TABLE 1
SUMMARY OF APPLICABLE REQUIREMENTS AND COMPLIANCE PROCEDURES
TAMINCO, INC. – TAMINCO PACE PLANT

Permit Section III ID. No.	Description	Condition/Limitation	Compliance Testing / Demonstration Requirement(s)	Recordkeeping/ Reporting Requirement(s)
A	Three Methanol storage Tanks: TK-53407, TK-53405, TK-53401B	Each floating roof shall be equipped with a metallic shoe seal. [62-204.800(10)(b), F.A.C.] [1130004003AC, SC #5] [40 CFR 63.119(a)(1), (b)(3)]	Must 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. 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 10 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 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, the owner or operator may utilize up to 2 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 alternate storage capacity is unavailable, and that specifies a schedule of actions that will ensure that the equipment will be repaired or the vessel will be emptied as soon as possible. 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, or 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. [62-204.800(10)(b), F.A.C.] [40 CFR 63.120(a)(2)] [40 CFR 63.120(a)(4) - (6)] [1130004003AC, SC #6] <u>STERP</u>. Visually inspect the deck fitting for the slotted guidepole at least once every 10 years and each time the vessel is emptied and degassed. If the slotted guidepole 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 guidepole 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)]	(1) 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. The Department shall be notified in writing at least 30 calendar days prior to the refilling of a storage vessel that has been emptied and degassed. If the facility could not have known about the refilling 30 calendar days in advance, the facility shall notify the Department at least 7 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. [62-204.800(10)(b), F.A.C.] [40 CFR 63.122, (a)(4), (a)(5), (d)] [40 CFR 63.123(a), (c), (g)] [1130004003AC, SC #7] (2) Except in the event of an unplanned inspection, the Department shall be notified in writing 30 days in advance of refilling the vessel. In the event of an unplanned inspection, the Department shall be notified within 7 calendar days prior to the refilling of the storage vessel. Notification may be made by telephone and immediately followed by written documentation demonstrating why the inspection was unplanned. Alternatively, the notification may be solely in writing. [62-204.800(10)(b), F.A.C.] [40 CFR 63.120(a)(6)] (3) Records showing each tank's dimensions and capacities and records of each inspection shall be maintained as long as the tank retains Group 1 or Group 2 status under the HON and is in operation.

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				[62-204.800(10)(b), F.A.C.] [40 CFR 63.123(a) and (c)] [1130004003AC, SC #8]
B	Sitewide HON Heat Exchangers	All sitewide heat exchange systems not meeting the conditions specified in 40 CFR 63.104(a)(1) through (6), shall be monitored by (a) 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 (b) using a surrogate indicator of heat exchanger system leaks as specified in 40 CFR 63.104(c)(1) through (3). [62-204.800(10)(b), F.A.C.] [40 CFR 63.104(a), (b), and (c)]	Beginning April 22, 1999, any leaks that are detected shall be repaired as soon as practical but not later than 45 days after the Permittee receives results of monitoring tests indicating a leak. After repair, the Permittee shall confirm that the heat exchange system has been repaired within 7 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. [62-204.800(10)(b), F.A.C.] [40 CFR 63.104(d) and (e)]	Beginning April 22, 1999, the Permittee shall maintain records of required monitoring, leaks detected, 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 the Permittee invokes the delay of repair. Periodic reports shall include information required by 40 CFR 63.104(f)(2). [62-204.800(10)(b), F.A.C.] [40 CFR 63.104(f)]
C	Methanol Storage HON-Maintenance Wastewater	Permittee shall prepare a description of maintenance procedures for management of wastewaters containing those organic HAPs listed in Table 9 of 40CFR 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: (1) specify process equipment or maintenance tasks anticipated to create wastewater during maintenance activities, (2) specify procedures that will be followed to properly manage the wastewater and control organic HAP emissions to the atmosphere, and (3) specify procedures to be followed when clearing materials from process equipment. Permittee shall modify and update maintenance procedures as needed. [62-204.800(10)(b), F.A.C.] [40 CFR 63.105(b) and (c)]	The 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 Part 63 standards no longer apply to the source. No notification or periodic reporting of maintenance wastewater activities is required. [62-204.800(10)(b), F.A.C.] [40 CFR 63.105(d)]	See requirements specified in "Compliance Testing/Demonstration Requirement(s)" column.

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D	Methanol Storage Sample Points	Sampling points in methanol service shall meet the criteria set forth in 40 CFR 63.166. [62-204.800(10)(b), F.A.C.] [40 CFR 63.166]	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). [62-204.800(10)(b), F.A.C.][40 CFR 63.166]	The 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 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. [62-204.800(10)(b), F.A.C.][40 CFR 63.181]
E	Methanol Loading Scrubber	Emissions from methanol loading operations shall be controlled using a vapor collection system and control device that reduces emissions of total organic hazardous air pollutant by 98 weight percent or to an exit concentration of 20 parts per million by volume, on a dry basis, corrected to 3% oxygen, whichever is less stringent. [62-204.800(10)(b), F.A.C.] [40 CFR 63.126(a) and (b)(1)]	Scrubbing liquor water flow rate shall be maintained at a minimum of 1.25 gallons per minute. Flow rate monitoring shall be monitored continuously and recorded on a strip chart. [62-204.800(10)(b), F.A.C.] [40 CFR 63.129(c)]	(1) Periodic reports shall note any occurrences in which the minimum scrubber liquor flow rate was not maintained and the methanol transfer interlock device or operator did not immediately cease loading operations. These events shall be noted in periodic reports as excursions if the average daily value of the scrubber liquor flowrate measured during loading events falls below the minimum flow rate and the average daily flowrate shall be noted for that day. Reports shall also note any occurrences in which loading occurred while the strip-chart recorder was inoperative. Such occurrences shall be noted as excursions caused by lack of monitoring data. 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 §63.6(e)(3) of subpart A of this part) or during periods of nonoperation of the loading operation, then the excursion is not a violation and the excursion does not count toward the number of excused excursions for determining compliance. [62-204.800(10)(b), F.A.C.] [40 CFR 63.130(d)] [40 CFR 63.152(c)(4)(C)] (2) The following information shall be recorded and updated on an annual basis and be maintained in a readily accessible location on site: • An analysis demonstrating the design and actual annual throughput of the transfer rack;

