions:

C.C.5. General Recordkeeping Requirements

C.C.6. General Reporting Requirements for Specific Emission Units Subject to 40 CFR 63 Subpart G

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Subsection L. Emission Unit 053

The specific conditions in this section apply to the following emissions unit:

EU No.	Brief Description
053	Methylamines Plant Nos. 1 and 4 HON Group 2 Storage Tanks

Storage tanks D-68127, D-68146, D-67116O and D-67134B are used in the common service of both MA Plant Nos. 1 and 4. These storage tanks are vented through scrubbers and/or knock out pots and vented to the Amines Plants Flare (EU 005). The scrubbers are used to maximize product recovery with air emissions being controlled by the flare or boilers. These tanks are all Group 2 tanks because they have a capacity less than 10,000 gallons per 40 CFR 63 Subpart FFFF (Definitions).

{Permitting Note: These tanks are subject to the HON requirements of 40 CFR 63 Subpart G – National Emissions Standards for Organic Hazardous Air Pollutants from the Synthetic Organic Chemical Manufacturing Industry for Process Vents, Storage Vessels, Transfer Operations, and Wastewater (adopted and incorporated by reference in Rule 62-204.800(11)(b)2., F.A.C.).}

The following specific conditions apply to the emissions unit listed above:

Essential Potential to Emit (PTE) Parameters

L.1. Hours of Operation. This emissions unit is allowed to operate on an as-needed basis. [Rule 62-210.200(PTE), F.A.C.]

Recordkeeping and Reporting Requirements

L.2. Dimension and Capacity Records. Permittee shall keep records showing the dimensions of the Group 2 storage vessel and an analysis showing its capacity. Permittee is not required to comply with any other provisions of 40 CFR 63.119 through 40 CFR 63.123. [Rule 62-204.800(11), F.A.C., and 40 CFR 63.123(a)]

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The specific conditions in this section apply to the following emissions unit:

EU No.	Brief Description
054	Methylamines Plant Nos. 1 and 4 NSPS Storage Tanks

Storage tanks D-67204E, D-67216A and D-67216B are used in common service of both MA Plant Nos. 1 and 4.

All product storage tanks are vented through absorbers and/or knock out pots and vented to the flare or boilers. The absorbers are used to maximize product recovery, with air emissions being controlled by the flare.

{*Permitting Note: These tanks are exempt from the NESHAP regulations but remain subject to the NSPS requirements of 40 CFR 60 Subpart Kb, Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction or Modification Commenced After July 23, 1984 (adopted and incorporated by reference in Rule 62-204.800(8)(b)18., F.A.C.).}*

The following specific conditions apply to the emissions unit listed above:

Essential Potential to Emit (PTE) Parameters

M.1. Hours of Operation. This emissions unit is allowed to operate continuously, i.e., 8,760 hour/year. [Rule 62-210.200(PTE), F.A.C.]

Equipment Limitations and Standards

M.2. VOC Reduction. The Methylamines NSPS Storage Tanks shall vent through a closed vent system followed by a control device designed and operated to reduce inlet emissions of VOC by 95 percent. [Rule 62-204.800(8), F.A.C., and 40 CFR 60.112b(a)(3)(i)]

M.3. Flare Requirements. Emissions from the storage tanks shall be vented to the Amines Plants Flare (EU 005), which shall meet the general control device requirements of 40 CFR 60.18. Specific permit conditions applicable to the Amines Plants Flare are specified elsewhere in this permit (See **EU 005, Specific Condition G.2. Operating Limitations**). [Rule 62-204.800(8)., F.A.C., and 40 CFR 60.112b(a)(3)(ii)]

M.4. Closed Vent System Limits. The closed vent system shall be designed to collect all VOC vapors and gases discharged from the storage vessel and operated with no detectable emissions as indicated by an instrument reading of less than 500 ppm above background and visual inspections, as determined in 40 CFR 60.485a(b). [Rule 62-204.800(8), F.A.C., and 40 CFR 60.112b(a)(3)(i)]

Excess Emissions

Rule 62-210.700 (Excess Emissions), F.A.C. cannot vary any requirement of an NSPS, NESHAP or Acid Rain program provision.

M.5. Excess Emissions. Excess emissions resulting from startup, shutdown or malfunction of any emissions unit shall be permitted provided (1) best practices to minimize emissions are adhered to and (2) the duration of excess emissions shall be minimized but in no case exceed two hours in any 24-hour period unless specifically authorized by the Department for longer duration. Excess emissions that are caused entirely or in part by poor maintenance, poor operation, or any other equipment or process failure that may reasonably be prevented during startup, shutdown or malfunction shall be prohibitedExcess emissions which are caused entirely or in part by poor maintenance, poor operation, or any other equipment or process failure which may reasonably be prevented during startup, shutdown, or malfunction shall be prohibited. [Rule 62-210.700(1), F.A.C.]

M.6. Notification and Reporting. In case of excess emissions resulting from malfunctions, the permittee shall notify the Department or the appropriate Local Program in accordance with Rule 62-4.130, F.A.C. A full written report on the malfunctions shall be submitted in a quarterly report, if requested by the Department. [Rule 62-210.700(5), F.A.C.]

Monitoring of Operations

M.7. Storage Vessel Monitoring. Permittee of each storage vessel with a design capacity greater than or equal to 75 m3 but less than 151 m3 storing a liquid with a maximum true vapor pressure greater than or equal to 15.0 kPa shall maintain a record of the VOL stored, the period of storage, and the maximum true vapor pressure of that VOL during the respective storage period. These records shall be kept for at least two years. [Rule 62-204.800(8), F.A.C., and 40 CFR 60.116b(c)]

M.8. Vapor Pressure Monitoring. Permittee of each storage vessel with a design capacity greater than or equal to 75 m3 but less than 151 m3 storing a liquid with a maximum true vapor pressure that is normally less than 27.6 kPa shall notify the Administrator within 30 days when the maximum true vapor pressure of the liquid exceeds the respective maximum true vapor pressure values for each volume range. [Rule 62-204.800(8), F.A.C., and 40 CFR 60.116b(d)]

Recordkeeping and Reporting Requirements

M.9. Reporting Schedule. The following reports and notifications shall be submitted to the Compliance Authority:

Report	Reporting Deadline	Related Condition(s)
Notifications – Excess Vapor Pressure	Within 30 days of event	**M.8.**

[Rule 62-213.440(1)(b), F.A.C.]

M.10. Other Reporting Requirements. See Appendix RR, Facility-Wide Reporting Requirements, for additional reporting requirements. [Rule 62-213.440(1)(b), F.A.C.]

M.11. Storage Vessel Records. Permittee of each storage vessel as specified in 40 CFR 60.110b(a) shall keep readily accessible records showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel. The records required by paragraph (b) of 40 CFR 60.116b shall be kept for the life of the source. [Rule 62-204.800(8), F.A.C., and 40 CFR 60.116b(b)]

Additional Recordkeeping and Reporting Requirements

M.12. Storage Vessel Recordkeeping. The permittee shall maintain a readily accessible record of the volatile organic liquid (VOL) stored, the period of storage, and the maximum true vapor pressure of that VOL for at least two years, and available for Department inspection. [Rule 62-204.800(8), F.A.C., and 40 CFR 60.116b(c)]

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Subsection N. Emission Unit 007

The specific conditions in this section apply to the following emissions unit:

EU No.	Brief Description
007	Higher Amines Plant No. 2 Gas-Fired Heater

At the Higher Amines Plant No. 2, a natural gas-fired preheater is used to heat the reaction of alcohols, ethers, aldehydes, ketones and other amines to yield various alkylamines.

{Permitting Note: This emissions unit is subject to 40 CFR 63, Subpart DDDDD – National Emissions Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters (Boiler MACT) (adopted and incorporated by reference in Rule 62-204.800(11)(b)86., F.A.C.).}

Essential Potential to Emit (PTE) Parameters

N.1. Capacity. The maximum allowed operating rate of the Higher Amines Gas-Fired Heater is 8.4 MMBtu/hr. The gas-fired heater heat capacity will be calculated on a semi-annual basis as the sum of the previous 12 months total measured flow of natural gas to the heater and the average higher heating value of the natural gas. [Rules 62-4.070(3), 62-210.200(PTE) and 62-213.440(1), F.A.C.]

N.2. Hours of Operation. This emissions unit is allowed to operate continuously, i.e., 8,760 hour/year. [Rule 62-210.200(PTE), F.A.C.]

Emission Limitations and Compliance Requirements

N.3. Tune-Up. Permittee shall conduct a biennial tune-up of the boiler. [Rule 62-204.800(11), F.A.C.; 40 CFR 63.7540(a)(11); and Table 3 (Item 2) to Subpart DDDDD of Part 63]
{Permitting Note: The one-time energy assessment for this emissions unit was completed in January 2016.}

N.4. Tune-Up Procedures. Permittee shall perform tune-ups according to the criteria specified in 40 CFR 63.7540(a)(10)(i) through (vi). The Permittee must conduct the tune-up while burning the type of fuel (or fuels in case of units that routinely burn a mixture) that provided the majority of the heat input to the boiler or process heater over the 12 months prior to the tune-up.

a. As applicable, inspect the burner, and clean or replace any components of the burner as necessary (you may perform the burner inspection any time prior to the tune-up or delay the burner inspection until the next scheduled unit shutdown). Units that produce electricity for sale may delay the burner inspection until the first outage, not to exceed 36 months from the previous inspection. At units where entry into a piece of process equipment or into a storage vessel is required to complete the tune-up inspections, inspections are required only during planned entries into the storage vessel or process equipment;

b. Inspect the flame pattern, as applicable, and adjust the burner as necessary to optimize the flame pattern. The adjustment should be consistent with the manufacturer's specifications, if available;

c. Inspect the system controlling the air-to-fuel ratio, as applicable, and ensure that it is correctly calibrated and functioning properly (you may delay the inspection until the next scheduled unit shutdown). Units that produce electricity for sale may delay the inspection until the first outage, not to exceed 36 months from the previous inspection;

d. Optimize total emissions of CO. This optimization should be consistent with the manufacturer's specifications, if available, and with any NOx requirement to which the unit is subject;

e. Measure the concentrations in the effluent stream of CO in parts per million, by volume, and oxygen in volume percent, before and after the adjustments are made (measurements may be either on a dry or wet basis, as long as it is the same basis before and after the adjustments are made). Measurements may be taken using a portable CO analyzer; and

f. Maintain on-site and submit, if requested by the Administrator, a report containing the following information:

(1) The concentrations of CO in the effluent stream in parts per million by volume, and oxygen in volume percent, measured at high fire or typical operating load, before and after the tune-up of the boiler or process heater;

(2) A description of any corrective actions taken as a part of the tune-up; and

(3) The type and amount of fuel used over the 12 months prior to the tune-up, but only if the unit was physically and legally capable of using more than one type of fuel during that period. Units sharing a fuel meter may estimate the fuel used by each unit.

[Rule 62-204.800(11), F.A.C.; and 40 CFR 63.7540(a)(10)]

RECORDKEEPING AND REPORTING

N.5. Reporting Schedule. The following reports and notifications shall be submitted to the Compliance Authority:

Report	Reporting Deadline	Related Condition(s)
Tune-Up Reports	Annual – if requested by Administrator	**N.7.**

[Rule 62-213.440(1)(b), F.A.C.]

N.6. Other Reporting Requirements. See Appendix RR, Facility-Wide Reporting Requirements, for additional reporting requirements. [Rule 62-213.440(1)(b), F.A.C.]

N.7. Tune-Up Reports. Permittee shall maintain and submit, if requested by the Administrator, a report containing the following information:

a. The concentrations of CO in the effluent stream in parts per million by volume, and oxygen in volume percent, measured at high fire or typical operating load, before and after the tune-up of the boiler or process heater;

b. A description of any corrective actions taken as a part of the tune-up; and

c. The type and amount of fuel used over the 12 months prior to the tune-up, but only if the unit was physically and legally capable of using more than one type of fuel during that period. Units sharing a fuel meter may estimate the fuel used by each unit.

[Rule 62-204.800(11), F.A.C.; and 40 CFR 63.7540(a)(10)(vi)]

N.8. Records Retention. Permittee shall maintain records in accordance with 40 CFR 63.7560 as follows:

a. Your records must be in a form suitable and readily available for expeditious review, according to 40 CFR 63.10(b)(1).

b. As specified in 40 CFR 63.10(b)(1), you must keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.

c. The Permittee must keep each record on site, or they must be accessible from on site (for example, through a computer network), for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to 40 CFR 63.10(b)(1). You can keep the records off site for the remaining 3 years.

[Rule 62-204.800(11), F.A.C.; and 40 CFR 63.7560]

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Subsection O. Emission Unit 055

The specific conditions in this section apply to the following emissions unit:

EU No.	Brief Description
055	72-inch Batch Column Process Vent

A 72-inch batch distillation column is physically located within the Higher Amines Plant area but is a detached stand-alone processing unit. The process vent from the column exhausts to the Amines Plants Flare (EU 005) or boilers (EU 001 and EU 003) when not under vacuum operation.

As the column is a flexible process (i.e., not used for the same process all year), the actual operation of the column is continuous operation when in use. This column does not process, use, or generate any organic HAPs listed in section 112(b) of the Clean Air Act or hydrogen halide and halogen HAP. This column does not manufacture as a primary product the chemicals listed in 40 CFR 63.100(b)(1)(i) or (ii).

{Permitting Note: This column does not process, use, or generate any organic HAPs listed in section 112(b) of the Clean Air Act or hydrogen halide and halogen HAP; therefore, this column is not subject to 40 CFR 63 Subpart FFFF. This column does not manufacture as a primary product the chemicals listed in 40 CFR 63.100(b)(1)(i) or (ii); therefore, this column is not subject to 40 CFR 63 Subpart G.}

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Subsection P. Emission Unit 056

The specific conditions in this section apply to the following emissions unit:

EU No.	Brief Description
056	72-inch Batch Column Maintenance Wastewater

Wastewater removed during maintenance activities on the 72-inch batch distillation column and associated equipment is disposed of in the plant sewer system, which goes to the Wastewater Treatment Plant. The 72-inch Batch Column is physically located within the Higher Amines Plant area but is a detached, stand-alone activity. EUs for individual plant wastewater are for regulatory purposes only. Emissions from all wastewater have been included under EU 075, Wastewater Treatment Plant Fugitives.

{Permitting Note: This column does not process, use, or generate any organic HAPs listed in section 112(b) of the Clean Air Act or hydrogen halide and halogen HAP; therefore, this column is not subject to 40 CFR 63 Subpart FFFF. This column does not manufacture as a primary product the chemicals listed in 40 CFR 63.100(b)(1)(i) or (ii); therefore, this column is not subject to 40 CFR 63 Subpart G.}

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Subsection Q. Emission Unit 058

The specific conditions in this section apply to the following emissions unit:

EU No.	Brief Description
058	DIMLA MON Group 2 Storage Tank

The Formalin storage tank (TK-62141), installed for the DIMLA unit, also meets the MON definition of a Group 2 storage tank because it has a capacity less than 10,000 gallons. The DIMLA Formalin tank (TK-62141) is stainless steel and vents to the atmosphere.

