



Missouri Department of Natural Resources
Air Pollution Control Program

INTERMEDIATE STATE PERMIT TO OPERATE

Under the authority of RSMo 643 and the Federal Clean Air Act the applicant is authorized to operate the air contaminant source(s) described below, in accordance with the laws, rules, and conditions set forth here in.

Intermediate Operating Permit Number: OP2010-015
Expiration Date: FEB 02 2015
Installation ID: 145-0044
Project Number: 2006-12-038

Installation Name and Address

Premier Turbines
3551 Doniphan Drive
Neosho, MO 64850
Newton County

Parent Company's Name and Address

Dallas Airmotive Inc
900 Nolen Drive Suite 100
Grapevine, Texas 76051

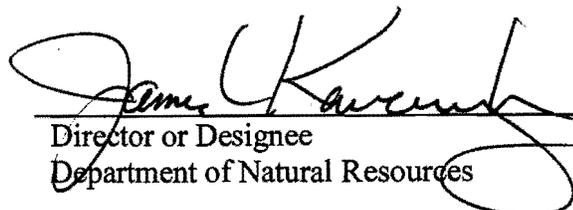
Installation Description:

Premier Turbines overhauls, repairs, and tests both commercial and government turbine engines. Operations include degreasing, plasma/flame spraying, painting, electroplating, and engine testing. In addition, two dual-fuel boilers and one natural gas fired boiler are operated at the installation.

The installation has accepted voluntary, federally enforceable emission limits of less than 100 tons of Particulate Matter less than 10 microns (PM₁₀), Sulfur Oxides (SO_x), Nitrogen Oxides (NO_x), Volatile Organic Compounds (VOC), and Carbon Monoxides (CO) in any consecutive 12-month period, as well as, less than 10 tons of any individual Hazardous Air Pollutant (HAP) and 25 tons of combined HAPs in any consecutive 12-month period in order to qualify for an Intermediate State Operating Permit.

FEB 03 2010

Effective Date



Director or Designee
Department of Natural Resources



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I. Installation Description and Equipment Listing

INSTALLATION DESCRIPTION

Premier Turbines overhauls, repairs, and tests both commercial and government turbine engines. Operations include degreasing, plasma/flame spraying, painting, electroplating, and engine testing. In addition, two dual-fuel boilers and one natural gas fired boiler are operated at the installation. The installation has accepted voluntary, federally enforceable emission limits of less than 100 tons of Particulate Matter less than 10 microns (PM₁₀), Sulfur Oxides (SO_x), Nitrogen Oxides (NO_x), Volatile Organic Compounds (VOC), and Carbon Monoxides (CO) in any consecutive 12-month period, as well as, less than 10 tons of any individual Hazardous Air Pollutant (HAP) and 25 tons of combined HAPs in any consecutive 12-month period in order to qualify for an Intermediate State Operating Permit.

Reported Air Pollutant Emissions, tons per year							
Year	Particulate Matter ≤ Ten Microns (PM-10)	Sulfur Oxides (SO _x)	Nitrogen Oxides (NO _x)	Volatile Organic Compounds (VOC)	Carbon Monoxide (CO)	Lead (Pb)	Hazardous Air Pollutants (HAPs)
2008	0.70	0.94	15.53	23.21	12.45	--	--
2007	0.69	1.03	15.72	18.15	12.59	--	--
2006	0.68	1.29	15.27	15.93	12.07	--	2.76
2005	0.46	2.28	13.68	17.79	10.07	--	2.51
2004	0.12	1.86	7.17	9.51	5.87	--	0.48

EMISSION UNITS WITH LIMITATIONS

The following list provides a description of the equipment at this installation which emits air pollutants and identified as having unit-specific emission limitations.