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				• An analysis documenting the weight-percent organic HAPs in the liquid loaded. • An analysis documenting the annual rack weighted average HAP partial pressure of the transfer rack. [62-204.800(10)(b), F.A.C.] [40 CFR 63.130(f)] (3) During methanol loading, flow rate shall be monitored continuously and recorded on a strip chart. Maintenance of scrubber water flow and flow rate monitoring and recording is only required during methanol loading activities. For EU 028, the Startup, Shutdown and Malfunction plan as required by Common condition HH.8 shall specify verification of scrubber water flow, and implementation of flow monitoring and recordkeeping prior to initiation of methanol loading. [Rule 62-204.800(10)(b), F.A.C.; 40 CFR 63.129(c); Notification of Compliance Status Report (6/24/98)]
E	Methanol Loading Scrubber	Organic HAPs shall only be loaded into tank trucks or railcars meeting the criteria specified in 40 CFR 63.126(e), (f), and (g). [62-204.800(10)(b), F.A.C.] [40 CFR 63.126(e), (f), and (g)]	The vapor-tightness of tank trucks and railcars shall be demonstrated by maintaining records of either that the receiver has a current certification in accordance with the U.S. Department of Transportation pressure test requirements for 49 CFR Part 180 for tank trucks and 49 CFR 173.31 for railcars, or that has been demonstrated to be vapor-tight within the previous 12 months, as determined by the procedures specified in 40 CFR 63.128(f). [62-204.800(10)(b), F.A.C.] [40 CFR 63.126(e)]	Periodic reports shall document that the verification of DOT tank certification testing or EPA Method 27 testing has been performed. [62-204.800(10)(b), F.A.C.] [40 CFR 63.130(e)]
F	Methanol Storage HON Equipment Leaks	<u>Pumps</u>. The Permittee shall meet the criteria set forth in 40 CFR 63.163 for pumps in light liquid service that have been designated by the Permittee to be in organic hazardous air pollutant light liquid service for 300 or more hours per year. [62-204.800(10)(b), F.A.C.] [40 CFR 63.163] [1130004004AC, SC #12]	In order to comply with the requirements of 40 CFR 63.163, the Permittee shall either: (1) Comply with the Phase III leak detection and repair requirements specified in 40 CFR 63.163. (2) Alternately, the Permittee may comply with the requirements specified in 40 CFR 63.163 using methods specified in 40 CFR 63.163(e), (f), or (g). [62-204.800(10)(b), F.A.C.] [40 CFR 63.163] [40 CFR 63.180]	If the 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

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				63.182(d) shall be submitted to the Department. [62-204.800(10)(b), F.A.C.] [40 CFR 63.181 and .182]
F	Methanol Storage HON Equipment Leaks	Pressure relief devices. The 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 the 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. [62-204.800(10)(b), F.A.C.] [40 CFR 63.165]	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 5 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 5 days after the release. [62-204.800(10)(b), F.A.C.] [40 CFR 63.165] [40 CFR 63.180]	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. [62-204.800(10)(b), F.A.C.] [40 CFR 63.181 and .182]
F	Methanol Storage HON Equipment Leaks	Open-ended valves or lines. The Permittee shall comply with requirements set forth in 40 CFR 63.167 for open-ended lines that have been designated by the Permittee to be in organic hazardous air pollutant service for 300 or more hours per year. [62-204.800(10)(b), F.A.C.] [40 CFR 63.167]	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) and (e), which are exempt. The Permittee shall also comply with work and operating practices specified in 40 CFR 63.167(a)(2), (b), and (c). [62-204.800(10)(b), F.A.C.] [40 CFR 63.167]	The 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. [62-204.800(10)(b), F.A.C.] [40 CFR 63.181 and .182]
F	Methanol Storage HON Equipment Leaks	Valves. The 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 the Permittee to be in organic hazardous air pollutant light liquid/gas service for 300 or more hours per year. [62-204.800(10)(b), F.A.C.] [40 CFR 63.168]	The Permittee shall inspect and repair valves according to the criteria specified in 40 CFR 63.168. [62-204.800(10)(b), F.A.C.] [40 CFR 63.165] [40 CFR 63.180]	Records shall be maintained in accordance with 40 CFR 63.181(b)(1)(i) and (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. [62-204.800(10)(b), F.A.C.] [40 CFR 63.181 and .182]
F	Methanol Storage HON Equipment	Connectors. The Permittee shall comply with Phase III leak detection and repair	The Permittee shall inspect and repair connectors according to the criteria specified in 40 CFR 63.174.	Records shall be maintained in accordance with 40 CFR 63.181(b)(1)(i) and (ii), (b)(5), (b)(7),

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	Leaks	criteria set forth in 40 CFR 63.174 for connectors in light liquid and gas service that have been designated by the Permittee to be in organic hazardous air pollutant light liquid/gas service for 300 or more hours per year. [62-204.800(10)(b), F.A.C.] [40 CFR 63.174]	[62-204.800(10)(b), F.A.C.] [40 CFR 63.174]	and (d). Periodic reports containing relevant information specified in 40 CFR 63.182(d) shall be submitted to the Department. [62-204.800(10)(b), F.A.C.] [40 CFR 63.181 and .182]
G	Nitric Acid Plant No. 1 Catalytic Combustor Nitric Acid Plant No. 2 Catalytic Combustor	Maximum allowable operating rate of Nitric Acid Plant No. 1 is 480 tons/day and 175,2000 tons/yr of nitric acid (100% basis). Maximum allowable operating rate of Nitric Acid Plant No. 2 is 26,500 pounds per hour and 96,732 tons/yr of nitric acid (100% basis). When Plant 2 has been upgraded as authorized by permit 1130004-010-AC and has successfully passed initial performance testing, this condition will become: Plant 1: no change. Maximum allowable operating rate of Nitric Acid Plant No. 2 is 360 tons/day and 131,400 tons/yr of nitric acid (100% basis). [62-213.440(1), F.A.C.] [AO57-179656/8, SC #15][1130004-010-AC]	The annual production rate of nitric acid will be calculated from the measured flow of nitric acid at the exit of each absorber. Annual production rate shall be calculated semiannually for the previous 12-month period. [62-213.440(1), F.A.C.]	Maintain records of operation. Each semiannual Title V progress report shall contain the annual production rate for the previous 12-month period. [62-4.070(3) & 62-213.440(1), F.A.C]
G	Nitric Acid Plant No. 1 Catalytic Combustor Nitric Acid Plant No. 2 Catalytic Combustor	Emissions of nitrogen oxides shall not exceed 3.0 pounds per ton of nitric acid (100% basis) or 262.8 tons/yr and 145.1 tons/yr for Plant 1 and 2, respectively, whichever is less. When Plant 2 has been upgraded as authorized by permit 1130004-010-AC and has successfully passed initial performance testing, this condition will become: Emissions of nitrogen oxides shall not exceed 3.0 pounds per ton of nitric acid (100% basis) or 262.8 tons/yr and 197.1	EPA Method 7 stack testing shall be conducted once per year during the federal fiscal year (October 1 – September 30). [62-213.440(1), F.A.C.] [AO57-179656, SC #19]	Results of testing reported to the Department within 45 days after testing and must contain, at a minimum, information required in [62-297.310(8), F.A.C.].