{Permitting Note: This emissions unit is subject to 40 CFR 63 Subpart G – National Emissions Standards for Organic Hazardous Air Pollutants from the Synthetic Organic Chemical Manufacturing Industry for Process Vents, Storage Vessels, Transfer Operations, and Wastewater (adopted and incorporated by reference in Rule 62-204.800(11)(b)2., F.A.C.) and 40 CFR 63 Subpart FFFF - National Emission Standards for Hazardous Air Pollutants: Miscellaneous Organic Chemical Manufacturing (adopted and incorporated by reference in Rule 62-204.800(11)(b)63., F.A.C.).}

Essential Potential to Emit (PTE) Parameters

Q.1. Hours of Operation. This emissions unit is allowed to operate on an as-needed basis. [Rule 62-210.200(PTE), F.A.C.]

Recordkeeping and Reporting Requirements

Q.2. Operational Records. Permittee shall keep records showing the dimensions of each storage vessel and an analysis showing the capacity of each vessel. Permittee is not required to comply with any other provisions of 40 CFR 63.119 through 40 CFR 63.123, per 40 CFR 63.119(a)(3). [Rule 62-204.800(11), F.A.C., and 40 CFR 63.123(a)]

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Subsection R. Emission Unit 059

The specific conditions in this section apply to the following emissions unit:

EU No.	Brief Description
059	72" Batch Column Wastewater

Wastewater is comprised of the column bottoms stream from the 72-inch batch distillation column. This wastewater is disposed in the plant sewer system, which goes to the Wastewater Treatment Plant. The 72-inch Batch Column is physically located within the Higher Amines Plant area but is a detached stand-alone activity.

EUs for individual plant wastewater are for regulatory purposes only. Emissions from all wastewater have been included under EU 075, Wastewater Treatment Plant Fugitives.

{Permitting Note: This column does not process, use, or generate any organic HAPs listed in section 112(b) of the Clean Air Act or hydrogen halide and halogen HAP; therefore, this column is not subject to 40 CFR 63 Subpart FFFF. This column does not manufacture as a primary product the chemicals listed in 40 CFR 63.100(b)(1)(i) or (ii); therefore, this column is not subject to 40 CFR 63 Subpart G.}

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The specific conditions in this section apply to the following emissions unit:

EU No.	Brief Description
060	Methylamines Plant No. 4 Gas Fired Heater

At MA Plant No. 4, a natural gas-fired preheater is used to heat the reaction of methyl alcohol, ammonia and recycled methylamine to yield methylamine. The feed streams to the MA process are preheated using reactor effluents in a series of heat exchangers to maximize energy efficiency. A secondary steam reboiler is provided for start-up and is used as needed to maintain proper temperature of the streams.

{Permitting Note: This emissions unit is subject to 40 CFR 63, Subpart DDDDD – National Emissions Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters (Boiler MACT) (adopted and incorporated by reference in Rule 62-204.800(11)(b)86., F.A.C.).}

Essential Potential to Emit (PTE) Parameters

S.1. Permitted Capacity. The maximum allowable heat input rate is as follows:

EU No.	Unit Description	MMBtu/hr Heat Input	Fuel Type
060	MA Plant No. 4 Gas-Fired Heater	10	Natural Gas

[Rules 62-4.070(3), 62-210.200(PTE), 62-296.406, 62-213.440(1), F.A.C., and Permit No. 1130004-020-AC]

S.2. Methods of Operation (fuel). The fuel that is allowed to be burned in this unit is natural gas. The heat input rate for this unit will be calculated on a semi-annual basis as the sum of the previous 12 months total measured flow of natural gas to the heater and the average higher heating value of the natural gas. [Rules 62-4.070(3), F.A.C., and Permit No. 1130004-020-AC]

S.3. Hours of Operation. This emissions unit is allowed to operate continuously, i.e., 8,760 hours/year. [Rule 62-210.200(PTE), F.A.C.]

Emission Limitations and Compliance Requirements

S.4. Tune-Up. Permittee shall conduct an annual tune-up of the boiler. [Rule 62-204.800(11), F.A.C.; 40 CFR 63.7540(a)(10); and Table 3 (Item 3) to Subpart DDDDD of Part 63]

{Permitting Note: The one-time energy assessment for this emissions unit was completed in January 2016.}

Monitoring of Operations

S.5. Tune-Up Procedures. The Permittee shall conduct an annual tune-up of the boiler or process heater to demonstrate continuous compliance as specified in paragraphs (a)(10)(i) through (vi) of 40 CFR 63.7540. You must conduct the tune-up while burning the type of fuel (or fuels in case of units that routinely burn a mixture) that provided the majority of the heat input to the boiler or process heater over the 12 months prior to the tune-up. This frequency does not apply to limited-use boilers and process heaters, as defined in 40 CFR 63.7575, or units with continuous oxygen trim systems that maintain an optimum air to fuel ratio.

a. As applicable, inspect the burner, and clean or replace any components of the burner as necessary (you may perform the burner inspection any time prior to the tune-up or delay the burner inspection until the next scheduled unit shutdown). Units that produce electricity for sale may delay the burner inspection until the first outage, not to exceed 36 months from the previous inspection. At units where entry into a piece of process equipment or into a storage vessel is required to complete the tune-up inspections, inspections are required only during planned entries into the storage vessel or process equipment;

b. Inspect the flame pattern, as applicable, and adjust the burner as necessary to optimize the flame pattern. The adjustment should be consistent with the manufacturer's specifications, if available;

c. Inspect the system controlling the air-to-fuel ratio, as applicable, and ensure that it is correctly calibrated and functioning properly (you may delay the inspection until the next scheduled unit shutdown). Units

that produce electricity for sale may delay the inspection until the first outage, not to exceed 36 months from the previous inspection;

d. Optimize total emissions of CO. This optimization should be consistent with the manufacturer's specifications, if available, and with any NOx requirement to which the unit is subject;

e. Measure the concentrations in the effluent stream of CO in parts per million, by volume, and oxygen in volume percent, before and after the adjustments are made (measurements may be either on a dry or wet basis, as long as it is the same basis before and after the adjustments are made). Measurements may be taken using a portable CO analyzer; and

f. Maintain on-site and submit, if requested by the Administrator, a report containing the following information:

(1) The concentrations of CO in the effluent stream in parts per million by volume, and oxygen in volume percent, measured at high fire or typical operating load, before and after the tune-up of the boiler or process heater;

(2) A description of any corrective actions taken as a part of the tune-up; and

(3) The type and amount of fuel used over the 12 months prior to the tune-up, but only if the unit was physically and legally capable of using more than one type of fuel during that period. Units sharing a fuel meter may estimate the fuel used by each unit.

[Rule 62-204.800(11), F.A.C.; and 40 CFR 63.7540(a)(10)(vi)]

Recordkeeping and Reporting Requirements

S.6. Reporting Schedule. The following reports and notifications shall be submitted to the Compliance Authority:

Report	Reporting Deadline	Related Condition(s)
Tune-Up Reports	if requested by Administrator	**S.5.f.**

[Rule 62-213.440(1)(b), F.A.C.]

S.7. Other Reporting Requirements. See Appendix RR, Facility-Wide Reporting Requirements, for additional reporting requirements. [Rule 62-213.440(1)(b), F.A.C.]

S.8. Tune-Up Records and Reports. Permittee shall maintain records of information specified in the **Specific Condition S.5.f. Tune-Up Procedures**. Such records shall be kept in accordance with 40 CFR 63.7560 as follows:

a. Your records must be in a form suitable and readily available for expeditious review, according to 40 CFR 63.10(b)(1).

b. As specified in 40 CFR 63.10(b)(1), you must keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.

c. The Permittee must keep each record on site, or they must be accessible from on site (for example, through a computer network), for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to 40 CFR 63.10(b)(1). You can keep the records off site for the remaining 3 years.

[Rule 62-204.800(11), F.A.C.; and 40 CFR 63.7560]

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Subsection T. Emission Unit 033

The specific conditions in this section apply to the following emissions unit:

EU No.	Brief Description
033	Methylamines Plant No. 4 Process Vents

Emissions from several process vents at MA Plant No. 4 are collected using a vapor collection system and routed to the amines plants flare or boilers during normal operation. These process vents are used intermittently, and include, but are not limited to, the Low-Pressure Absorber vent and the High-Pressure Absorber vent. (The absorber is used for product recovery and is not considered a pollution control device.)

{Permitting Note: This emissions unit is regulated by 40 CFR 63 Subpart G – National Emissions Standards for Organic Hazardous Air Pollutants from the Synthetic Organic Chemical Manufacturing Industry for Process Vents, Storage Vessels, Transfer Operations, and Wastewater (adopted and incorporated by reference in Rule 62-204.800(11)(b)2., F.A.C.). As stated in 40 CFR 63 Subpart G "After the compliance dates specified in 40 CFR 63.100 of 40 CFR 63 Subpart F, a Group 1 process vent that is also subject to the provisions of 40 CFR 60 Subpart NNN is required to comply only with the provisions of 40 CFR 63 Subpart G*." [40 CFR 63.110(d)(4)]; and "After the compliance dates specified in 40 CFR 63.100 of* 40 CFR 63 Subpart *F, a Group 1 process vent that is also subject to the provisions of 40 CFR 60 Subpart RRR is required to comply only with the provisions of* 40 CFR 63 Subpart G*." [40 CFR 63.110(d)(7).]}*

Essential Potential to Emit (PTE) Parameters

T.1. Hours of Operation. This emissions unit is allowed to operate continuously, i.e., 8,760 hours/year.

[Rule 62-210.200(PTE), F.A.C.]

Equipment Limitations and Standards

T.2. Organic HAP Control Device. Permittee shall reduce emissions of organic hazardous air pollutants (i.e., chemicals listed in Table 2 of 40 CFR 60 Subpart F) using a vapor collection system and flare meeting the criteria of 40 CFR 63.11(b). [Rule 62-204.800(11), F.A.C.; 40 CFR 63.11(b) and 40 CFR 63.113(a)(1)]

T.3. Flare Requirements. Organic hazardous air pollutant emissions from MA Plant No. 4 Process Vents shall be vented to the Amines Plants Flare (EU 005) which shall meet the general control device requirements of 40 CFR 63.11(b). Specific permit conditions applicable to the Amines Plants Flare are specified in this permit under Emissions Unit 005, Subsection G. [Rule 62-204.800(11), F.A.C.; 40 CFR 63.11(b) and 40 CFR 63.113(a)(1)]

T.4. Other Limitations and Standards. This emissions unit is subject to the emission limitations and standards contained in Section IV, Common Conditions:

C.C.2. Startup, Shutdown, and Malfunction Plan

C.C.4. Excess Emissions and Data Obtained During Startups, Shutdowns, and Malfunctions

Test Methods and Procedures

T.5. Other Methods and Procedures. This emissions unit is subject to the test methods and procedures contained in Section IV, Common Condition. **C.C.9.** Closed Vent System Inspections.

Recordkeeping and Reporting Requirements

T.6. Reporting Schedule. The following reports and notifications shall be submitted to the Compliance Authority:

Report	Reporting Deadline	Related Condition(s)
Other Recordkeeping and Reporting Requirements	As required by Administrator	**T.8.**

[Rule 62-213.440(1)(b), F.A.C.]

T.7. Other Reporting Requirements. See Appendix RR, Facility-Wide Reporting Requirements, for additional reporting requirements. [Rule 62-213.440(1)(b), F.A.C.]

T.8. Other Recordkeeping and Reporting Requirements. This emissions unit is subject to the recordkeeping and reporting requirements contained in Section IV, Common Conditions:

C.C.2. Startup, Shutdown, and Malfunction Plan

C.C.3. Recordkeeping and Reporting of Startups, Shutdowns, and Malfunctions

C.C.5. General Recordkeeping Requirements

C.C.6. General Reporting Requirements for Specific Emission Units Subject to 40 CFR 63 Subpart G

C.C.8. Schedule of Reporting for Specific Sources Subject to 40 CFR 63 Subparts F, G and H

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The specific conditions in this section apply to the following emissions unit:

EU No.	Brief Description
034	Methylamines Plant No. 4 Wastewater

The MA Plant No. 4 wastewater is the stream from the MA Plant No. 4 distillation process. The stream, consisting of water and negligible quantities of product, is directed to the plant sewer system, which goes to the Wastewater Treatment Plant. Wastewater streams covered under HON includes the No. 4 Dehydration Column bottoms.

EUs for individual plant wastewater are for regulatory purposes only. Emissions from all wastewater have been included under EU 075, Wastewater Treatment Plant Fugitives.

{Permitting Note: This emissions unit is regulated by 40 CFR 63 Subpart G – National Emissions Standards for Organic Hazardous Air Pollutants from the Synthetic Organic Chemical Manufacturing Industry for Process Vents, Storage Vessels, Transfer Operations, and Wastewater (adopted and incorporated by reference in Rule 62-204.800(11)(b)2., F.A.C.).}

Essential Potential to Emit (PTE) Parameters

U.1. Hours of Operation. This emissions unit is allowed to operate continuously, i.e., 8,760 hours/year. [Rule 62-210.200(PTE), F.A.C.]

Equipment Limitations and Standards

U.2. Group 1 or Group 2 Determination. Permittee shall comply with the requirements in 40 CFR 63.132(a)(1) through (a)(3), which requires that Permittee determine whether a wastewater emission source is a Group 1 or Group 2 stream. For Group 2 streams, Permittee shall comply with the recordkeeping requirements of 40 CFR 63.146. [Rule 62-204.800(11), F.A.C., and 40 CFR 63.132(a)]

Recordkeeping and Reporting Requirements

U.3. Reporting Schedule. The following reports and notifications shall be submitted to the Compliance Authority:

Report	Reporting Deadline	Related Condition(s)
Other Recordkeeping and Reporting Requirements	As required by Administrator	**U.6.**

[Rule 62-213.440(1)(b), F.A.C.]

U.4. Other Reporting Requirements. See Appendix RR, Facility-Wide Reporting Requirements, for additional reporting requirements. [Rule 62-213.440(1)(b), F.A.C.]