<u>Emission Unit #</u>	<u>Description of Emission Unit</u>	<u>2007 EIQ EP#</u>
EU0010	Finishing Area Abrasive Blasting - Kelco 110 Shot	NA
EU0020	Finishing Area Abrasive Blasting - Kelco Blast Cabinet	NA
EU0030	Finishing Area Abrasive Blasting - ICM Glass Bead	NA
EU0040	Wheelabrator Unit	NA
EU0050	Devilbiss Paint Booth	P-3A
EU0060	Sermetel Paint Booth	NA
EU0070	Hard Chrome Electroplating	P-3G
EU0080	Test Cell 6	P-5A
EU0090	Test Cell 5	P-5B
EU0100	Test Cell 2	P-5D
EU0110	Test Cell 1	P-5E
EU0120	Erie City Boiler 1	P-6A
EU0130	Erie City Boiler 2	P-6B
EU0140	Manual Thermal Spray Station 1	P-30A
EU0150	Manual Thermal Spray Station 2	P-30B
EU0160	Robotic Flame Spray Station	NA
EU0170	Tank 11	NA
EU0180	Tanks 9A and 9B	NA
EU0190	Tank 65	NA
EU0200	Tank 68	NA
EU0210	Tank 26	NA
EU0220	Cyanide Rinse Tank	NA
EU0230	Tank 48	NA
EU0240	Cooper Post Rinse Tank	NA
EU0250	Nitric Acid Tank	NA
EU0260	Electroless Nickel Heat Tank	NA
EU0270	Surface Preparation Operation Using MeCl	P-3E

EMISSION UNITS WITHOUT LIMITATIONS

The following list provides a description of the equipment, which does not have unit specific limitations at the time of permit issuance.

<u>Description of Emission Source</u>	<u>2007 EIQ EP-#</u>
Superior Boiler, natural gas-fired, 2.4 MMBtu/hr	P-6C
Degreasing Tank (Bearings)	P-1E
Bearing Room Cleaning and Surface Preparation Line	NA
Miscellaneous Solvent Degreasing	P-32
Vapor Degreaser	P-31
Non-Destructive Testing (NDT) Operations	NA
Surface Preparation Operations (non-MeCl) - emission units that are not subject to 40 CFR Part 60 Subpart WWWW	P-3E
Flow Bench Operations (fugitive indoor)	P-4 B, P-4F, P-4G
Wastewater Treatment Tanks	NA
Jet Fuel 20,000-gallon AST	NA
Jet Fuel 22,800-gallon AST	NA
Two (2) Used Oil tanks, 275-gallons each	NA
Diesel 3,000-gallon AST	NA
Gasoline 250-gallon AST	NA
Calibration 70-gallon AST	NA
Industrial Process Cooling Towers, fugitive	NA
Production Weld Stations, fugitive	NA
Metal Finishing Operations - emission units that are not subject to 40 CFR Part 60 Subpart WWWW	NA
Sludge Dryer and Conveyor	NA
Tool Fabrication Shop	NA

DOCUMENTS INCORPORATED BY REFERENCE

This permit incorporates the following documents by reference:

- 1) Missouri Department of Natural Resources Construction Permit 1098-008, issued July 17, 1998
- 2) Missouri Department of Natural Resources Construction Permit 082000-023, issued August 24, 2000
- 3) Missouri Department of Natural Resources Construction Permit 032001-015, issued December 26, 2000
- 4) Missouri Department of Natural Resources Construction Permit 122004-009, issued December 20, 2004

II. Plant Wide Emission Limitations

The installation shall comply with each of the following emission limitations. Consult the appropriate sections in the Code of Federal Regulations (CFR) and Code of State Regulations (CSR) for the full text of the applicable requirements. All citations, unless otherwise noted, are to the regulations in effect on the date of permit issuance.

PERMIT CONDITION PW001

10 CSR 10-6.060 Construction Permits Required
Construction Permit 122004-009, Issued December 20, 2004
10 CSR 10-6.065(2)(C) and 10 CSR 10-6.065(5)(A) Voluntary Limitation(s)

Emission Limitations:

- 1) Premier Turbines shall emit less than ten (10) tons of individually and twenty-five (25) tons combined of hazardous air pollutants (HAPs) from the entire installation in any consecutive 12-month period. [Construction Permit 122004-009, Special Condition 7.B]
- 2) Premier Turbines shall emit less than 100 tons of volatile organic compounds (VOC) from the entire installation in any consecutive 12-month period. This voluntary limit supersedes the less restrictive VOC limit in Construction Permit 122004-009, Special Condition 7.A.