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		tons/yr for Plant 1 and 2, respectively, whichever is less. [62-213.440(1), F.A.C.] [AO57-179656/8, SC #18][1130004-010-AC]		
G	Nitric Acid Plant No. 1 Catalytic Combustor Nitric Acid Plant No. 2 Catalytic Combustor	Visible emissions shall not exceed 10%. [62-296.408(1), F.A.C.] [AO57-179656, SC #16]	EPA Method 9 testing shall be conducted once per year during the federal fiscal year (October 1 – September 30). [62-296.320(4)(a), F.A.C.] [AO57-179656, SC #19]	Results of testing shall be reported to the Department within 45 days after testing and must contain, at a minimum, information required in [62-297.310(8), F.A.C.].
H	Riley Stoker Boiler	The maximum allowable operating rate of the Riley Stoker Boiler is 90,000 pounds of steam per hour at 600 psig, averaged daily. [62-213.440(1), F.A.C.]	The production rate of steam shall be calculated from the steam production daily records.	The Permittee shall maintain records of operation.
H	Riley Stoker Boiler	Visible emissions shall not exceed 20% opacity under normal operating conditions except for up to one 2-minute period per hour during which opacity shall not exceed 40%. [62-296.406(1), F.A.C.]	EPA Method 9 testing shall be conducted annually during each federal fiscal year at 90 to 100 percent of the maximum capacity. [62-297.310(2)(b), F.A.C.] [AO57-179642, SC #17]	Results of testing reported to the Department within 45 days after testing and must contain, at a minimum, information required in [62-297.310(8), F.A.C.].
I	B & W Boiler	The maximum allowable operating rate of the B & W Boiler is 90,000 pounds of steam per hour at 600 psig, averaged daily. [62-213.440(1), F.A.C.]	The annual production rate of steam shall be calculated from daily records.	The Permittee shall maintain records of operation. The annual production rate of steam shall be calculated from the monthly measured steam production
I	B & W Boiler	Visible emissions shall not exceed 20% opacity under normal operating conditions except for up to one 2-minute period per hour at not more than 40% opacity. [62-296.406(1), F.A.C.]	EPA Method 9 testing shall be conducted annually during each federal fiscal year at 90 to 100 percent of the maximum boilerplate capacity, which is 90,000 pounds per hour of steam. [62-297.310(2)(b), F.A.C.] [AO57-179641, SC #17]	Results of testing reported to the Department within 45 days after testing and must contain, at a minimum, information required in [62-297.310(8), F.A.C.].
J	Amines Plants Flare	The Amines Plants Flare, a non-assisted flare, shall: • Be operated at all times when HON-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) when emission units subject to 40 CFR Parts G or H are venting to	• Compliance with the minimum net heating value requirement shall be demonstrated 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). • The presence of a flare pilot plant flame shall be measured using a thermocouple or other equivalent device. • A high flow alarm on the natural gas flow controller shall ensure that the maximum allowable flare exit velocity 60 ft/sec (18.3	The Permittee shall maintain records of the following information: • 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.

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		the flare • Be operated with a flame present at all times. • Maintain the exit velocity of gas from the flare at less than or equal to 60 ft/sec (18.3 m/sec). [62-204.800(10)(b), F.A.C.] [40 CFR 63.11(b)(3), (5), (6) and (7)]	m/sec) will not be exceeded. [62-204.800(10)(b), F.A.C.] [40 CFR 63.11(b)(3), (5), (6) and (7); and 40 CFR 60.18]	• Identification of the dates and durations during which flare control and monitoring systems were inoperative. The 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. [62-204.800(10)(b), F.A.C.] [40 CFR 63.118(a)(1)] [40 CFR 63.122(g)(3)] [40 CFR 63.130(a)(i)] [40 CFR 63.130(a)(1)] [40 CFR 152(c)(4)(E)(iii)] [40 CFR 63.172]
J	Amines Plants Flare	The Amines Plants Flare shall be operated with no visible emissions, except for periods not to exceed a total of 5 minutes in any 2 consecutive hours. [62-204.800(10)(b), F.A.C.] [40 CFR 63.11(b)(4)]	The Permittee shall conduct an EPA Method 22 test once during the twelve months prior to the expiration of the permit. The test shall be conducted during operations at a time when Methylamines Plant No. 1 or 4 are operating at maximum production rates. The observation period shall be at least 2 hours. [62-204.800(10)(b), F.A.C.] [40 CFR 63.11(b)(4)]	Results of testing must be reported to the Department within 45 days after testing and must contain, at a minimum, information required in 62-297.310(8), F.A.C. Periodic reports will only specify that EPA Method 22 testing was conducted and indicate any deviations from the visible emissions requirement. [62-297.310(8), F.A.C.]
J	Amines Plants Flare	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 Fuel Gas System Boilers. This condition does not apply to any of the Amines Plants High-Pressure Absorber Vents, which are typically routed to the Fuel Gas System and may be routed to the flare during startup, shutdown, malfunction and maintenance of the Fuel Gas System. [62-204.800(10)(b), F.A.C.] [40 CFR 63.6(e)(3]	The Permittee shall demonstrate compliance with this requirement by maintaining compliance with 40 CFR Part 63 requirements pertaining to startup, shutdown, malfunction, and reporting of maintenance activities 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. [62-204.800(10)(b), F.A.C.] [40 CFR 63.10(d)(5)]	See “Compliance Testing” column.
K	Methylamines Plant No. 1 Gas-Fired Heater	The maximum allowable operating rate of the Methylamines Gas-Fired Heater is 10 million Btu/hr 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	The Permittee shall maintain records of operation. The annual gas-fired heater heat capacity will be calculated on a semi-annual