U.5. Recordkeeping. If Permittee uses process knowledge to determine the annual average concentration of a wastewater stream and/or the annual average flow rate used to determine that a wastewater stream is not a Group 1 stream, Permittee shall keep in a readily accessible location the documentation of how process knowledge was used. [Rule 62-204.800(11), F.A.C., and 40 CFR 63.147]

U.6. Other Recordkeeping and Reporting Requirements. This emissions unit is subject to the recordkeeping and reporting requirements contained in Section IV, Common Conditions:

C.C.5. General Recordkeeping Requirements

C.C.6. General Reporting Requirements for Specific Emission Units Subject to 40 CFR 63 Subpart G

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Subsection V. Emission Unit 035

The specific conditions in this section apply to the following emissions unit:

EU No.	Brief Description
035	Methylamines Plant No. 4 HON Maintenance Wastewater

Wastewater removed during maintenance activities at the MA Plant No. 4 is disposed of in the plant sewer system, which goes to the Wastewater Treatment Plant.

EUs for individual plant wastewater are for regulatory purposes only. Emissions from all wastewater have been included under EU 075, Wastewater Treatment Plant Fugitives.

{Permitting Note: This emissions unit is regulated by 40 CFR 63 Subpart G – National Emissions Standards for Organic Hazardous Air Pollutants from the Synthetic Organic Chemical Manufacturing Industry for Process Vents, Storage Vessels, Transfer Operations, and Wastewater (adopted and incorporated by reference in Rule 62-204.800(11)(b)2., F.A.C.).}`

Essential Potential to Emit (PTE) Parameters

1. Hours of Operation. This emissions unit is allowed to operate on an as-needed basis. [Rule 62-210.200(PTE), F.A.C.]

Operational Limitations and Standards

2. Maintenance Procedures. Permittee shall maintain, modify and update as needed a description of maintenance procedures for management of wastewaters containing those organic HAPs listed in Table 9 of 40 CFR 63 Subpart G which are generated from the emptying and purging of equipment in the process during temporary shutdowns for inspections, maintenance, and repair (i.e., a maintenance-turnaround) and during periods which are not shutdown (i.e., routine maintenance). The descriptions shall:

a. Specify the process equipment or maintenance tasks that are anticipated to create wastewater during maintenance activities,

b. Specify procedures that will be followed to properly manage the wastewater and control organic HAP emissions to the atmosphere, and

c. Specify the procedures to be followed when clearing materials from process equipment.

[Rules 62-204.800(11), F.A.C.; 40 CFR 63.105(b) & (c), and 40 CFR 63 Subpart G - Table 9]

Recordkeeping and Reporting Requirements

3. Startup, Shutdown, Malfunction Plan. Permittee shall maintain a record of the required information as part of the startup, shutdown, and malfunction plan required under 40 CFR 63.6(e)(3). Plans shall be maintained and kept readily available for inspection for the life of the source, or until 40 CFR 63 standards no longer apply to the source. Previous versions of Plans shall also be maintained for a period of five years following revision. No notification or periodic reporting of maintenance wastewater activities is required. [Rules 62-204.800(11), F.A.C., and 40 CFR 63.105(d)]

4. Other Recordkeeping and Reporting Requirements. This emissions unit is subject to the recordkeeping and reporting requirements contained in Section IV, Common Conditions:

C.C.5. General Recordkeeping Requirements

C.C.6. General Reporting Requirements for Specific Emission Units Subject to 40 CFR 63 Subpart G

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Subsection W. Emission Unit 036

The specific conditions in this section apply to the following emissions unit:

EU No.	Brief Description
036	Methylamines Plant Nos. 1 and 4 HON Equipment Leaks

HON Equipment Leaks (Methanol Storage leaks) from MA Plant No. 1 and MA Plant No. 4 are comprised of fugitive emissions from the pump seals, pressure relief valves, open-ended valves or lines, valves, connectors, and sampling points in organic hazardous air pollutant service.

EUs for equipment leaks are for regulatory purposes only and emissions are reported under EU 062, Facility-wide Equipment Leak Fugitives.

{Permitting Note: This emissions unit is regulated by 40 CFR 63 Subpart H - National Emissions Standards for Organic Hazardous Air Pollutants for Equipment Leaks (adopted and incorporated by reference in Rule 62-204.800(11)(b)3., F.A.C.).}

Essential Potential to Emit (PTE) Parameters

W.1. Hours of Operation. This emissions unit is allowed to operate on an as-needed basis. [Rule 62-210.200(PTE), F.A.C.]

Equipment Limitations and Standards

W.2. Pumps. Permittee shall meet the criteria set forth in 40 CFR 63.163 for pumps in light liquid service that have been designated by Permittee to be in organic hazardous air pollutant light liquid service for 300 or more hours per year. [Rule 62-204.800(11), F.A.C., and 40 CFR 63.163]

W.3. Pressure Relief Devices. Permittee shall comply with the requirements set forth in 40 CFR 63.165 for pressure relief devices in gas/vapor service that have been designated by Permittee to be in organic hazardous air pollutant gas/vapor service for 300 or more hours per year. Pressure relief devices that are routed to a process or fuel gas system are exempt. [Rule 62-204.800(11), F.A.C., and 40 CFR 63.165]

W.4. Open-ended Valves or Lines. Permittee shall comply with requirements set forth in 40 CFR 63.167 for open-ended lines that have been designated by Permittee to be in organic hazardous air pollutant service for 300 or more hours per year. [Rule 62-204.800(11), F.A.C., and 40 CFR 63.167]

W.5. Valves. Permittee shall comply with Phase III leak detection and repair criteria set forth in 40 CFR 63.168 for valves in light liquid and gas service that have been designated by Permittee to be in organic hazardous air pollutant light liquid/gas service for 300 or more hours per year. [Rule 62-204.800(11), F.A.C., and 40 CFR 63.168]

W.6. Connectors. Permittee shall comply with Phase III leak detection and repair criteria set forth in 40 CFR 63.174 for connectors in light liquid and gas service that have been designated by Permittee to be in organic hazardous air pollutant light liquid/gas service for 300 or more hours per year. [Rule 62-204.800(11), F.A.C., and 40 CFR 63.174]

W.7. Sampling Points. Permittee shall meet the criteria set forth in 40 CFR 63.166 for sampling points in organic hazardous service that have been designated by Permittee to be in organic hazardous air pollutant service for 300 or more hours per year. [Rule 62-204.800(11), F.A.C., and 40 CFR 63.166]

Compliance Methods and Procedures

W.8. Pumps. In order to comply with the requirements of 40 CFR 63.163, Permittee shall either comply with the Phase III leak detection and repair requirements specified in 40 CFR 63.163 or comply by using methods specified in 40 CFR 63.163(e), (f), or (g). [Rule 62-204.800(11), F.A.C., 40 CFR 63.163]

W.9. Pressure Relief Devices. After pressure releases from pressure relief valves that are not equipped with upstream rupture disks, the pressure relief device shall be returned to less than 500 ppmv above background,

as confirmed by the method specified in 40 CFR 63.180(c), as soon as practicable, but no later than five days after the release. Any pressure relief device with an upstream rupture disk is exempt from monitoring, provided that in the event that a release ruptures the disk, the disk is replaced as soon as practicable, but no later than five days after the release. [Rule 62-204.800(11), F.A.C.; 40 CFR 63.165, and 40 CFR 63.180]

W.10. Open-ended Valves or Lines. Each open-ended valve or line shall be equipped with a cap, blind flange, plug, or a second valve, except for open-ended valves specified in 40 CFR 63.167(d) & (e), which are exempt. Permittee shall also comply with work and operating practices specified in 40 CFR 63.167(a)(2), (b), and (c). [Rule 62-204.800(11), F.A.C., and 40 CFR 63.167]

W.11. Valves. Permittee shall inspect and repair valves according to the criteria specified in 40 CFR 63.168. [Rule 62-204.800(11), F.A.C.; 40 CFR 63.168 and 40 CFR 63.180]

W.12. Connectors. Permittee shall inspect and repair connectors according to the criteria specified in 40 CFR 63.174. [Rule 62-204.800(11), F.A.C., and 40 CFR 63.174]

W.13. Sampling Points. Each sampling connection system shall be equipped with a closed-purge, closed-loop, or closed-vent system. Gases displaced during filling of the sample container are not required to be collected or captured. Each sampling system shall meet one of the specifications specified in 40 CFR 63.166(b). [Rule 62-204.800(11), F.A.C., and 40 CFR 63.166]

Recordkeeping and Reporting Requirements

W.14. Reporting Schedule. The following reports and notifications shall be submitted to the Compliance Authority:

Report	Reporting Deadline	Related Condition(s)
Periodic Reports	submitted with Semiannual Progress Reports	**W.16., W.17., W.18., W.19., W.20.**
Other Reporting Requirements	As required by Administrator	**W.22.**

[Rule 62-213.440(1)(b), F.A.C.]

W.15. Other Reporting Requirements. See Appendix RR, Facility-Wide Reporting Requirements, for additional reporting requirements. [Rule 62-213.440(1)(b), F.A.C.]

W.16. Pumps. If Permittee elects to demonstrate compliance with the requirements of 40 CFR 63.163 by implementing a leak detection and repair program, records shall be maintained in accordance with 40 CFR 63.181 (b)(1)(i), (b)(7), (c), (d), and if a quality improvement plan is implemented, records required under paragraph (h) shall also be maintained. If the Permittee elects to demonstrate compliance using methods specified in 40 CFR 63.163(e), (f), or (g), other relevant records specified in 40 CFR 63.163 shall be maintained. Periodic reports containing relevant information specified in 40 CFR 63.182(d) shall be submitted to the Department. [Rule 62-204.800(11), F.A.C.; 40 CFR 63.181 and 63.182]

W.17. Pressure relief devices. Records shall be maintained in accordance with 40 CFR 63.181(b)(1)(i), (b)(3), and (f). Periodic reports meeting the specifications of 40 CFR 63.182(d)(xiv) shall be submitted to the Department. [Rule 62-204.800(11), F.A.C.; 40 CFR 63.181 and 63.182]

W.18. Open-ended valves or lines. Permittee shall maintain records specified in 40 CFR 63.181 (b)(1)(i) and no periodic reporting shall be required under 40 CFR 63.182. Notwithstanding, Title V semi-annual progress reports shall be submitted that identify any instances of non-compliance and annual Title V compliance certification reports must certify whether or not compliance with applicable requirements has been achieved. [Rule 62-204.800(11), F.A.C.; 40 CFR 63.181 and 63.182]

W.19. Valves. Records shall be maintained in accordance with 40 CFR 63.181(b)(1)(i) & (ii), (b)(7), (d), and if a quality improvement plan is implemented, records required under paragraph (i) shall also be required. Periodic reports containing relevant information specified in 40 CFR 63.182(d) shall be submitted to the Department. [Rule 62-204.800(11), F.A.C.; 40 CFR 63.181 and 63.182]

W.20. Connectors. Records shall be maintained in accordance with 40 CFR 63.181(b)(1)(i) & (ii), (b)(5), (b)(7), and (d). Periodic reports containing relevant information specified in 40 CFR 63.182(d) shall be submitted to the Department. [Rule 62-204.800(11), F.A.C.; 40 CFR 63.181 and 63.182]

W.21. Sampling Points. Permittee shall maintain records specified in 40 CFR 63.181(b)(1)(i) and no periodic reporting shall be required. [Rule 62-204.800(11), F.A.C., and 40 CFR 63.181]

Additional Recordkeeping and Reporting Requirements

W.22. Other Recordkeeping and Reporting Requirements. This emissions unit is subject to the recordkeeping and reporting requirements contained in Section IV, Common Condition:

C.C.8. Schedule of Reporting for Specific Sources Subject to 40 CFR 63 Subparts F, G and H.

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Subsection X. Emission Unit 037

The specific conditions in this section apply to the following emissions unit:

EU No.	Brief Description
037	Methylamines Plant No. 4 VOC Equipment Leaks

MA Plant No. 4 VOC Equipment Leaks is comprised of fugitive emissions from the pressure relief valves, open-ended valves or lines, valves, connectors, and sampling points in VOC service. Components are considered in VOC service when the piece of equipment contains or contacts a process fluid that is at least 10 percent VOC by weight.

EUs for equipment leaks are for regulatory purposes only and emissions are reported under EU 062, Facility-wide Equipment Leak Fugitives.

{Permitting Note: This emissions unit is subject to 40 CFR 60 Subpart VVa - Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry for Which Construction, Reconstruction, or Modification Commenced After November 7, 2006 (adopted and incorporated by reference in Rule 62-204.800(8)(b)55., F.A.C.). As an alternative means of compliance in accordance with 40 CFR 60.480a(e)(2), Taminco chooses to comply with 40 CFR Part 63 Subpart H - National Emissions Standards for Organic Hazardous Air Pollutants for Equipment Leaks (adopted and incorporated by reference in Rule 62-204.800(11)(b)3., F.A.C.). When choosing to comply with 40 CFR part 63 Subpart H, the requirements of 40 CFR 60.485a(d), (e), and (f), and 40 CFR 60.486a(i) & (j) still apply.}

Essential Potential to Emit (PTE) Parameters

X.1. Hours of Operation. This emissions unit is allowed to operate on an as-needed basis. [Rule 62-210.200(PTE), F.A.C.]

Equipment Limitations and Standards

X.2. Pumps. This emissions unit is equipped with seal less pumps and is therefore exempt from the requirements of 40 CFR 63.163. [Rules 62-204.800(11), F.A.C., and 40 CFR 63.162(d)]

X.3. Pressure relief devices. Permittee shall comply with the requirements set forth in 40 CFR 63.165 for pressure relief devices in gas/vapor service. Permittee shall comply with the requirements set forth in 40 CFR 63.169 for pressure relief devices in light liquid service. Pressure relief devices that are routed to a process or fuel gas system are exempt. [Rule 62-204.800(11), F.A.C.; 40 CFR 63.165 and 63.169]

X.4. Open-ended valves or lines. Permittee shall comply with requirements set forth in 40 CFR 63.167 for open-ended lines that have been designated by Permittee to be in organic hazardous air pollutant service for 300 or more hours per year. [Rule 62-204.800(11), F.A.C., and 40 CFR 63.167]

X.5. Valves. Permittee shall comply with the requirements set forth in 40 CFR 63.168 for valves in light liquid or gas/vapor service. [62-204.800(11), F.A.C., and 40 CFR 63.168]

X.6. Flanges and Connectors. Permittee shall comply with the requirements set forth in 40 CFR 63.174 for flanges and connectors. [62-204.800(11), F.A.C., and 40 CFR 63.174]

X.7. Sampling Points. Permittee shall meet the criteria set forth in 40 CFR 63.166 for sampling points. [Rule 62-204.800(11), F.A.C., and 40 CFR 63.166]

Test Methods and Procedures

X.8. Test Methods. Permittee shall determine compliance with the standards using the methods specified in 40 CFR 63.180, except permittee shall also comply with 40 CFR 60.485a(d). [Rule 62-204.800(11), F.A.C., and 40 CFR 63.180]

X.9. Pumps. This emissions unit is equipped with seal less pumps and is therefore exempt from the requirements of 40 CFR 63.163. [Rule 62-204.800(11), F.A.C., and 40 CFR 63.162(d)]

X.10. Pressure relief devices. After pressure releases from pressure relief valves, the pressure relief device shall be returned to less than 500 ppmv above background, as confirmed by the method specified in 40 CFR 63.180(c), as soon as practicable, but no later than five days after the release. [Rule 62-204.800(11), F.A.C.; 40 CFR 63.165 and 63.180(c)]

X.11. Open-ended valves or lines. Each open-ended valve or line shall be equipped with a cap, blind flange, plug, or a second valve. Permittee shall also comply with work and operating practices specified in 40 CFR 63.167(a)(2), (b) & (c). [Rule 62-204.800(11), F.A.C., and 40 CFR 63.167(a)(2), (b) & (c)]

X.12. Valves. Permittee shall inspect and repair valves in light liquid or gas/vapor service according to the criteria specified in 40 CFR 63.168. [Rule 62-204.800(11), F.A.C.; 40 CFR 63.168]

X.13. Connectors. Permittee shall inspect and repair connectors according to the criteria specified in 40 CFR 63.174. [Rule 62-204.800(11), F.A.C., and 40 CFR 63.174]

X.14. Sampling Points. Each sampling connection system shall be equipped with a closed-purge, closed-loop, or closed-vent system. Each sampling system shall meet one of the specifications specified in 40 CFR 63.166(b). [Rule 62-204.800(11), F.A.C., and 40 CFR 63.166(b)]

Recordkeeping and Reporting Requirements

X.15. Reporting Schedule. The following reports and notifications shall be submitted to the Compliance Authority:

Report	Reporting Deadline	Related Condition(s)
Periodic Reports	submitted with Semiannual Progress Reports	**X.18., X.19., X.20.**
Other Reporting Requirements	As required by Administrator	**X.25.**

[Rule 62-213.440(1)(b), F.A.C.]