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			natural gas. [62-213.440(1),F.A.C.]	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 natural gas. [62-213.440(1), F.A.C.]
K	Methylamines Plant No. 1 Gas-Fired Heater	Visible emissions shall be less than 20% opacity at all times. [62-296.320(4)(b), F.A.C.]	EPA Method 9 testing of the Methylamines Plant No. 1 Gas-Fired Heater Stack shall be conducted once within the final twelve months of the Title V permit at 90 to 100 percent of the maximum design firing rate of 10 million Btu per hour. [62-297(7)(a)3, F.A.C.]	The Permittee shall report the results of testing to the Department within 45 days after testing and must contain, at a minimum, information required in [62-297.310(8), F.A.C.].
L	Methylamines Plant No. 1 Process Vents	The Permittee shall reduce emissions of organic hazardous air pollutants (i.e., chemicals listed in Table 2 of 40 CFR Part 60 Subpart F) using a vapor collection system and flare meeting the criteria of 40 CFR 63.11(b). This condition does not apply to any of the High Pressure Absorber Vents which are typically routed to the Fuel Gas System. [62-204.800(10)(b), F.A.C.] [40 CFR 63.113(a)(1)]	Intermittent organic hazardous air pollutant emissions from Methylamines 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. [62-204.800(10)(b), F.A.C.] [40 CFR 63.113(a)(1)]	Periodic reports on flare operation will be submitted (see "Amines Plant Flare"). [62-204.800(10)(b), F.A.C.] [40 CFR 63.118] [40 CFR 63.152(c)(4)(C)]
M	Methylamines Plant No. 1 Wastewater	The Permittee shall comply with requirements set forth in 40 CFR 63.132(a)(1) through (a)(3), which requires that the Permittee determine whether a wastewater emission source is a Group 1 or Group 2 stream. For Group 2 streams, the Permittee shall comply with the recordkeeping requirements of 40 CFR 63.146. [62-204.800(10)(b), F.A.C.] [40 CFR 63.132(a)]	If the Permittee uses process knowledge to determine the annual average concentration of a wastewater stream and/or the annual average flowrate and thereby concludes that a wastewater stream is not a Group 1 stream, the Permittee shall keep in a readily accessible location the documentation of how process knowledge was used. [62-204.800(10)(b), F.A.C.] [40 CFR 63.147(f)]	Maintain records of information specified in "Compliance Demonstration" Column.
N	Methylamines Plant No. 1 HON Maintenance Wastewater	The Permittee shall maintain a description of 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	The 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 Part 63 standards no longer apply to the source. No notification or periodic reporting of maintenance wastewater activities is required. [62-204.800(10)(b), F.A.C.] [40 CFR 63.105(d)]	See requirements specified in "Compliance Testing/Demonstration Requirement(s)" column.

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Permit Section III ID. No.	Description	Condition/Limitation	Compliance Testing / Demonstration Requirement(s)	Recordkeeping/ Reporting Requirement(s)
		periods which are not shutdown (i.e., routine maintenance). The descriptions shall: (1) specify the process equipment or maintenance tasks that are anticipated to create wastewater during maintenance activities, (2) specify procedures that will be followed to properly manage the wastewater and control organic HAP emissions to the atmosphere, and (3) specify the procedures to be followed when clearing materials from process equipment. The Permittee shall modify and update the maintenance procedures as needed. [62-204.800(10)(b), F.A.C.] [40 CFR 63.105(b) and (c)]		
O	Methylamines Plant No. 1 HON Equipment Leaks	Pumps. The Permittee shall meet the criteria set forth in 40 CFR 63.163 for pumps in light liquid service that have been designated by the Permittee to be in organic hazardous air pollutant light liquid service for 300 or more hours per year. [62-204.800(10)(b), F.A.C.] [40 CFR 63.163]	In order to comply with the requirements of 40 CFR 63.163, the Permittee shall either: (1) Comply with the Phase III leak detection and repair requirements specified in 40 CFR 63.163, or (2) Alternately, the Permittee may comply with the requirements specified in 40 CFR 63.163 using methods specified in 40 CFR 63.163(e), (f), or (g). [62-204.800(10)(b), F.A.C.] [40 CFR 63.163]	If the 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. [62-204.800(10)(b), F.A.C.] [40 CFR 63.181 and .182]
O	Methylamines Plant No. 1 HON Equipment Leaks	Pressure relief devices. The 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 the 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. [62-204.800(10)(b), F.A.C.] [40 CFR	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 5 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 5 days after the release. [62-204.800(10)(b), F.A.C.] [40 CFR 63.165] [40 CFR 63.180]	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. [62-204.800(10)(b), F.A.C.] [40 CFR 63.181 and .182]

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Permit Section III ID. No.	Description	Condition/Limitation	Compliance Testing / Demonstration Requirement(s)	Recordkeeping/ Reporting Requirement(s)
		63.165]		
O	Methylamines Plant No. 1 HON Equipment Leaks	Open-ended valves or lines. The Permittee shall comply with requirements set forth in 40 CFR 63.167 for open-ended lines that have been designated by the Permittee to be in organic hazardous air pollutant service for 300 or more hours per year. [62-204.800(10)(b), F.A.C.] [40 CFR 63.167]	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) and (e), which are exempt. The Permittee shall also comply with work and operating practices specified in 40 CFR 63.167(a)(2), (b), and (c). [62-204.800(10)(b), F.A.C.] [40 CFR 63.167]	The 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.[62-204.800(10)(b), F.A.C.] [40 CFR 63.181 and .182]
O	Methylamines Plant No. 1 HON Equipment Leaks	Valves. The 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 the Permittee to be in organic hazardous air pollutant light liquid/gas service for 300 or more hours per year. [62-204.800(10)(b), F.A.C.] [40 CFR 63.168]	The Permittee shall inspect and repair valves according to the criteria specified in 40 CFR 63.168. [62-204.800(10)(b), F.A.C.] [40 CFR 63.165] [40 CFR 63.180]	Records shall be maintained in accordance with 40 CFR 63.181(b)(1)(i) and (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. [62-204.800(10)(b), F.A.C.] [40 CFR 63.181 and .182]
O	Methylamines Plant No. 1 HON Equipment Leaks	Connectors. The 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 the Permittee to be in organic hazardous air pollutant light liquid/gas service for 300 or more hours per year.[62-204.800(10)(b), F.A.C.] [40 CFR 63.174]	The Permittee shall inspect and repair connectors according to the criteria specified in 40 CFR 63.174. [62-204.800(10)(b), F.A.C.] [40 CFR 63.174]	Records shall be maintained in accordance with 40 CFR 63.181(b)(1)(i) and (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. [62-204.800(10)(b), F.A.C.] [40 CFR 63.181 and .182]
O	Methylamines Plant No. 1 HON Equipment Leaks	Sampling Points. The Permittee shall meet the criteria set forth in 40 CFR 63.166 for sampling points in organic hazardous	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	The Permittee shall maintain records specified in 40 CFR 63.181(b)(1)(i) and no periodic reporting shall be required.

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Permit Section III ID. No.	Description	Condition/Limitation	Compliance Testing / Demonstration Requirement(s)	Recordkeeping/ Reporting Requirement(s)
		service that have been designated by the Permittee to be in organic hazardous air pollutant service for 300 or more hours per year. [62-204.800(10)(b), F.A.C.] [40 CFR 63.166]	sampling system shall meet one of the specifications specified in 40 CFR 63.166(b). [62-204.800(10)(b), F.A.C.][40 CFR 63.166]	[62-204.800(10)(b), F.A.C.][40 CFR 63.181]
P	Methylamines Plants Nos. 1&4 HON Group 2 Storage Tank	For the Group 2 storage vessel (TK-67101), the Permittee shall comply with the recordkeeping requirements of 40 CFR 63.123(a). [62-204.800(10)(b), F.A.C.] [40 CFR 63.119(a)(3)]	The Permittee shall keep records showing the dimensions of the storage vessel and an analysis showing the capacity of the vessel. The Permittee is not required to comply with any other provisions of 40 CFR 63.119 through 40 CFR 63.123. [62-204.800(10)(b), F.A.C.] [40 CFR 63.123(a)]	See "Compliance Demonstration" column.
Q	Methylamines Plant No. 1 NSPS Storage Tanks	The Methylamines Plant No. 1 NSPS Storage Tanks shall vent through a closed loop vent system followed by a control device designed and operated to reduce inlet emissions of VOC by 95 percent. [62-204.800(7)(b)16, F.A.C.] [40 CFR 60.112b(a)(3)(i)]	Emissions from the storage tanks shall be vented to the Amines Plants Flare, 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. [62-204.800(7)(b)16, F.A.C.] [40 CFR 60.112b(a)(3)(ii)]	Periodic reports on flare operation and closed vent system inspections will be submitted (see "Amines Plant Flare" and "Common Requirements" for specifics)
Q	Methylamines Plant No. 1 NSPS Storage Tanks	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 Part 60 Subpart VV, 40 CFR 60.485(b). [62-204.800(7)(b)(16), F.A.C.; 40 CFR 60.112b(a)(3)(i)]	Records of tank design will be maintained in accordance with Permit Condition No. OO.20, (Storage Tank Recordkeeping Requirements).	Report/keep recordings of information specified in "Compliance Testing/Demonstration Requirement(s)" column.
R	Higher Amines Plant Gas-Fired Heater	The maximum allowable operating rate of the Methylamines Gas-Fired Heater 8.4 MM Btu/hr.	The gas-fired heater heat capacity will be calculated from the measured flow of natural gas to the heater and the average higher heating value of natural gas.	The Permittee shall maintain records of operation. The annual 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 natural gas. [62-213.440(1), F.A.C.]

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Permit Section III ID. No.	Description	Condition/Limitation	Compliance Testing / Demonstration Requirement(s)	Recordkeeping/ Reporting Requirement(s)
R	Higher Amines Plant Gas-Fired Heater	Visible emissions shall be less than 20% at all times. [62-296.320(4)(b), F.A.C.]	EPA Method 9 testing of the Higher Amines Plant Gas-Fired Heater stacks shall be conducted once during the final twelve months of the permit term. [62-297.310(7)(a)3, F.A.C.] [AO-179664, SC #17)	The Permittee shall maintain records of EPA Method 9 compliance tests for this source for five years. [62-213.440(1), F.A.C.]
S	72" Batch Column Process Vent	Common Condition Nos. HH.8 and 10	Common Condition No.HH.8	40 CFR 63.2525(e) and 63.2520, Common Condition No. HH.8 and 9
T	72" Batch Column Maintenance Wastewater	The Permittee shall prepare a description of 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: (1) specify the process equipment or maintenance tasks that are anticipated to create wastewater during maintenance activities, (2) specify procedures that will be followed to properly manage the wastewater and control organic HAP emissions to the atmosphere, and (3) specify the procedures to be followed when clearing materials from process equipment. The Permittee shall modify and update the maintenance procedures as needed. [62-204.800(10)(b), F.A.C.] [40 CFR 63.105(b) and (c)]	The 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 Part 63 standards no longer apply to the source. No notification or periodic reporting of maintenance wastewater activities is required. [62-204.800(10)(b), F.A.C.] [40 CFR 63.105(d)]	See requirements specified in "Compliance Testing/Demonstration Requirement(s)" column.
U	72" Batch Column Equipment Leaks	The same permit conditions specified for Methylamines Plant No. 1 HON Equipment Leaks will apply to the Higher Amines Plant HON Equipment Leaks for the following types of equipment: • Pumps in light liquid service • Sampling connection systems • Open-ended valves or lines • Valves in gas/vapor service and in	Refer to Methylamines Plant No. 1 HON Equipment Leaks	Refer to Methylamines Plant No. 1 HON Equipment Leaks