X.16. Other Reporting Requirements. See Appendix RR, Facility-Wide Reporting Requirements, for additional reporting requirements. [Rule 62-213.440(1)(b), F.A.C.]

X.17. Pumps. This emissions unit is equipped with seal less pumps and is therefore exempt from the requirements of 40 CFR 63.163. [Rule 62-204.800(11), F.A.C., and 40 CFR 63.163]

X.18. Pressure Relief Devices. Records shall be maintained in accordance with 40 CFR 63.181(b)(1)(i), 63.181(b)(3), and 63.181(d). Periodic reports containing relevant information specified in 40 CFR 63.182(d) shall be submitted to the Department. [Rule 62-204.800(11), F.A.C., and 40 CFR 63.181(b)(1)(i), 63.181(b)(3), and 63.181(d)]

X.19. Valves. Records shall be maintained in accordance with 40 CFR 63.181(b)(1)(i and ii), and 63.181(d). Records shall also be maintained in accordance with 40 CFR 63.181(7 and 8) for every valve subject to the requirements of 40 CFR 63.168(g and h). Periodic reports containing relevant information specified in 40 CFR 63.182(d) shall be submitted to the Department. [Rule 62-204.800(11), F.A.C., and 40 CFR 63.168, 63.181, and 63.182(d)]

X.20. Connectors. Records shall be maintained in accordance with 40 CFR 60.486a(b)(1) & (c). Periodic reports containing relevant information specified in 40 CFR 60.487a(c) shall be submitted to the Department. [Rule 62-204.800(8) F.A.C., and 40 CFR 60.486a]

X.21. Recordkeeping Requirements for All Equipment in VOC Service. Records shall be maintained for all equipment subject to 40 CFR 60.482-1a to 482-10a in accordance with the requirements of 40 CFR 63.181(b) & (d), as applicable. [Rule 62-204.800(11), F.A.C., and 40 CFR 63.181]

X.22. Components Not in VOC Service. Permittee shall maintain records specified in 40 CFR 60.486a(j) for any equipment considered not in VOC service. [62-204.800(8), F.A.C., and 40 CFR 60.486a]

X.23. Semiannual Reporting. Permittee shall submit reports on a semi-annual basis to the Department in accordance with the requirements of 40 CFR 63.182. [Rule 62-204.800(11), F.A.C., and 40 CFR 63.182]

X.24. Performance Test Reporting. Permittee shall report the results of all performance tests in accordance with 40 CFR 63.182(c). [Rule 62-204.800(11), F.A.C., and 40 CFR 63.182(c)]

Additional Recordkeeping and Reporting Requirements

X.25. Other Recordkeeping and Reporting Requirements. In addition to the recordkeeping and reporting requirements contained above, the permittee shall comply with the requirements of 40 CFR 60.485a(d), (e) & (f) and 60.486a(i) & (j) as follows:

a. Permittee shall test each piece of equipment unless it is demonstrated that a process unit is not in VOC service, i.e., that the VOC content would never be reasonably expected to exceed 10 percent by weight. For purposes of this demonstration, the following methods and procedures shall be used:

   (1) Procedures that conform to the general methods in ASTM E260–73, 91, or 96, E168–67, 77, or 92, E169–63, 77, or 93 (incorporated by reference—see 40 CFR 60.17) shall be used to determine the percent VOC content in the process fluid that is contained in or contacts a piece of equipment.

   (2) Organic compounds that are considered by the Administrator to have negligible photochemical reactivity may be excluded from the total quantity of organic compounds in determining the VOC content of the process fluid.

   (3) Engineering judgment may be used to estimate the VOC content, if a piece of equipment had not been shown previously to be in service. If the Administrator disagrees with the judgment, paragraphs (d)(1) & (2) of 40 CFR 60.486a shall be used to resolve the disagreement.

   [Rule 62-204.800(8), F.A.C.; 40 CFR 60.485a(d)(1), (2), and (3)]

b. Permittee shall demonstrate that a piece of equipment is in light liquid service by showing that all the following conditions apply:

   (1) The vapor pressure of one or more of the organic components is greater than 0.3 kPa at 20°C (1.2 in. H2O at 68°F). Standard reference texts or ASTM D2879–83, 96, or 97 (incorporated by reference—see 40 CFR 60.17) shall be used to determine the vapor pressures.

   (2) The total concentration of the pure organic components having a vapor pressure greater than 0.3 kPa at 20°C (1.2 in. H2O at 68°F) is equal to or greater than 20 percent by weight.

   (3) The fluid is a liquid at operating conditions.

   [Rule 62-204.800(8), F.A.C.; 40 CFR 60.485a(e)(1), (2), and (3)]

c. Samples used in conjunction with **Specific Conditions X.25a and X.25b Other Recordkeeping and Reporting Requirements** above (paragraphs (d) & (e) of 40 CFR 60.485a) shall be representative of the process fluid that is contained in or contacts the equipment or the gas being combusted in the flare. [Rule 62-204.800(8), F.A.C.; 40 CFR 60.485a(f)]

d. The following information shall be recorded in a log that is kept in a readily accessible location for use in determining exemptions as provided in 40 CFR 60.480a(d):

   (1) An analysis demonstrating the design capacity of the affected facility,

   (2) A statement listing the feed or raw materials and products from the affected facilities and an analysis demonstrating whether these chemicals are heavy liquids or beverage alcohol, and

(3) An analysis demonstrating that equipment is not in VOC service.

[Rule 62-204.800(8), F.A.C.; 40 CFR 60.486a(i) (1), (2), and (3)]

e. Information and data used to demonstrate that a piece of equipment is not in VOC service shall be recorded in a log that is kept in a readily accessible location available for Department inspection.

[Rules 62-4.070 and 62-204.800(8), F.A.C.; and 40 CFR 60.486a(j)]

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Subsection Y. Emission Unit 070

The specific conditions in this section apply to the following emissions unit:

EU No.	Brief Description
070	Higher Amines Plant Process Vents

At the Higher Amines Plant, alcohols, ammonia, ethers, aldehydes, ketones, and other amines are reacted to yield various diamylamines and amylamines. A natural gas-fired preheater is used to bring the mixture to reaction temperature. Process vents include Plant No. 2 Low Pressure Absorber Vent and Plant No. 2 High Pressure Absorber Vent. The ammonia column is sent to a high-pressure absorber. All other columns are sent to a low-pressure absorber. Vents from the high-pressure absorber and the low-pressure absorber are routed to the Amines Plants Flare (EU 005) or boilers (EU 001 and EU 003) for control. The process vents operate intermittently (open during startup, shutdown, and malfunction only). The 42" Column Jet Condensate vents to the atmosphere following a water scrub with 99% removal efficiency.

{Permitting Note: The Higher Amines Plant does not process, use, or generate any organic HAPs listed in section 112(b) of the Clean Air Act or hydrogen halide and halogen HAP; therefore, this plant is not subject to 40 CFR 63 Subpart FFFF. This plant does not manufacture as a primary product the chemicals listed in 40 CFR 63.100(b)(1)(i) or (ii); therefore, this plant is not subject to 40 CFR 63 Subpart G.}

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The specific conditions in this section apply to the following emissions unit:

EU No.	Brief Description
071	DIMLA MON Maintenance Wastewater

Maintenance wastewater from this emission unit is sent to the plant sewer system, which goes to the Wastewater Treatment Plant. The Operation and Maintenance Plan includes procedures for minimizing emissions to the air while clearing equipment for maintenance work. EUs for individual plant wastewater are for regulatory purposes only. Emissions from all wastewater have been included under EU 075, Wastewater Treatment Plant Fugitives.

{Permitting Note: This emissions unit is regulated by 40 CFR 63 Subpart FFFF - National Emission Standards for Hazardous Air Pollutants: Miscellaneous Organic Chemical Manufacturing (adopted and incorporated by reference in Rule 62-204.800(11)(b)63., F.A.C.).}

Essential Potential to Emit (PTE) Parameters

Z.1. Hours of Operation. This emissions unit is allowed to operate continuously, i.e., 8,760 hours/year. [Rule 62-210.200(PTE), F.A.C.]

Equipment Limitations and Standards

Z.2. Maintenance Procedures. For each maintenance wastewater stream containing organic HAP listed in Table 8 or Table 9 of 40 CFR Part 63 Subpart FFFF, the Permittee shall prepare a description of maintenance procedures for management of wastewaters generated from the emptying and purging of equipment in the process during temporary shutdowns for inspections, maintenance, and repair (i.e., a maintenance-turnaround) and during periods which are not shutdowns (i.e., routine maintenance). The descriptions shall:

a. Specify the process equipment or maintenance tasks that are anticipated to create wastewater during maintenance activities.
b. Specify the procedures to be followed to properly manage the wastewater and control organic HAP emissions to the atmosphere; and
c. Specify the procedures to be followed when clearing materials from process equipment.

[Rule 62-204.800(11), F.A.C; 40 CFR 63.105(b) referenced by 40 CFR 63.2485(a) & (b); and Permit No. 1130004-019-AC]

Test Methods and Procedures

Z.3. Maintenance Wastewater Procedures. Permittee shall modify and update the information required by **Specific Condition Z.2. Maintenance Procedures** of this subsection as needed following each maintenance procedure based on the actions taken and the wastewater generated. [Rule 62-204.800(11), F.A.C.; 40 CFR 63.105(c) referenced by 40 CFR 63.2485(a) & (b); and Permit No. 1130004-019-AC]

Recordkeeping and Reporting Requirements

Z.4. Startup, Shutdown and Malfunction Plan. For historical compliance purposes, a copy of the plan must be retained and available on-site for five years after August 12, 2023. [Rule 62-204.800(11), F.A.C.; 40 CFR 63.105(d) referenced by 40 CFR 63.2485(a) & (b); 40 CFR 63.2520€(4); and Permit No. 1130004-019-AC]

Z.5. Other Recordkeeping and Reporting Requirements. In the event that an affected unit does not meet an applicable standard, record the number of deviations. For each deviation record the date, time, and duration of each deviation. For each deviation from an applicable standard, record and retain a list of the affected sources or equipment, an estimate of the quantity of each regulated pollutant emitted over any emission limit and a description of the method used to estimate the emissions. Record actions taken to minimize emissions in accordance with 40 CFR 63.2450(u) and any corrective actions taken to return the affected unit to its normal or usual manner of operation. [Rule 62-204.800(11), F.A.C.; 40 CFR 63.105€ referenced by 40 CFR 63.2485; 40 CFR 63.2525(l)] Back to Table of Contents

Subsection AA. Emission Unit 071

The specific conditions in this section apply to the following emissions unit:

EU No.	Brief Description
072	DIMLA MON Wastewater

This emission unit is a Group 2 wastewater stream subject to MON. EUs for individual plant wastewater are for regulatory purposes only. Emissions from all wastewater have been included under EU 075, Wastewater Treatment Plant Fugitives.

{Permitting Notes: This emissions unit is regulated by 40 CFR 63 Subpart FFFF - National Emission Standards for Hazardous Air Pollutants: Miscellaneous Organic Chemical Manufacturing (adopted and incorporated by reference in Rule 62-204.800(11)(b)63., F.A.C.) and 40 CFR 63 Subpart G – National Emissions Standards for Organic Hazardous Air Pollutants from the Synthetic Organic Chemical Manufacturing Industry for Process Vents, Storage Vessels, Transfer Operations, and Wastewater (adopted and incorporated by reference in Rule 62-204.800(11)(b)2., F.A.C.).

Group 2 wastewater stream means any process wastewater stream that does not meet the definition of a Group 1 wastewater stream.

Group 1 wastewater stream means a wastewater stream consisting of process wastewater at an existing or new source that meets the criteria for Group 1 status in 40 CFR 63.2485(c) for compounds in Tables 8 and 9 to 40 CFR 63 Subpart FFFF and/or a wastewater stream consisting of process wastewater at a new source that meets the criteria for Group 1 status in 40 CFR 63.132(d) for compounds in Table 8 to 40 CFR 63 subpart G.*}*

Essential Potential to Emit (PTE) Parameters

AA.1. Hours of Operation. This emissions unit is allowed to operate continuously, i.e., 8,760 hours/year. [Rule 62-210.200(PTE), F.A.C.]

Equipment Limitations and Standards

AA.2. Group Status Determination. The Permittee shall comply with the requirements in 63.132 through 63.148 and the requirements referenced therein, except as specified in 63.2485. The compounds in table 8 and 9 to 40 CFR 63 Subpart FFFF apply. Permittee shall comply with the requirements in 40 CFR 63.132(a)(1) through (a)(3), except as specified in 63.2485(c), which requires that Permittee determine whether each wastewater stream is Group 1 or Group 2 stream. For Group 2 streams, Permittee shall comply with recordkeeping requirements of 40 CFR 63.147(b)(8)(i) through (iv).

a. A wastewater stream is a Group 1 wastewater stream for compounds in Tables 8 and 9 to 40 CFR 63 Subpart FFFF if:
   (1) The total annual average concentration of compounds in Table 8 is greater than or equal to 10,000 parts per million by weight at any flow rate, and the total annual load of compounds in Table 8 to 40 CFR 63 Subpart FFFF is greater than or equal to 200 lb/yr; or
   (2) The total annual average concentration of compounds in Table 8 is greater than or equal to 1,000 parts per million by weight and the annual average flow rate is greater than or equal to 1 liter per minute.
   (3) The combined total annual average concentration of compounds in Tables 8 and 9 is greater than or equal to 30,000 part per million by weight, and the combined total annual load of compounds in Tables 8 and 9 to 40 CFR 63 Subpart FFFF is greater than or equal to 1 ton per year.
b. A wastewater stream is a Group 2 wastewater stream if the process wastewater stream does not meet the definition of a Group 1 wastewater stream.
c. Re-determine group status for each Group 2 stream, as necessary, to determine whether the stream is Group 1 or Group 2 whenever process changes are made that could reasonably be expected to change the stream to a Group 1 stream.