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Permit Section III ID. No.	Description	Condition/Limitation	Compliance Testing / Demonstration Requirement(s)	Recordkeeping/ Reporting Requirement(s)
		light liquid service • Connectors in gas/vapor service and in light liquid service • Surge control vessels		
V	72" Batch Column Group 2 Storage Tanks	For each Group 2 storage vessel (D-69101A, B, C and D), the Permittee shall comply with the recordkeeping requirements of 40 CFR 63.123(a). [62-204.800(10)(b), F.A.C.] [40 CFR 63.119(a)(3)]	The Permittee shall keep records showing the dimensions of each storage vessel and an analysis showing the capacity of each vessel. The Permittee is not required to comply with any other provisions of 40 CFR 63.119 through 40 CFR 63.123. [62-204.800(10)(b), F.A.C.] [40 CFR 63.123(a)]	See "Compliance Demonstration" column.
W	72" Batch Column Wastewater	From April 22, 1999, the Permittee shall comply with requirements set forth in 40 CFR 63.132(a)(1) through (a)(3), which requires that the Permittee determine whether a wastewater emission source is a Group 1 or Group 2 stream. For Group 2 streams, the Permittee shall comply with the recordkeeping requirements of 40 CFR 63.146. [62-204.800(10)(b), F.A.C.] [40 CFR 63.132(a)]	If the Permittee uses process knowledge to determine the annual average concentration of a wastewater stream and/or the annual average flowrate used to determine that a wastewater stream is not a Group 1 stream, the Permittee shall keep in a readily accessible location the documentation of how process knowledge was used. [62-204.800(10)(b), F.A.C.] [40 CFR 63.146(f)]	Maintain records of information specified in "Compliance Demonstration" Column.
X	72" Batch Column Group 2 Transfer Rack	This transfer rack is limited to loading no more than 0.65 million liters/year of liquids that contain organic HAP with a rack-weighted average partial pressure, as defined in Sec. 63.111, greater than or equal to 1.5 pound per square inch absolute. [40 CFR 63.2550(i)-definition of "Group 2 Transfer Rack"]	N.A.	Submit compliance report containing the information specified in § 63.2520(e). Report to be submitted semiannually according to the requirements in § 63.2520(b).
Y	Methylamines Plant No. 4 Gas-Fired Heater	The maximum allowable operating rate of the Methylamines Plant 4 Gas-Fired Heater is 10 MM Btu/hr.	The gas-fired heater heat capacity will be calculated from the measured flow of natural gas to the heater and the average higher heating value of natural gas.	The Permittee shall maintain records of operation. The annual 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 natural gas. [62-213.440(1), F.A.C.]
Y	Methylamines Plant	Visible emissions shall be less than 20% at	EPA Method 9 testing shall be conducted once during permit term at 90	Results of testing reported to the Department

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Permit Section III ID. No.	Description	Condition/Limitation	Compliance Testing / Demonstration Requirement(s)	Recordkeeping/ Reporting Requirement(s)
	No. 4 Gas-Fired Heater	all times. [62-296.320(4)(b), F.A.C.]	to 100 percent of the maximum design firing rate of 10 million Btu per hour. The test shall be performed within the final twelve months of the permit term. [62-297(7)(a)3, F.A.C.]	within 45 days after testing and must contain, at a minimum, information required in [62-297.310(8), F.A.C.].
Z	Methylamines Plant No. 4 Process Vents	The Permittee shall reduce emissions of organic hazardous air pollutants (i.e., chemicals listed in Table 2 of 40 CFR Part 60 Subpart F) using a vapor collection system and flare meeting the criteria of 40 CFR 63.11(b). [62-204.800(10)(b), F.A.C.] [40 CFR 63.113(a)(1)]	Intermittent organic hazardous air pollutant emissions from Methylamines Plant No. 4 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. [62-204.800(10)(b), F.A.C.] [40 CFR 63.113(a)(1)]	Continuous records of flare operation shall be maintained and periodic reports on flare operation shall be submitted (see "Amines Plant Flare"). [62-204.800(10)(b), F.A.C.] [40 CFR 63.118] [40 CFR 63.152(c)(4)(C)]
AA	Methylamines Plant No. 4 Wastewater	The Permittee shall comply with requirements set forth in 40 CFR 63.132(a)(1) through (a)(3), which requires that the Permittee determine whether a wastewater emission source is a Group 1 or Group 2 stream. For Group 2 streams, the Permittee shall comply with the recordkeeping requirements of 40 CFR 63.146. [62-204.800(10)(b), F.A.C.] [40 CFR 63.132(a)]	If the Permittee uses process knowledge to determine the annual average concentration of a wastewater stream and/or the annual average flowrate used to determine that a wastewater stream is not a Group 1 stream, the Permittee shall keep in a readily accessible location the documentation of how process knowledge was used. [62-204.800(10)(b), F.A.C.] [40 CFR 63.147]	Maintain records of information specified in "Compliance Demonstration" Column.
BB	Methylamines Plant No. 4 HON Maintenance Wastewater	The Permittee shall maintain a description of 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: (1) specify the process equipment or maintenance tasks that are anticipated to create wastewater during maintenance activities, (2) specify procedures that will be followed to properly manage the wastewater and control organic HAP emissions to the atmosphere, and (3) specify the procedures to be followed when	The 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 Part 63 standards no longer apply to the source. No notification or periodic reporting of maintenance wastewater activities is required. [62-204.800(10)(b), F.A.C.] [40 CFR 63.105(d)]	See requirements specified in "Compliance Testing/Demonstration Requirement(s)" column.