[Rule 62-204.800(11), F.A.C., 40 CFR 63.2485]

{Permitting Note: Examples of process changes include, but are not limited to, changes in production capacity, production rate, feedstock type, or catalyst type, or whenever there is replacement, removal, or addition of recovery equipment. Process changes do not include: process upsets; unintentional, temporary process changes; and changes that are within the range on which the original TRE calculation was based.}

Recordkeeping and Reporting Requirements

AA.3. Reporting Schedule. The following reports and notifications shall be submitted to the Compliance Authority:

Report	Reporting Deadline	Related Condition(s)
Periodic/Semiannual Compliance Reports	Semi-Annual	**AA.7.**
Other Reporting Requirements	As required by Administrator	**AA.8.**
Notifications	As required by Administrator	**AA.5.**

[Rule 62-213.440(1)(b), F.A.C.]

AA.4. Other Reporting Requirements. See Appendix RR, Facility-Wide Reporting Requirements, for additional reporting requirements. [Rule 62-213.440(1)(b), F.A.C.]

AA.5. Notification of Compliance Status - Reporting. Permittee shall submit the information specified in 40 CFR 63.146(b)(1) through (b)(9) as part of the Notification of Compliance Status required by 40 CFR 63.152(b). [Rules 62-204.800(11), F.A.C.; 40 CFR 63.146(b), 40 CFR 63.152(b), 40 CFR 63.2520(d), 40 CFR 63.1039(b) referenced by 40 CFR 63.2520(d), and 40 CFR 63.2485]

AA.6. Notification of Compliance Status – Recordkeeping. Permittee shall maintain records of all Group 1/Group 2 determinations, and the Notification of Compliance Status available for Department inspection. If Permittee uses process knowledge to determine the annual average concentration of a wastewater stream as specified in 40 CFR 63.144(b)(3) and/or uses process knowledge to determine the annual average flow rate as specified in 40 CFR 63.144(c)(1), and determines that the wastewater stream is not a Group 1 wastewater stream, Permittee shall keep in a readily accessible location the documentation of how process knowledge was used to determine the annual average concentration and/or the annual average flow rate of the wastewater stream. [Rule 62-204.800(11), F.A.C.; 40 CFR 63.152(f) and 40 CFR 63.2485]

AA.7. Periodic/Semiannual Compliance Reports. Periodic compliance reports required by 40 CFR 63.2520(d) shall be submitted semiannually according to the schedule specified in 40 CFR 63.2520(b) as follows:

a. Each subsequent compliance report must cover the semiannual reporting period from January 1 through June 30 or the semiannual reporting period from July 1 through December 31.
b. Each subsequent compliance report must be postmarked or delivered no later than August 31 or February 28, whichever date is the first date following the end of the semiannual reporting period.

[Rule 62-204.800(11), F.A.C.; 40 CFR 63.2520(b) & (e)]

AA.8. Other Recordkeeping and Reporting Requirements. In the event that an affected unit does not meet an applicable standard, record the number of deviations. For each deviation record the date, time, and duration of each deviation. For each deviation from an applicable standard, record and retain a list of the affected sources or equipment, an estimate of the quantity of each regulated pollutant emitted over any emission limit and a description of the method used to estimate the emissions. Record actions taken to minimize emissions in accordance with 40 CFR 63.2450(u) and any corrective actions taken to return the affected unit to its normal or usual manner of operation. [Rule 62-204.800(11), F.A.C.; 40 CFR 63.105(e) referenced by 40 CFR 63.2485; 40 CFR 63.2525(l)]

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Subsection BB. Emission Unit 077

The specific conditions in this section apply to the following emissions unit:

EU No.	Brief Description
077	DIMLA MON Equipment Leaks

This emissions unit consists of fugitive emissions from fugitive equipment leaks from pumps, compressors, agitators, pressure relief devices, sampling connection systems, open-ended valves or lines, valves, connectors and instrumentation systems associated with the DIMLA process in organic HAP service greater than 300 hours per year; and any control devices or systems used to comply with control standards under 40 CFR 63.2480 and located within the unit boundaries of the DIMLA process.

EUs for equipment leaks are for regulatory purposes only and emissions are reported under EU 062, Facility-wide Equipment Leak Fugitives.

{Permitting Note: This emissions unit is regulated by 40 CFR 63, Subpart FFFF - National Emission Standards for Hazardous Air Pollutants: Miscellaneous Organic Chemical Manufacturing (adopted and incorporated by reference in Rule 62-204.800(11)(b)63., F.A.C.).}

Essential Potential to Emit (PTE) Parameters

BB.1. Hours of Operation. This emissions unit is allowed to operate continuously, i.e., 8,760 hour/year. [Rule 62-210.200(PTE), F.A.C.]

Equipment Limitations and Standards

BB.2. Equipment Identification. Equipment contained within this emissions unit shall be identified as specified in 40 CFR 63.1022, Equipment Identification Standards, referenced by 40 CFR 63.2480. [Rule 62-204.800(11), F.A.C.; and 40 CFR 63.1022 referenced by 40 CFR 63.2480]

BB.3. Standards for Equipment Leak Detection. The permittee shall comply with the following equipment leak standards as applicable:

a. Standards for Valves in gas and vapor service and in light liquid service. [Rule 62-204.800(11), F.A.C.; 40 CFR 63.1025 referenced by 40 CFR 63.2480]

b. Standards for Pumps in light liquid service. [Rule 62-204.800(11), F.A.C.; 40 CFR 63.1026 and 63.1035 referenced by 40 CFR 63.2480]

c. Standards for Connectors in gas and vapor service and in light liquid service. [Rule 62-204.800(11), F.A.C.; 40 CFR 63.1027 referenced by 40 CFR 63.2480]

d. Standards for Agitators in gas and vapor service and in light liquid service. [Rule 62-204.800(11), F.A.C.; 40 CFR 63.1028 referenced by 40 CFR 63.2480]

e. Standards for Pumps, Valves, Connectors, and Agitators in heavy liquid service; pressure relief devices in liquid service; and instrumentation systems. [Rule 62-204.800(11), F.A.C.; 40 CFR 63.1029 and 63.1035 referenced by 40 CFR 63.2480]

f. Standards for Pressure relief devices in gas and vapor service. [Rule 62-204.800(11), F.A.C.; 40 CFR 63.1030 referenced by 40 CFR 63.2480]

g. Standard for Compressors standards. [Rule 62-204.800(11), F.A.C.; 40 CFR 63.1031 referenced by 40 CFR 63.2480]

h. Standards for Sampling connection systems. [Rule 62-204.800(11), F.A.C.; 40 CFR 63.1032 referenced by 40 CFR 63.2480]

i. Open-ended valves or lines standards. [Rule 62-204.800(11), F.A.C.; 40 CFR 63.1033 referenced by 40 CFR 63.2480]

j. Closed vent systems and control devices; or emissions routed to a fuel gas system or process standards. [Rule 62-204.800(11), F.A.C.; 40 CFR 63.1034 referenced by 40 CFR 63.2480]

BB.4. Leak Repair. When a leak is detected, the leaking component shall be identified and repaired as soon as possible, but not later than allowed under the standard. [Rule 62-204.800(11), F.A.C.; 40 CFR 63.1024 referenced by 40 CFR 63.2480]

Compliance Methods and Procedures

BB.5. Compliance Tests. Compliance tests shall be conducted using instruments or sensory methods as specified in the standards for instrument and sensory monitoring for leaks specified in 40 CFR 63.1023. [Rule 62-204.800(11), F.A.C.; 40 CFR 63.1023 referenced by 40 CFR 63.2480]

BB.6. Test Methods. Required tests shall be performed in accordance with the following reference methods.

Method	Description of Method and Comments
21	Determination of Volatile Organic Compound Leaks
Sensory	Determination of Volatile Organic Compound Leaks

Monitoring shall comply with Method 21 of 40 CFR part 60, Appendix A, as specified by, and, except as otherwise provided in 40 CFR 63.1023. The above methods are described in 40 CFR 60, Appendix A, and adopted by reference in Rule 62-204.800, F.A.C. No other methods may be used unless prior written approval is received from the Department. [Rule 62-204.800, F.A.C.]

Monitoring of Operations

BB.7. Equipment to be Monitored. The permittee shall monitor the equipment comprising this emissions unit routinely as follows:

a. Valves in gas and vapor service and in light liquid service. [Rule 62-204.800(11), F.A.C.; 40 CFR 63.1025(b) and (c) referenced by 40 CFR 63.2480]

b. Pumps in light liquid service. [Rule 62-204.800(11), F.A.C.; 40 CFR 63.1026(b)-(e) referenced by 40 CFR 63.2480]

c. Connectors in gas and vapor service and in light liquid service. [Rule 62-204.800(11), F.A.C.; 40 CFR 63.1027(b) and (c) referenced by 40 CFR 63.2480]

d. Agitators in gas and vapor service and in light liquid service. [Rule 62-204.800(11), F.A.C.; 40 CFR 63.1028(c) referenced by 40 CFR 63.2480]

e. Pumps, valves, connectors, and agitators in heavy liquid service; pressure relief devices in liquid service; and instrumentation systems. [Rule 62-204.800(11), F.A.C.; 40 CFR 63.1029(b) and (c) referenced by 40 CFR 63.2480]

f. Pressure relief devices in gas and vapor service standards. [Rule 62-204.800(11), F.A.C.; 40 CFR 63.1030(b) referenced by 40 CFR 63.2480]

g. Compressors. [Rule 62-204.800(11), F.A.C.; 40 CFR 63.1031(f) referenced by 40 CFR 63.2480]

Recordkeeping and Reporting Requirements

BB.8. Reporting Schedule. The following reports and notifications shall be submitted to the Compliance Authority:

Report	Reporting Deadline	Related Condition(s)
Periodic/Semiannual Compliance Reports	Semi-Annual	**BB.10. and BB.11.**

[Rule 62-213.440(1)(b), F.A.C.]

BB.9. Other Reporting Requirements. See Appendix RR, Facility-Wide Reporting Requirements, for additional reporting requirements. [Rule 62-213.440(1)(b), F.A.C.]

BB.10. Reporting Requirements. For the equipment specified in **Specific Condition BB.7. Equipment to be Monitored**, the permittee shall report in a summary format by equipment type, the number of components for which leaks were detected and for valves, pumps and connectors show the percent leakers, and the total number of components monitored. Also include the number of leaking components that were not repaired as required by 40 CFR 63.1024, and for valves and connectors, identify the number of components that are determined by 40 CFR 63.1025(c)(3) to be nonrepairable. [Rule 62-204.800(11), F.A.C.; 40 CFR 63.1039(b) referenced by 40 CFR 63.2480]

BB.11. Periodic/Semiannual Compliance Reports. Periodic compliance reports required by 40 CFR 63.2520(d) shall be submitted semiannually according to the schedule specified in 40 CFR 63.2520(b) as follows:

a. Each subsequent compliance report must cover the semiannual reporting period from January 1 through June 30 or the semiannual reporting period from July 1 through December 31.

b. Each subsequent compliance report must be postmarked or delivered no later than August 31 or February 28, whichever date is the first date following the end of the semiannual reporting period.

[Rule 62-204.800(11), F.A.C.; 40 CFR 63.2520(b) & (e)]

BB.12. Operational Records. The permittee shall maintain the following operational records:

a. Equipment identification and documentation of unsafe-to-monitor or repair and special equipment designations. [Rule 62-204.800(11), F.A.C.; 40 CFR 63.1022, 63.1023(e) and 63.1038(b) referenced by 40 CFR 63.2480]

b. Leak Monitoring Records. [Rule 62-204.800(11), F.A.C.; 40 CFR 63.1024(d), (f); 63.1038(c) referenced by 40 CFR 63.2480]

c. Valves Subject to Subgrouping (If applicable). [Rule 62-204.800(11), F.A.C.; 40 CFR 63.1025(b)(4)(iv) referenced by 40 CFR 63.2480]

d. Dual mechanical seal design criteria for exempt pumps (If applicable). [Rule 62-204.800(11), F.A.C.; 40 CFR 63.1026(e)(1)(i) referenced by 40 CFR 63.2480]

e. Monitoring Periods for Connectors. [Rule 62-204.800(11), F.A.C.; 40 CFR 63.1027(b)(3)(v) referenced by 40 CFR 63.2480]

f. Dual mechanical seal design criteria for exempt agitators (If applicable). [Rule 62-204.800(11), F.A.C.; 40 CFR 63.1028(e)(1)(vi)(B) referenced by 40 CFR 63.2480]

g. Pressure Relief Device Demands. [Rule 62-204.800(11), F.A.C.; 40 CFR 63.1030(c)(3) referenced by 40 CFR 63.2480]

h. Compressor seal design criteria (If applicable). [Rule 62-204.800(11), F.A.C.; 40 CFR 63.1031(d)(2) referenced by 40 CFR 63.2480]

i. Pumps Subject to a Quality Improvement Program (If applicable). [Rule 62-204.800(11), F.A.C.; 40 CFR 63.1035(d)(2), (6)(iii), 6(iv), (7) & (e)(1)-(6) referenced by 40 CFR 63.2480]

j. Alternative Means of Compliance (If applicable). [Rule 62-204.800(11), F.A.C.; 40 CFR 63.1036(d) referenced by 40 CFR 63.2480]

k. General Recordkeeping Requirements. [Rule 62-204.800(11), F.A.C.; 40 CFR 63.1038 referenced by 40 CFR 63.2480]

[Rule 62-4.070(3), F.A.C.] Back to Table of Contents

The specific conditions in this section apply to the following emissions unit:

EU No.	Brief Description
078	DIMLA VOC Equipment Leaks

DIMLA VOC Equipment Leaks comprise fugitive emissions from pumps, compressors, agitators, pressure relief devices, sampling connection systems, open-ended valves or lines, valves and connectors in VOC service but not also in HAP service (which are regulated as EU 077) and located within the unit boundaries of the DIMLA process.

EUs for equipment leaks are for regulatory purposes only and emissions are reported under EU 062, Facility-wide Equipment Leak Fugitives.

{Permitting Note: This emissions unit is regulated under 40 CFR 60 Subpart VVa - Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry for Which Construction, Reconstruction, or Modification Commenced After November 7, 2006 (adopted and incorporated by reference in Rule 62-204.800(8)(b)55., F.A.C.).}

Essential Potential to Emit (PTE) Parameters

CC.1. Hours of Operation. This emissions unit is allowed to operate continuously, i.e., 8,760 hour/year. [Rule 62-210.200(PTE), F.A.C.]

Equipment Limitations and Standards

CC.2. Equipment Identification. Equipment shall be identified as either subject to monitoring or exempt from monitoring. [Rule 62-204.800(8), F.A.C.; 40 CFR 60.486a(e)(1)-(6) & (f), (i) & (j)]

CC.3. Emission Standards. The permittee shall comply with the following emission standards, as applicable:

a. Standards for Pumps in light liquid service. [Rule 62-204.800(8), F.A.C.; 40 CFR 60.482-2a]

b. Standards for Compressors. [Rule 62-204.800(8), F.A.C.; 40 CFR 60.482-3a]

c. Standards for Pressure relief devices in gas/vapor service. [Rule 62-204.800(8), F.A.C.; 40 CFR 60.482-4a]

d. Standards for Sampling connection systems. [Rule 62-204.800(8), F.A.C.; 40 CFR 60.482-5a]

e. Standards for Open-ended valves or lines. [Rule 62-204.800(8), F.A.C.; 40 CFR 60.482-6a]

f. Standards for Valves in gas/vapor service and in light liquid service. [Rule 62-204.800(8), F.A.C.; 40 CFR 60.482-7a]

g. Standards for Pumps, valves, and connectors in heavy liquid service and pressure relief devices in light liquid or heavy liquid service. [Rule 62-204.800(8), F.A.C.; 40 CFR 60.482-8a]

h. Standards for Delay of repair. [Rule 62-204.800(8), F.A.C.; 40 CFR 60.482-9a]

i. Standards for Closed vent systems and control devices. [Rule 62-204.800(8), F.A.C.; 40 CFR 60.482-10a]

j. Standards for Connectors in gas/vapor service and in light liquid service. [Rule 62-204.800(8), F.A.C.; 40 CFR 60.482-11a (Currently stayed at 73 FR 31376)]

When a leak is detected, it shall be flagged in the field and recorded in a log which shall be kept for two years in a readily accessible location. [Rule 62-204.800(8), F.A.C.; 40 CFR 60.486a(b) and (c)]

Compliance Methods and Procedures

CC.4. Test Methods. Required tests shall be performed in accordance with the following reference methods.

Method	Description of Method and Comments
21	Determination of Volatile Organic Compound Leaks

Monitoring shall comply with Method 21 of 40 CFR part 60, Appendix A, except as otherwise provided in 40 CFR 60.485a. The above method is described in Appendix A of 40 CFR 60 and adopted by reference in Rule 62-204.800, F.A.C. No other methods may be used unless prior written approval is received from the Department. [Rule 62-204.800, F.A.C.]

Monitoring of Operations

CC.5. Leak Monitoring. Except where equipment has been designated exempt from monitoring under **Specific Condition CC.2 Equipment Identification.**, the permittee shall comply with the routine monitoring requirements in the following standards:

a. Standards for Pumps in light liquid service. [Rule 62-204.800(8), F.A.C.; 40 CFR 60.482-2a(a), (b)(2)]

b. Standards for Compressors. [Rule 62-204.800(8), F.A.C.; 40 CFR 60.482-3a(e)(1)]

c. Standards for Pressure relief devices in gas/vapor service. [Rule 62-204.800(8), F.A.C.; 40 CFR 60.482-4a(b)]

d. Standards for Valves in gas/vapor service and in light liquid service. [Rule 62-204.800(8), F.A.C.; 40 CFR 60.482-7a(a) & (c)]

e. Standards for Connectors in gas/vapor service and in light liquid service. [Rule 62-204.800(8), F.A.C.; 40 CFR 60.482-11a(a) & (b)(3) (Currently stayed)]

[Rule 62-4.070(3), F.A.C. and Rule 62-204.800(8), F.A.C.; 40 CFR 60.482-2a, 3a, 4a, 7a and 11a]

Recordkeeping and Reporting Requirements

CC.6. Reporting Schedule. The following reports and notifications shall be submitted to the Compliance Authority:

Report	Reporting Deadline	Related Condition(s)
Semiannual Equipment Leak Reports	Semi-Annual	**CC.8.**

[Rule 62-213.440(1)(b), F.A.C.]

CC.7. Other Reporting Requirements. See Appendix RR, Facility-Wide Reporting Requirements, for additional reporting requirements. [Rule 62-213.440(1)(b), F.A.C.]

CC.8. Equipment Leak Reports. The permittee shall submit the following reports:

a. Semiannual Equipment Leak Reports required by 40 CFR 60.487(a). [Rule 62-204.800(8), F.A.C.; 40 CFR 60.487a(a)-(c)]

b. Notification of compliance with alternative standards, if applicable. [Rule 62-204.800(8), F.A.C.; 40 CFR 60.487a(d)]

c. Performance test reports required by 40 CFR 60.487(e), if applicable. [Rule 62-204.800(8), F.A.C.; 40 CFR 60.487a(e)]

CC.9. Operational Records. The following records shall be kept to demonstrate compliance with the leak detection and repair standards.

a. For each monitoring event the following information shall be recorded: (1) monitoring instrument identification, (2) operator identification, (3) equipment identification, (4) date of monitoring, and (5) instrument reading. Rule 62-204.800(8), F.A.C.; [40 CFR 60.486a(a)(3)]

b. When each leak is detected, the following information shall be recorded in a log and shall be kept for two years in a readily accessible location:

(1) The instrument and operator identification numbers and the equipment identification number, except when indications of liquids dripping from a pump are designated as a leak,

(2) The date the leak was detected and the dates of each attempt to repair the leak,

(3) Repair methods applied in each attempt to repair the leak,

(4) Maximum instrument reading measured by Method 21 of Appendix A to 40 CFR part 60 at the time the leak is successfully repaired or determined to be no repairable (except when a pump is repaired by eliminating indications of liquids dripping),

(5) "Repair delayed" and the reason for the delay if a leak is not repaired within 15 calendar days after discovery,

(6) The signature of Permittee (or designee) whose decision it was that repair could not be effected without a process shutdown,

(7) The expected date of successful repair of the leak if a leak is not repaired within 15 days,

(8) Dates of process unit shutdowns that occur while the equipment is unrepaired,

(9) The date of successful repair of the leak.

[Rule 62-204.800(8), F.A.C.; 40 CFR 60.486a(b)]

c. If applicable, information pertaining to the design of closed vent systems and control devices used to control equipment leaks. [Rule 62-204.800(8), F.A.C.; 40 CFR 60.486a(d)]

d. Documentation for each compliance test performed to designate equipment operating with no detectable emissions in 40 CFR 60.482-2a(e), 60.482-3a(i), 60.482-4a, and 60.482-7a(f). [Rule 62-204.800(8), F.A.C.; 40 CFR 60.486a(e)(4)]

e. The date and results of the weekly visual inspection for indications of liquids dripping from pumps in light liquid service. [Rule 62-204.800(8), F.A.C.; 40 CFR 60.486a(e)(7)]

f. Calibration records for monitoring instruments. [Rule 62-204.800(8), F.A.C.; 40 CFR 60.486a(e)(8)]

g. The connector monitoring schedule (if applicable). [Rule 62-204.800(8), F.A.C.; 40 CFR 60.486a(e)(9)]

h. Records of each release from a pressure relief device subject to monitoring. [Rule 62-204.800(8), F.A.C.; 40CFR 60.486a(e)(10)]

i. Documentation required for compliance with the alternative monitoring frequency for valves described in 40 CFR 60.483-2a, if applicable. [Rule 62-204.800(8), F.A.C.; 40 CFR 60.486a(g)]

j. Design criteria for pump or compressor seal systems equipped with leak detectors as described in 40 CFR 60.482-2a(d)(5) and/or 60.482-3a(e)(2), if applicable. [Rule 62-204.800(8), F.A.C.; 40 CFR 60.486a(h)]

[Rule 62-4.070(3), F.A.C.]

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The specific conditions in this section apply to the following emissions unit:

EU No.	Brief Description
079	DIMLA Scrubber

The DIMLA scrubber, T-62028, recovers methanol (which is a HAP) and methylamines from the DIMLA Purification Tower overhead vacuum system. The recovered amines are fed to the MA Plant No. 4 via the DIMLA Absorption and Desorption Columns with the methanol going through tank TK-62099 to the wastewater treatment system.

{Permitting Note: This emissions unit is regulated by 40 CFR 63 Subpart FFFF - National Emission Standards for Hazardous Air Pollutants: Miscellaneous Organic Chemical Manufacturing (adopted and incorporated by reference in Rule 62-204.800(11)(b)63., F.A.C.). Compliance with 40 CFR 63 Subpart FFFF constitutes compliance with 40 CFR 60 Subpart NNN.*}*

Essential Potential to Emit (PTE) Parameters

DD.1. Methods of Operation. The DIMLA Scrubber shall be operated with a minimum water flow of 1 gpm, based on a 24-hr block average (midnight to midnight) at all times when emissions are vented to it, excluding periods of non-operation of the source. [Rules 62-210.200(PTE), 62-4.070(3), F.A.C.; Permit No. 1130004-019-AC, and Permit No. 1130004-026-AC]

DD.2. Hours of Operation. This emissions unit is allowed to operate continuously, i.e., 8,760 hour/year. [Rule 62-210.200(PTE), F.A.C.]

Monitoring of Operations

DD.3. Bypass monitoring. Except for equipment needed for safety purposes such as pressure relief devices, low leg drains, high point bleeds, analyzer vents, and open-ended valves or lines, Permittee shall comply with one of the following for each closed vent system that contains bypass lines that could divert a vent stream to the atmosphere:

a. Properly install, maintain, and operate a flow indicator that is capable of taking readings at least once every 15 minutes. The flow indicator shall be installed at the entrance to any bypass line.

b. Secure the bypass line valve in the non-diverting position with a car-seal or a lock-and-key type configuration and visually inspect the seal or closure mechanism at least monthly to verify that the valve is maintained in the non-diverting position, and the vent stream is not diverted through the bypass line.

[Rule 62-204.800(11), F.A.C., and 40 CFR 63.983(a)(3)(i) & (ii)]

DD.4. Process Monitoring. The permittee shall install a flow meter capable of providing a continuous record (block average values recorded at least every 15 minutes) of the absorber influent water flow. For absorbers that control organic compounds and use water as the scrubbing fluid, the permittee must conduct monitoring and recordkeeping as specified in 40 CFR 63.2450(k)(5). [Rule 62-204.800(11), F.A.C. and 40 CFR 63.2450(k)(5)]

Recordkeeping and Reporting Requirements

DD.5. Reporting Schedule. The following reports and notifications shall be submitted to the Compliance Authority:

Report	Reporting Deadline	Related Condition(s)
Periodic/Semiannual Report	Semi-Annual	**DD.9.**

[Rule 62-213.440(1)(b), F.A.C.]

DD.6. Other Reporting Requirements. See Appendix RR, Facility-Wide Reporting Requirements, for additional reporting requirements. [Rule 62-213.440(1)(b), F.A.C.]

DD.7. Bypass Monitoring Records. The permittee shall maintain the records specified in 40 CFR 63.998(d)(1)(ii)(A) or (B), as appropriate to document that the DIMLA scrubber is not bypassed.

a. Hourly records of whether the flow indicator specified under 40 CFR 63.983(a)(3)(i) was operating and whether a diversion was detected at any time during the hour, as well as records of the times of all periods when the vent stream is diverted from the control device or the flow indicator is not operating. [63.998(d)(1)(ii)(A)]

b. Where a seal mechanism is used to comply with 40 CFR 63.983(a)(3)(ii), hourly records of flow are not required. In such cases, Permittee shall record that the monthly visual inspection of the seals or closure mechanisms has been done and shall record the occurrence of all periods when the seal mechanism is broken, the bypass line valve position has changed, or the key for a lock-and-key type lock has been checked out, and records of any car-seal that has been broken. [63.998(d)(1)(ii)(B)]

[Rule 62-204.800(11), F.A.C.; 40 CFR 63.983(a)(3) and 63.998(d)(1)(ii)(A) & (B)]

DD.8. Leak Repair Records. The permittee shall maintain leak detection and repair records for the piping connecting the DIMLA Purification Tower overhead vacuum system discharge to the DIMLA Scrubber as specified in 40 CFR 63.998(d)(1)(iii)(A)-(F). These records shall be maintained for five years.

a. The instrument and the equipment identification number and the operator name, initials, or identification number.
b. The date the leak was detected and the date of the first attempt to repair the leak.
c. The date of successful repair of the leak.
d. The maximum instrument reading measured by the procedures in 40 CFR 63.983(c) after the leak is successfully repaired or determined to be nonrepairable.
e. "Repair delayed" and the reason for the delay if a leak is not repaired within 15 days after discovery of the leak. Permittee may develop a written procedure that identifies the conditions that justify a delay of repair. In such cases, reasons for delay of repair may be documented by citing the relevant sections of the written procedure.
f. Copies of the Periodic Reports as specified in 40 CFR 63.999(c), if records are not maintained on a computerized database capable of generating summary reports from the records.

[Rule 62-204.800(11), F.A.C.; 40 CFR 63.983(a)(3) and 63.998(d)(1)(iii)(A)-(F)]

DD.9. Periodic/Semiannual Report. Information required by 40 CFR 63.999(c)(2) pertaining to the monitoring of closed vent systems shall be included in the Periodic Report.

a. The information recorded in 40 CFR 63.998(d)(1)(iii)(B) through (E) (**Specific Condition DD.8. Leak Repair Records**).
b. Reports of the times of all periods recorded under 40 CFR 63.998(d)(1)(ii)(A) **(Specific Condition DD.7.a. Bypass Monitoring Records)** when the vent stream is diverted from the control device through a bypass line; and
c. Reports of all times recorded under 40 CFR 63.998(d)(1)(ii)(B) **(Specific Condition DD.7.b. Bypass Monitoring Records)** when maintenance is performed in car-sealed valves, when the seal is broken, when the bypass line valve position is changed, or the key for a lock-and-key type configuration has been checked out.

[Rule 62-204.800(11), F.A.C.; 40 CFR 63.982(c); 40 CFR 63.999(c)(2)(i)-(iii); and Permit 1130004-019-AC]

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Subsection EE. Emission Unit 080

The specific conditions in this section apply to the following emissions unit:

EU No.	Brief Description
080	Existing Emergency Reciprocating Internal Combustion Engines (RICE) (Before 2006)

This emission unit consists of four stationary, emergency, diesel fueled, compression ignition, reciprocating internal combustion engines (CI RICE). These stationary RICE each have a rating of less than 500 brake hp; they are located at a major source of hazardous air pollutants (HAP) emissions and were constructed before June 12, 2006. Therefore, in accordance with 40 CFR 63.6590(a)(1)(ii) they are existing emergency stationary CI RICE and must comply with the emission limitations in Table 2c to 40 CFR 63 Subpart ZZZZ which apply to Emergency Stationary CI RICE. The following table provides important details for this emissions unit.