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Permit Section III ID. No.	Description	Condition/Limitation	Compliance Testing / Demonstration Requirement(s)	Recordkeeping/ Reporting Requirement(s)
		clearing materials from process equipment. The Permittee shall modify and update the maintenance procedures as needed. [62-204.800(10)(b), F.A.C.] [40 CFR 63.105(b) and (c)]		
CC	Methylamines Plant No. 4 HON Equipment Leaks	The same permit conditions specified for Methylamines Plant No. 1 HON Equipment Leaks will apply to the Methylamines Plant No. 4 HON Equipment Leaks for the following types of equipment: • Pressure relief devices in gas/vapor service • Sampling points • Open-ended valves or lines • Valves in gas/vapor service and in light liquid service • Connectors in gas/vapor service and in light liquid service	Refer to Methylamines Plant No. 1 HON Equipment Leaks. Relevant options will refer to compliance with Phase III upon startup of the plant.	Refer to Methylamines Plant No. 1 HON Equipment Leaks. Relevant options will refer to compliance with Phase III upon startup of the plant.
DD	Methylamines Plant No. 4 VOC Equipment Leaks	Pressure relief devices. The Permittee shall comply with the requirements set forth in 40 CFR 60.482-4 for pressure relief devices in gas/vapor service. The Permittee shall comply with the requirements set forth in 40 CFR 60.482-8 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(7)(b)(51), F.A.C.; 40 CFR 60.482-4 and 482-8]	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 60.485(c), as soon as practicable, but no later than 5 days after the release. [Rule 62-204.800(7)(b)(51), F.A.C.; 40 CFR 60.482-4 and 60.485]	Records shall be maintained in accordance with 40 CFR 60.486(b)(1) and (c). Periodic reports containing relevant information specified in 40 CFR 60.487(c) shall be submitted to the Department. [Rule 62-204.800(7)(b)(51), F.A.C.; 40 CFR 60.486]
DD	Methylamines Plant No. 4 VOC Equipment Leaks	Open-ended valves or lines. The Permittee shall comply with requirements set forth in 40 CFR 60.482-6 for open-ended lines that have been designated by the Permittee to be in organic hazardous air pollutant service for 300 or more hours per year. [Rule 62-204.800(7)(b)(51), F.A.C.; 40 CFR 60.482-6]	Open-ended valves or lines. Each open-ended valve or line shall be equipped with a cap, blind flange, plug, or a second valve. The Permittee shall also comply with work and operating practices specified in 40 CFR 60.482-6(a)(2), (b), and (c). [Rule 62-204.800(7)(b)(51), F.A.C.; 40 CFR 60.482-6]	Valves. Records shall be maintained in accordance with 40 CFR 60.486(b)(1) and (c). Records shall also be maintained in accordance with 40 CFR 60.486(f) for every valve subject to the requirements of § 60.482-7(g) and (h). Periodic reports containing relevant information specified in 40 CFR 60.487(c) shall be submitted to the Department. [Rule 62-204.800(7)(b)(51), F.A.C.; 40 CFR 60.486]

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Permit Section III ID. No.	Description	Condition/Limitation	Compliance Testing / Demonstration Requirement(s)	Recordkeeping/ Reporting Requirement(s)
DD	Methylamines Plant No. 4 VOC Equipment Leaks	Valves. The Permittee shall comply with the requirements set forth in 40 CFR 60.482-7 for valves in light liquid or gas/vapor service. [Rule 62-204.800(7)(b)(51), F.A.C.; 40 CFR 60.482-7]	Valves. The Permittee shall inspect and repair valves in light liquid or gas/vapor service according to the criteria specified in 40 CFR 60.482-7. The Permittee may elect to reduce the frequency of inspection in accordance with 40 CFR 60.483-2(b) after providing the Department with the appropriate notification as defined in 40 CFR 60.483-2(a) and 487(b). The Permittee shall inspect and repair valves in heavy liquid service according to the criteria specified in 40 CFR 60.482-8 [Rule 62-204.800(7)(b)(51), F.A.C.; 40 CFR 60.482-7, 60.482-8 and 60.483-2]	Valves. Records shall be maintained in accordance with 40 CFR 60.486(b)(1) and (c). Records shall also be maintained in accordance with 40 CFR 60.486(f) for every valve subject to the requirements of § 60.482-7(g) and (h). Periodic reports containing relevant information specified in 40 CFR 60.487(c) shall be submitted to the Department. [Rule 62-204.800(7)(b)(51), F.A.C.; 40 CFR 60.486]
DD	Methylamines Plant No. 4 VOC Equipment Leaks	Flanges and Connectors. The Permittee shall comply with the requirements set forth in 40 CFR 60.482-8 for flanges and connectors. [Rule 62-204.800(7)(b)(51), F.A.C.; 40 CFR 60.482-8]	Connectors. The Permittee shall inspect and repair connectors according to the criteria specified in 40 CFR 60.482-8. [Rule 62-204.800(7)(b)(51), F.A.C.; 40 CFR60.482-8]	Connectors. Records shall be maintained in accordance with 40 CFR 60.486(b)(1) and (c). Periodic reports containing relevant information specified in 40 CFR 60.487(c) shall be submitted to the Department. [Rule 62-204.800(7)(b)(51), F.A.C.; 40 CFR 60.486]
DD	Methylamines Plant No. 4 VOC Equipment Leaks	Sampling Points. The Permittee shall meet the criteria set forth in 40 CFR 60.482-5 for sampling points. [Rule 62-204.800(7)(b)(51), F.A.C.; 40 CFR 60.482-5]	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 60.482-5(b). [Rule 62-204.800(7)(b)(51), F.A.C.; 40 CFR60.482-5]	
DD	Methylamines Plant No. 4 VOC Equipment Leaks			Recordkeeping Requirements for All Equipment in VOC Service. Records shall be maintained for all equipment subject to 40 CFR 60.482-1 to 482-10 in accordance with the requirements of 40 CFR 60.486(e). [Rule 62-204.800(7)(b)(51), F.A.C.; 40 CFR 60.486] Components Not in VOC Service. The Permittee shall maintain records specified in 40 CFR 60.486(j) for any equipment considered not in VOC service. [Rule 62-204.800(7)(b)(51), F.A.C.; 40 CFR 60.486] Semiannual Reporting. The Permittee shall submit reports on a semi-annual basis to the Department in accordance with the requirements of 40 CFR 60.487.