Equip. I.D.	Area/Location	Existing or New	Construction Commenced Date	Brake hp	Fuel Type
PG24101C	B-Area well water pump	Existing	04/19/1994	234	Diesel
PG24101B	No. 2 well water pump	Existing	04/06/1994	234	Diesel
D24018	Plant emergency generator	Existing	06/07/1991	330	Diesel
PG24121	South Foxtrot fire water pump	Existing	04/15/1994	340	Diesel

{Permitting Note: This emissions unit is regulated by 40 CFR 63 Subpart ZZZZ – National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (adopted and incorporated by reference in Rule 62-204.800(11)(b)82., F.A.C.).}

Essential Potential to Emit (PTE) Parameters

EE.1. Hours of Operation. Emergency stationary RICE may be operated for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by Federal, State or local government, the manufacturer, the vendor, or the insurance company associated with the engine. Maintenance checks and readiness testing of such units is limited to 100 hours per year. There is no time limit on the use of emergency stationary RICE in emergency situations. Permittee may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if Permittee maintains records indicating that Federal, State, or local standards require maintenance and testing of emergency RICE beyond 100 hours per year. Emergency stationary RICE may operate up to 50 hours per year in non-emergency situations, but those 50 hours are counted towards the 100 hours per year provided for maintenance and testing. The 50 hours per year for non- emergency situations cannot be used for peak shaving or to generate income for a facility to supply power to an electric grid or otherwise supply power as part of a financial arrangement with another entity. For owners and operators of emergency engines, any operation other than emergency operation, maintenance and testing, and operation in non-emergency situations for 50 hours per year, as permitted in 40 CFR 63.6640, is prohibited. [Rules 62-210.200(PTE), 62-204.800(11), F.A.C.; and 40 CFR 63.6640(f)]

Emission Limitations and Standards

EE.2. Work or Management Practice Standards. Permittee of an existing stationary CI RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions must comply with the applicable emission limitations and operating limitations in Table 2c to 40 CFR 63 Subpart ZZZZ which apply to Emergency Stationary CI RICE.

a. The Permittee must meet the following requirements, except during periods of startup:

(1) Change oil and filter every 500 hours of operation or annually, whichever comes first;

(2) Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first, and replace as necessary; and;

(3) Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.

b. During periods of startup you must minimize the engine's time spent at idle and minimize the engine's startup time at startup to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the non-startup emission limitations apply.

[Rule 62-204.800(11), F.A.C.; 40 CFR63.6602 and Table 2c to 40 CFR63 Subpart ZZZZ]

EE.3. Monitoring of Operations. The Permittee must comply with the following monitoring, installation, collection, operation, and maintenance requirements:

a. The Permittee must operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission-related written instructions or develop your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions. [Rule 62-204.800(11), F.A.C.; and 40 CFR 63.6625(e)]

b. The Permittee must install a non-resettable hour meter if one is not already installed. [Rule 62-204.800(11), F.A.C.; and 40 CFR 63.6625(f)]

c. The Permittee must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the emission standards applicable to all times other than startup in Tables 1a, 2a, 2c, and 2d to 40 CFR63 Subpart ZZZZ apply. [Rule 62-204.800(11), F.A.C.; and 40 CFR 63.6625(h)]

d. You have the option of utilizing an oil analysis program in order to extend the specified oil change requirement in Tables 2c and 2d to 40 CFR63 Subpart ZZZZ. The oil analysis must be performed at the same frequency specified for changing the oil in Table 2c or 2d to 40 CFR63 Subpart ZZZZ. The analysis program must at a minimum analyze the following three parameters: Total Base Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Base Number is less than 30 percent of the Total Base Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the engine owner or operator is not required to change the oil. If any of the limits are exceeded, the engine owner or operator must change the oil within 2 days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the engine owner or operator must change the oil within 2 days or before commencing operation, whichever is later. Permittee must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine. [Rule 62-204.800(11), F.A.C.; and 40 CFR 63.6625(i)]

Recordkeeping and Reporting Requirements

EE.4. Maintenance Records. The Permittee must keep records of the maintenance conducted on the existing stationary emergency RICE in order to demonstrate that you operated and maintained the stationary RICE and after-treatment control device (if any) according to your own maintenance plan. [Rule 62-204.800(11), F.A.C.; and 40 CFR 63.6655(e) & (f)]

Applicable Federal Regulations

EE.5. NESHAP Subpart ZZZZ. The existing emergency stationary CI RICE are subject to applicable requirements in NESHAP 40 CFR 63 Subpart ZZZZ and must comply with the emission limitations in Table 2c to 40 CFR 63 Subpart ZZZZ which apply to Emergency Stationary CI RICE. [Rule 62-204.800(11), F.A.C.; and 40 CFR 63.6585, 63.6590(a)(1)(ii) and 63.6602] Back to Table of Contents

The specific conditions in this section apply to the following emissions unit:

EU No.	Brief Description
081	New Emergency Reciprocating Internal Combustion Engine (Fire Pump) (After 2007)

This emission unit consists of one "new" stationary, emergency, 268 bhp, diesel-fueled, manufacturer-certified, compression ignition, CI RICE, manufactured after 2007, with a displacement of less than 30 liters per cylinder.

Equip. I.D.	Area/Location	Existing or New	Construction Commenced Date	Brake hp	Fuel Type
PG24114	Main fire water pump	New	06/2016	268	Diesel

{Permitting Note: This new CI RICE is regulated by 40 CFR 60, Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines (adopted and incorporated by reference in Rule 62-204.800(8)(b)82., F.A.C.). The fire pump engine is a "new" stationary emergency CI RICE with a displacement of less than 30 liters per cylinder, located at a major source of HAP, commenced construction on or after 6/12/2006, and has a post-2007 model year.}

PERFORMANCE RESTRICTIONS

FF.1. Hours of Operation. The stationary compression ignition reciprocating internal combustion engine (emergency ire pump) is allowed to operate in accordance with the definition of emergency stationary internal combustion engines in 40 CFR 60.4219. The engine may be operated 100 hours per year for maintenance and testing, and up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing. There is no time limit on the use of emergency stationary RICE in emergency situations. Records of hours of operation for this stationary RICE shall be maintained and available for Department inspection. [Rules 62-4.070(3) 62.210.200(PTE), and 62-204.800(8), F.A.C.; and 40 CFR 60.4211(f)]

FF.2. Fuel requirements for stationary CI RICE subject to 40 CFR 60, Subpart IIII. Owners and operators of stationary CI RICE subject to 40 CFR 60, Subpart IIII with a displacement of less than 30 liters per cylinder that use diesel fuel must use diesel fuel that has a maximum sulfur content of 15 ppm, a cetane index of 40 and a maximum aromatic content of 35 volume percent. [Rule 62-204.800(8), F.A.C., 40 CFR 80.510(b) and 40 CFR 60.4207(b)]

EMISSION STANDARDS

FF.3. Emission Limits. Owners and operators of fire pump engines with a displacement of less than 30 liters per cylinder must comply with the emission standards in table 4 to 40 CFR 60, Subpart IIII, for all pollutants. The maximum NMHC + NO_X is 3.0 g/HP-hr, the maximum CO is 2.6 g/HP-hr, and the maximum PM is 0.15 g/HP-hr. [Rule 62-204.800(8), F.A.C., and 40 CFR 60.4205(c)]

FF.4. Continuous Compliance. Owners and operators of stationary CI ICE must operate and maintain stationary CI RICE that achieve the emission standards as required in 40 CFR 60.4205 over the entire life of the engine. [Rule 62-204.800(8), F.A.C. and 40 CFR 60.4206]

MONITORING OF OPERATIONS

FF.5. Monitoring requirements for stationary CI internal combustion engines. Owners and operators must install a non-resettable hour meter prior to startup of the engine, if such a meter is not already installed. [Rule 62-204.800(8), F.A.C., and 40 CFR 60.4209(a)]

COMPLIANCE REQUIREMENTS

FF.6. Work or Management Practice Standards. Compliance requirements for stationary CI internal combustion engines are as follows:

a. The Permittee must do all of the following:

(1) Operate and maintain the stationary CI internal combustion engine and control device according to the manufacturer's emission-related written instructions;

(2) Change only those emission-related settings that are permitted by the manufacturer; and

(3) Meet the requirements of 40 CFR 89, 94 and/or 1068, as they apply to you.

b. The Permittee must operate the emergency stationary RICE according to the requirements in paragraphs (f)(1) through (3) of section 40 CFR 60.4211. In order for the engine to be considered an emergency stationary RICE under 40 CFR 63 Subpart IIII, any operation other than emergency operation, maintenance and testing, and operation in non-emergency situations for 50 hours per year, as described in paragraphs (f)(1) through (3) of 40 CFR 60.4211, is prohibited. If you do not operate the engine according to the requirements in paragraphs (f)(1) through (3) of 40 CFR 60.4211, the engine will not be considered an emergency engine under 40 CFR 63 Subpart IIII and must meet all requirements for non-emergency engines.

(1) There is no time limit on the use of emergency stationary RICE in emergency situations.

(2) You may operate your emergency stationary RICE for any combination of the purposes specified in paragraphs (f)(2)(i) through (iii) of 40 CFR 60.4211 for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed by paragraph (f)(3) of 40 CFR 60.4211 counts as part of the 100 hours per calendar year allowed by paragraph (f)(2).

(a) Emergency stationary RICE may be operated for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, or the insurance company associated with the engine.

(b) Permittee may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if Permittee maintains records indicating that federal, state, or local standards require maintenance and testing of emergency RICE beyond 100 hours per calendar year.

(3) Emergency stationary RICE may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing provided in paragraph (f)(2) of 40 CFR 60.4211.

c. If you do not install, configure, operate and maintain your engine and control device according to the manufacturer's emission-related written instructions, or you change emission-related settings in a way that is not permitted by the manufacturer, you must demonstrate compliance as follows:

(1) The Permittee must keep a maintenance plan and records of conducted maintenance to demonstrate compliance and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions.

(2) In addition, you must conduct an initial performance test to demonstrate compliance with the applicable emission standards within 1 year of such action.

[Rule 62-204.800(8), F.A.C., and 40 CFR 60.4211]

Recordkeeping and reporting Requirements

FF.7. Notification, reporting, and recordkeeping requirements for stationary CI RICE. Permittee of an emergency stationary CI RICE is not required to submit an initial notification. The Permittee must keep records of the operation of the engine in emergency and non-emergency service that are recorded through the non-resettable hour meter. The owner must record the time of operation of the engine and the reason the engine was in operation during that time. [Rule 62-204.800(8), F.A.C., and 40 CFR 60.4214(b)]

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The following conditions apply to specific emission units and activities as referenced in this Permit:

C.C.1. Compliance Monitoring. In addition to specific control device parameter monitoring requirements previously specified, Permittee must maintain minimum daily monitoring data availability in accordance with criteria specified in 40 CFR 63.152(c)(2)(A). Each day in which the average daily value of a control device parameter is not maintained within its required ranges or minimum data availability is not achieved is considered a single excursion. The maximum number of allowable excursions during any semiannual reporting period is specified in 40 CFR 63.152(c)(4)(B). If a monitored parameter is outside its established range or monitoring data are not collected during periods of start-up, shutdown, or malfunction (and the source is operated during such periods in accordance with the source's start-up, shutdown, and malfunction plan as required by 40 CFR 63.6(e)(3) or 40 CFR 63 Subpart A) or during periods of nonoperation of the chemical manufacturing process unit or portion thereof (resulting in cessation of the emissions to which the monitoring applies), then the excursion is not a violation and, in cases where continuous monitoring is required, the excursion does not count toward the number of excused excursions for determining compliance. [Rule 62-204.800(11), F.A.C., and 40 CFR 63.152(c)]

C.C.2. Startup, Shutdown, and Malfunction Plan (SSMP). Permittee shall prepare a startup/shutdown/malfunction plan that describes, in detail, procedures for operating and maintaining the source during periods of startup, shutdown, and malfunction and a program of corrective action for malfunctioning process and air pollution control equipment used to comply with the relevant standard. The plan shall identify all routine or otherwise predictable continuous monitoring system malfunctions. The plan shall be developed by the compliance date for that relevant standard. Each plan prepared is incorporated by reference into this Title V permit. Actions taken that are consistent with the startup/shutdown/malfunction plan must be reported on a semi-annual basis within 30 days after each calendar half year (January 31 and July 31). [Rules 62-204.800(11), F.A.C., 40 CFR 63.6(e)(3)(i) & (ii), and 40 CFR 63.103(c)(2)(i)(ii)]

C.C.3. Recordkeeping and Reporting of Startups, Shutdowns, and Malfunctions. When actions during startup/shutdown/malfunction with excess emissions (startup/shutdown/malfunction that causes the source to exceed any applicable emission limitation in the relevant emission standards) are taken consistent with the SSMP, records shall be maintained indicating that recommended procedures were followed. A Periodic Startup, Shutdown, and Malfunction Report shall be submitted semiannually for actions that were taken that were consistent with the Plans in accordance with the requirements of 40 CFR 63.10(d)(5)(i). Actions taken that are inconsistent with a startup/shutdown/malfunction plan must be reported within 2 working days with written follow-up provided within 7 working days. [Rule 62-204.800(11), F.A.C., and 40 CFR 63.10(d)(5)]

C.C.4. Excess Emissions and Data Obtained During Startups, Shutdowns, and Malfunctions.

a. Excess emissions resulting from startup, shutdown or malfunction of any emissions unit shall be permitted provided (1) best practices to minimize emissions are adhered to and (2) the duration of excess emissions shall be minimized but in no case exceed two hours in any 24-hour period unless specifically authorized by the Department for longer duration. Excess emissions that are caused entirely or in part by poor maintenance, poor operation, or any other equipment or process failure that may reasonably be prevented during startup, shutdown or malfunction shall be prohibited. [Rule 62-210.700(1), F.A.C.]

b. Malfunctions must be corrected as soon as practicable after their occurrence. To the extent that an unexpected event arises during a startup, shutdown, or malfunction, an owner or operator must comply by minimizing emissions during such a startup, shutdown, and malfunction event consistent with safety and good air pollution control practices. [Rule 62-204.800(11), F.A.C.; and 40 CFR 63.6(e)(ii)]

c. Monitoring data recorded during monitoring system breakdowns, repairs, calibration checks, and zero (low-level) and high-level adjustments; Start-ups; Shutdowns; Malfunctions; Periods of non-operation of the chemical manufacturing process unit (or portion thereof), resulting in cessation of the emissions to which the monitoring applies, shall not be included in any average computed under 40 CFR 63, Subpart

G. Records shall be kept of the times and durations of all such periods and any other periods during process or control device operation when monitors are not operating. [Rule 62-204.800(11), F.A.C.; and 40CFR 152(f)(7)]

d. The provisions set forth in 40 CFR 63 Subparts F and G shall apply at all times except during periods of start-up or shutdown, malfunction, or non-operation of the chemical manufacturing process unit (or specific portion thereof) resulting in cessation of the emissions to which 40 CFR 63Subparts F and G apply. However, if a start-up, shutdown, malfunction or period of non-operation of one portion of a chemical manufacturing process unit does not affect the ability of a particular emission point to comply with the specific provisions to which it is subject, then that emission point shall still be required to comply with the applicable provisions of 40 CFR 63 Subparts F and G during the start-up, shutdown, malfunction or period of non- operation. [Rules 62-204.800(11) and 2., F.A.C.; and 40 CFR 63.102(a)(1)]

C.C.5. General Recordkeeping Requirements. In addition to recordkeeping requirements specified in Specific Conditions, Permittee shall maintain files of information (including performance reports and initial notifications) required under 40 CFR 63. Required information includes information specified in the following sections:

a. 40 CFR 63.10(b) & (c) ("general provisions");

b. 40 CFR 63.117 and/or 63.118 ("process vents")

c. 40 CFR 63.123 ("storage vessels")

d. 40 CFR 63.130 ("transfer operations")

e. 40 CFR 63.147 ("process wastewater")

f. 40 CFR 63.152 ("general reporting and continuous records")

[Rules 62-204.800(11), and (11)(d), F.A.C.]

C.C.6. General Reporting Requirements for Specific Emission Units Subject to 40 CFR 63 Subpart G. Periodic reports shall be submitted to the Department semiannually no later than 60 calendar days after the end of each 6-month period. In addition to any reporting required under Specific Conditions of this permit, Periodic Reports shall include information specified in the following sections:

a. 40 CFR 63.10(d) ("general provisions");

b. 40 CFR 63.117 and/or 63.118 ("process vents")

c. 40 CFR 63.122 ("storage vessels")

d. 40 CFR 63.129 and/or 63.130 ("transfer operations")

e. 40 CFR 63.146 ("process wastewater")

f. 40 CFR 63.152(c)(2), (c)(3), (c)(4) ("general reporting and continuous records")

[Rules 62-204.800(11), and (11)(d), F.A.C.]

C.C.7. Additional Reporting Requirements for Sources with Continuous Monitoring Systems (CMS). Sources required by a relevant standard under 40 CFR 63 to install a CMS shall submit semiannual reports summarizing information specified in 40 CFR 63.10(e)(3). [Rule 62-204.800(11), F.A.C.; and 40 CFR 63.10(e)(3)]

C.C.8. Schedule of Reporting for Specific Sources Subject to 40 CFR 63 Subparts F, G and H. Periodic reporting required under Common Conditions **C.C.3**, **C.C.6** and **C.C.7** shall be submitted with Title V semiannual Progress Reports unless a mutual agreement to change the schedule of reporting is reached between Permittee and the Department. Notwithstanding, the Department may reduce the frequency of periodic reporting at the request of

Permittee provided that the conditions specified in 40 CFR 63.10(e)(3)(ii) are met. [Rule 62-204.800(11(d), F.A.C., and 40 CFR 63.10(e)(3)(ii)]

C.C.9. Closed Vent System Inspections. Each closed vent system shall be inspected and maintained on an annual basis according to the criteria specified in 40 CFR 63.148. [Rule 62-204.800(11), F.A.C., and 40 CFR 63.120(d)(6)]

C.C.10. Compliance reports. Compliance reports must contain the following information per 40 CFR 63.2520(e):

a. Company name and address.

b. Statement by a responsible official with that official's name, title, and signature, certifying the accuracy of the content of the report. If your report is submitted via CEDRI, the certifier's electronic signature during the submission process replaces the requirement in this paragraph.

c. Date of report and beginning and ending dates of the reporting period. You are no longer required to provide the date of the report when the report is submitted via CEDRI.

d. For each SSM during which excess emissions occur, the compliance report must include records that the procedures specified in your startup, shutdown, and malfunction plan (SSMP) were followed or documentation of actions taken that are not consistent with the SSMP and include a brief description of each malfunction. On or after August 12, 2023, this paragraph no longer applies; however, for historical compliance purposes, a copy of the plan must be retained and available on-site for five years after August 12, 2023.

e. The compliance report must contain the information on deviations, as defined in 40 CFR 63.2550, according to paragraphs (e)(5)(i), (ii), (iii), and (iv) of 40 CFR 63.2520.

(1) If there are no deviations from any emission limit, operating limit or work practice standard specified in 40 CFR 63 Subpart FFFF, include a statement that there were no deviations from the emission limits, operating limits, or work practice standards during the reporting period.

(2) For each deviation from an emission limit, operating limit, and work practice standard that occurs at an affected source where you are not using a continuous monitoring system (CMS) to comply with the emission limit or work practice standard in 40 CFR 63 Subpart FFFF, you must include the information in paragraphs (e)(5)(ii)(A) through (D) of 40 CFR 63.2520. This includes periods of SSM.

(i) The total operating time in hours of the affected source during the reporting period.

(ii) Operating logs of processes with batch vents from batch operations for the day(s) during which the deviation occurred, except operating logs are not required for deviations of the work practice standards for equipment leaks.

(iii) Report information for each deviation to meet an applicable standard. For each instance, report the start date, start time, and duration in hours of each deviation. For each deviation, the report must include a list of the affected sources or equipment, an estimate of the quantity in pounds of each regulated pollutant emitted over any emission limit, a description of the method used to estimate the emissions, the cause of the deviation (including unknown cause, if applicable), as applicable, and the corrective action taken.

(3) For each deviation from an emission limit or operating limit occurring at an affected source where you are using a CMS to comply with an emission limit in 40 CFR 63 Subpart FFFF, you must include the information in paragraphs (e)(5)(iii)(A) through (N) of 40 CFR 63.2520. This includes periods of SSM.

(i) The start date, start time, and duration in hours that each CMS was inoperative, except for zero (low-level) and high-level checks.

(ii) The start date, start time, and duration in hours that each CMS was out-of-control and a description of the corrective actions taken.

(iii) A summary of the total duration in hours of all deviations for each CMS during the reporting period, the total operating time in hours of the affected source during the reporting period, and the total duration as a percent of the total operating time of the affected source during that reporting period.

(iv) A summary of the total duration in hours of CMS downtime for each CMS during the reporting period, and the total duration of CMS downtime as a percent of the total operating time of the affected source during that reporting period.

(v) An identification of each HAP that is known to be in the emission stream.

(vi) A brief description of the process units.

(vii) A brief description of the CMS. The monitoring equipment manufacturer(s) and model number(s) and the pollutant or parameter monitored.

(viii) The date of the latest CMS certification or audit.

(ix) Operating logs of processes with batch vents from batch operations for each day(s) during which the deviation occurred.

(x) The operating day or operating block average values of monitored parameters for each day(s) during which the deviation occurred.

(xi) Report the number of deviations to meet an applicable standard. For each instance, report the start date, start time and duration in hours of each deviation. For each deviation, the report must include a list of the affected sources or equipment, an estimate of the quantity in pounds of each regulated pollutant emitted over any emission limit, a description of the method used to estimate the emissions, and the cause of the deviation (including unknown cause, if applicable), as applicable, and the corrective action taken.

(xii) Report a breakdown of the total duration in hours of the deviations during the reporting period into those that are due control equipment problems, process problems, other known causes, and other unknown causes.

(4) If you documented in your notification of compliance status report that an MCPU has Group 2 batch process vents because the non-reactive HAP is the only HAP and usage is less than 10,000 lb/yr, the total uncontrolled organic HAP emissions from the batch process vents in an MCPU will be less than 1,000 lb/yr for the anticipated number of standard batches, or total uncontrolled hydrogen halide and halogen HAP emissions from all batch process vents and continuous process vents in a process are less than 1,000 lb/yr, include the records associated with each calculation required by 40 CFR 63.2525(e) that exceeds an applicable HAP usage or emissions threshold.

f. If you use a CEMS, and there were no periods during which it was out-of-control as specified in 40 CFR 63.8(c)(7), include a statement that there were no periods during which the CEMS was out-of-control during the reporting period.

g. Include each new operating scenario which has been operated since the time period covered by the last compliance report and has not been submitted in the notification of compliance status report or a previous compliance report. For each new operating scenario, you must report the information specified in 40 CFR 63.2525(b) and provide verification that the operating conditions for any associated control or treatment device have not been exceeded and that any required calculations and engineering analyses have been

performed. For the purposes of this paragraph, a revised operating scenario for an existing process is considered to be a new operating scenario.

h. Records of process units added to a process unit group (PUG) as specified in 40 CFR 63.2525(i)(4) and records of primary product redeterminations as specified in 40 CFR 63.2525(i)(5).

i. Applicable records and information for periodic reports as specified in referenced subparts F, G, H, SS, UU, WW, and GGG of Part 63 and 40 CFR 65 subpart F (Equipment Leaks); except as specified in 40 CFR 63.2450(e)(4), 40 CFR 63.2480(f), and 40 CFR 63.2485(p) and (q) and paragraph (t) of 40 CFR 63.2520.

j. *Notification of process change:*

(1) Except as specified in paragraph (e)(10)(ii) of 40 CFR 63.2520, whenever you make a process change, or change any of the information submitted in the notification of compliance status report or a previous compliance report, that is not within the scope of an existing operating scenario, you must document the change in your compliance report. A process change does not include moving within a range of conditions identified in the standard batch, and a nonstandard batch does not constitute a process change. The notification must include all of the information in paragraphs (e)(10)(i)(A) through (C) of 40 CFR 63.2520.

(i) A description of the process change.

(ii) Revisions to any of the information reported in the original notification of compliance status report under paragraph (d) of 40 CFR 63.2520.

(iii) Information required by the notification of compliance status report under paragraph (d) of 40 CFR 63.2520 for changes involving the addition of processes or equipment at the affected source.

(2) You must submit a report 60 days before the scheduled implementation date of any of the changes identified in paragraph (e)(10)(ii)(A), (B), or (C) of 40 CFR 63.2520.

(i) Any change to the information contained in the pre-compliance report.

(ii) A change in the status of a control device from small to large.

(iii) A change from Group 2 to Group 1 for any emission point except for batch process vents that meet the conditions specified in 40 CFR 63.2460(b)(6)(i).

[Rule 62-204.800(11), F.A.C., and 40 CFR 63.2520(e)]

k. For each flare subject to the requirements in 40 CFR 63.2450(e)(5), the compliance report must include the items specified in paragraphs (e)(11)(i) through (vi) of 40 CFR 63.2520(e)(11) in lieu of the information required in 40 CFR 63.999(c)(3) of subpart SS.

(1) Records as specified in 40 CFR 63.2525(m)(1) for each 15-minute block during which there was at least one minute when regulated material is routed to a flare and no pilot flame or flare flame is present. Include the start and stop time and date of each 15-minute block.

(2) Visible emission records as specified in 40 CFR 63.2525(m)(2)(iv) for each period of 2 consecutive hours during which visible emissions exceeded a total of 5 minutes.

(3) The periods specified in 40 CFR 63.2525(m)(6). Indicate the date and start and end times for each period, and the net heating value operating parameter(s) determined following the methods in 40 CFR 63.670(k) through (n) of subpart CC as applicable.

(4) For flaring events meeting the criteria in 40 CFR 63.670(o)(3) of subpart CC and 40 CFR 63.2450(e)(5)(v):

i. The start and stop time and date of the flaring event.

ii. The length of time in minutes for which emissions were visible from the flare during the event.

iii. For steam-assisted, air-assisted, and non-assisted flares, the start date, start time, and duration in minutes for periods of time that the flare tip velocity exceeds the maximum flare tip velocity determined using the methods in 40 CFR 63.670(d)(2) of subpart CC and the maximum 15-minute block average flare tip velocity in ft/sec recorded during the event.

iv. Results of the root cause and corrective actions analysis completed during the reporting period, including the corrective actions implemented during the reporting period and, if applicable, the implementation schedule for planned corrective actions to be implemented subsequent to the reporting period.

l. For bypass lines subject to the requirements 40 CFR 63.2450(e)(6), the compliance report must include the start date, start time, duration in hours, estimate of the volume of gas in standard cubic feet, the concentration of organic HAP in the gas in parts per million by volume and the resulting mass emissions of organic HAP in pounds that bypass a control device. For periods when the flow indicator is not operating, report the start date, start time, and duration in hours.

m. For any maintenance vent release exceeding the applicable limits in 40 CFR 63.2450(v)(1), the compliance report must include the information specified in paragraphs (e)(14)(i) through (iv) of 40 CFR 63.2520(e)(14). For the purposes of this reporting requirement, if you comply with 40 CFR 63.2450(v)(1)(iv) then you must report each venting event conducted under those provisions and include an explanation for each event as to why utilization of this alternative was required.

(1) Identification of the maintenance vent and the equipment served by the maintenance vent.

(2) The date and time the maintenance vent was opened to the atmosphere.

(3) The lower explosive limit in percent, vessel pressure in psig, or mass in pounds of VOC in the equipment, as applicable, at the start of atmospheric venting. If the 5 psig vessel pressure option in 40 CFR 63.2450(v)(1)(ii) was used and active purging was initiated while the concentration of the vapor was 10 percent or greater of its LEL, also include the concentration of the vapors at the time active purging was initiated.

(4) An estimate of the mass in pounds of organic HAP released during the entire atmospheric venting event.

n. Compliance reports for pressure relief devices subject to the requirements 40 CFR 63.2480(e) must include the information specified in paragraphs (e)(15)(i) through (iii) of 40 CFR 63.2520(e)(15).

(1) For pressure relief devices in organic HAP gas or vapor service, pursuant to 40 CFR 63.2480(e)(1), report the instrument readings and dates for all readings of 500 ppmv or greater.

(2) For pressure relief devices in organic HAP gas or vapor service subject to 40 CFR 63.2480(e)(2), report the instrument readings and dates of instrument monitoring conducted.

(3) For pressure relief devices in organic HAP service subject to 40 CFR 63.2480(e)(3), report each pressure release to the atmosphere, including the start date, start time, and duration in minutes of the pressure release and an estimate of the mass quantity in pounds of each organic HAP released; the results of any root cause analysis and corrective action analysis completed during the reporting period, including the corrective actions implemented during the reporting period; and, if applicable, the implementation schedule for planned corrective actions to be implemented subsequent to the reporting period.

[Rule 62-204.800(11), F.A.C., and 40 CFR 63.2520(e)] Back to Table of Contents