TABLE 1
SUMMARY OF APPLICABLE REQUIREMENTS AND COMPLIANCE PROCEDURES
TAMINCO, INC. – TAMINCO PACE PLANT

Permit Section III ID. No.	Description	Condition/Limitation	Compliance Testing / Demonstration Requirement(s)	Recordkeeping/ Reporting Requirement(s)
				[Rule 62-204.800(7)(b)(51), F.A.C.; 40 CFR 60.487] <u>Performance Test Reporting</u>. The Permittee shall report the results of all performance tests in accordance with 40 CFR 60.8. The provisions of 4 CFR 60.8(d) do not apply to affected facilities subject to the provisions of this subpart except that an owner or operator must notify the Administrator of the schedule for the initial performance tests at least 30 days before the initial performance tests. [Rule 62-204.800(7)(b)(51), F.A.C.; 40 CFR 60.487]
EE	PDL Incinerator Stack[1]	Vent gases and waste liquids from the PDL may be incinerated in a thermal incinerator. Non-hazardous, non-toxic liquid waste streams may also be incinerated. The incinerator shall maintain a temperature of at least 1800°F at the exit of the combustion chamber during incineration or charging of wastes. The maximum charge rate of liquid and gaseous wastes is 1,546 lb/hr. [62-210.300(2)(a), F.A.C.] [AO57-178990, SC #15, #16, #18]	EPA Method 9 testing shall be done in any calendar year in which the Incinerator is used. Testing may be performed while the unit is being used. Monitoring shall be conducted in accordance with the manufacturer's instructions to record the combustion exit temperature. [62-210.300(2)(a), F.A.C.] [AO57-178990, SC #19]	Maintain records of initial performance testing and engineering analyses indicating the maximum input to the incinerator. Maintain records of wastes being burned. [62-210.300(2)(a), F.A.C.]
EE	PDL Operation[1]	In lieu of incineration, the Permittee may control gaseous emissions from PDL emission sources using the Croll-Reynolds Fume Scrubber described in AC57-158441. [62-210.300(2)(a), F.A.C.]	Opacity of less than 20% shall be maintained from the scrubber at all times. An EPA method 9 test shall be conducted in each year that the scrubber is used. The scrubber shall be operated in accordance with the permit application submitted for scrubber operation. [62-210.300(2)(a), F.A.C.]	None.
EE	PDL Incinerator Stack	Visible emissions shall not exceed 5% opacity except that up to 20% shall be allowed for no more than three minutes in any one hour. [62-296.401(a), F.A.C.] [AO57-178990 SC #17]	EPA Method 9 testing shall be conducted on the PDL Incinerator Stack in any year in which it is operated. Testing will be conducted within 30 days of start-up under typical waste charging conditions. [62-296.320(4)(a), F.A.C.] [AO57-178990, SC #20]	Results of testing reported to the Department within 45 days after testing and must contain, at a minimum, information required in [62-297.310(8), F.A.C.]
FF	Prill Tower - 10 Exhaust Fans & Scrubber Exhaust Vent	Maximum allowable operating rate is 37.83 tons/hr, averaged daily, of ammonium nitrate prills. [62-213.440(1), F.A.C.] [AO57-179661, SC #15]	Production rate shall be calculated from the measured flow of ammonium nitrate to the high concentrator.	Maintain records of operation. Annual production rate shall be calculated semiannually for the previous 12-month period. [62-4.070(3) & 62-213.440, F.A.C]

TABLE 1
SUMMARY OF APPLICABLE REQUIREMENTS AND COMPLIANCE PROCEDURES
TAMINCO, INC. – TAMINCO PACE PLANT

Permit Section III ID. No.	Description	Condition/Limitation	Compliance Testing / Demonstration Requirement(s)	Recordkeeping/ Reporting Requirement(s)
FF	Prill Tower - 10 Exhaust Fans & Scrubber Exhaust Vent	Total maximum emissions of PM from the Prill Tower, Heil Scrubber and the CHEAF unit shall not exceed: (1) $E = 3.59 * P^{0.62}$ for P<30 ton/hr or (2) $E = 17.31 * P^{0.16}$ for P>30 ton/hr. E = emissions in lb/hr and P = process rate in tons per hour [17-296.320(4)(a)(2), F.A.C.] [AO57-242894, SC#3]	EPA Method 5 testing shall be conducted annually during the federal fiscal year (October 1 – September 30) on the Prill Tower and the Heil Scrubber. [62-297.310(7)(a)(4), F.A.C.]	Results of testing reported to the Department within 45 days after testing and must contain, at a minimum, information required in [62-297.310(3), F.A.C.].
GG	Ammonia Nitrate Plant 83%	Maximum allowable operating rate is 91,600 pounds per hour (basis 100%), averaged daily, of 83% ammonium nitrate solution. [62-213.440(1), F.A.C.] [AO57-179661, SC #15]	The production rate shall be calculated from daily operating records.	Maintain records of operation. Annual production rate shall be calculated semiannually for the previous 12-month period. [62-4.070(3) & 62-213.440, F.A.C]
GG	Ammonia Nitrate Plant 83%	Maximum allowable ammonia emissions are 4.0 lb/ton of 83% ammonium nitrate product.[1] [62-210-200(124)] [AO57-179661, SC #16]	EPA method 320 shall be used to conduct ammonia compliance tests each federal fiscal year (October 1 – September 30). [Rules 62-297.310(7)(a)(4), F.A.C.]	Results of testing reported to the Department within 45 days after testing and must contain, at a minimum, information required in [62-297.310(3), F.A.C.][1]
GG	Ammonia Nitrate Plant 83%	Maximum allowable ammonium nitrate emissions are 3.0 lb/ton of 83% ammonium nitrate product. [62-210-200(124)] [AO57-179661, SC #16]	EPA method 18 shall be used to conduct ammonium nitrate compliance tests each federal fiscal year (October 1 – September 30). [Rules 62-297.310(7)(a)(4), F.A.C.]	Results of testing reported to the Department within 45 days after testing and must contain, at a minimum, information required in [62-297.310(3), F.A.C.].
HH	Ammonium Nitrate CHEAF Unit	Total maximum allowable emission rate of PM from the Prill Tower and the CHEAF Unit shall not exceed: (1) $E = 3.59 * P^{0.62}$ for P<30 ton/hr or (2) $E = 17.31 * P^{0.16}$ for P>30 ton/hr. E = emissions in lb/hr and P = process rate in tons per hour [17-296.320(4)(a)(2), F.A.C.] [AO57-242894, SC#3]	EPA Method 9 testing to be conducted once during the last year of the permit term. [AO57-57-242894] No EPA Method 5 required if visible emissions from the CHEAF Unit are less than 5% opacity, demonstrating insignificant contribution to total allowed emission rate. If over 5% opacity, Method 5 stack testing required within 60 days. Should a Method 5 Test need to be conducted, the Permittee shall conduct a Method 5 test, sequentially, on the CHEAF unit, Prill Tower, and the Heil Scrubber. [62-297.310(7)(a)(4), F.A.C.]	Results of visible emissions testing to be submitted to FDEP with the application for renewal of Part 70 operating permit.

Notes: 1) State-only requirement.
2) In the case of conflict between this table and the permit, the permit shall take precedence over the table.