Monitoring/Recordkeeping:

Attachment A, Attachment B, Attachment C, and Attachment D, or equivalent forms approved by the Air Pollution Control Program shall be used to demonstrate compliance with this requirement. Premier Turbines shall maintain all records required by this permit condition for not less than five (5) years and shall make them available immediately to any Missouri Department of Natural Resources' personnel upon request. These records shall include Material Safety Data Sheets (MSDS) for all materials used at the installation. [Construction Permit 122004-009, Special Condition 7.C]

Reporting:

Premier Turbines shall report to the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, Missouri 65102, no later than ten (10) days after the end of the month during which the records required by this permit condition indicate that the source exceeds the emission limitation(s) of this permit condition. [Construction Permit 122004-009, Special Condition 7.D]

PERMIT CONDITION PW002

10 CSR 10-6.065(2)(C) and 10 CSR 10-6.065(5)(A) Voluntary Limitation(s)

Emission Limitations:

- 1) The permittee shall emit into the atmosphere less than 100 tons of particulate matter less than ten (10) microns in diameter (PM₁₀) from the entire installation in any consecutive 12-month period.
- 2) The permittee shall emit into the atmosphere less than 100 tons of sulfur oxides (SO_x) from the entire installation in any consecutive 12-month period.
- 3) The permittee shall emit into the atmosphere less than 100 tons of nitrogen oxides (NO_x) from the entire installation in any consecutive 12-month period.
- 4) The permittee shall emit into the atmosphere less than 100 tons carbon monoxide (CO) from the entire installation in any consecutive 12-month period.

Monitoring/Recordkeeping:

- 1) The permittee shall calculate the emissions of PM₁₀ from all PM₁₀ emitting units each month and show that the total emissions of PM₁₀ from any consecutive 12-month period are below 100 tons.
- 2) The permittee shall calculate the emissions of SO_x from all SO_x emitting units each month and show that the total emissions of SO_x from any consecutive 12-month period is below 100 tons.
- 3) The permittee shall calculate the emissions of NO_x from all NO_x emitting units each month and show that the total emissions of NO_x from any consecutive 12-month period are below 100 tons.
- 4) Attachment E, Attachment F, Attachment G and Attachment H or equivalent forms approved by the Air Pollution Control Program shall be used to demonstrate compliance with this requirement.
- 5) Premier Turbines shall maintain all records required by this permit condition for not less than five (5) years and shall make them available immediately to any Missouri Department of Natural Resources' personnel upon request. These records shall include Material Safety Data Sheets (MSDS) for all materials used at the installation.

Reporting:

Premier Turbines shall report to the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, Missouri 65102, no later than ten (10) days after the end of the month during which the records required by this permit condition indicate that the source exceeds any of the emission limitation(s) of this permit condition

III. Emission Unit Specific Emission Limitations

The installation shall comply with each of the following emission limitations. Consult the appropriate sections in the Code of Federal Regulations (CFR) and Code of State Regulations (CSR) for the full text of the applicable requirements. All citations, unless otherwise noted, are to the regulations in effect on the date of permit issuance.

EU0010 THROUGH EU0030 – FINISHING AREA ABRASIVE BLASTING OPERATIONS EU0040 – WHEELABRATOR UNIT			
Emission Unit	Description	Manufacturer /Model #	2007 EIQ Reference #
EU0010	Finishing Area Abrasive Blasting - Kelco 110 Shot: MHDR 2.8 lb/min; equipped with cyclone in series with fabric filter	Kelco	NA
EU0020	Finishing Area Abrasive Blasting - Kelco Blast Cabinet: MHDR 3.9 lb/min; equipped with cyclone in series with fabric filter	Kelco	NA
EU0030	Finishing Area Abrasive Blasting - ICM Glass Bead: MHDR 1.7 lb/min; equipped with cyclone in series with fabric filter	ICM	NA
EU0040	Wheelabrator Unit: MHDR 24,000 lb/hr; equipped with dust tube collector; construction date 1982	Wheelabrator	NA

PERMIT CONDITION (EU0010 through EU0040)-001
10 CSR 10-6.220 Restriction of Emission of Visible Air Contaminants

Emission Limitations:

- 1) No owner or other person shall cause or permit to be discharged into the atmosphere from any new source any visible emissions with an opacity greater than 20%.
- 2) Exception: A person may discharge into the atmosphere from any source of emissions for a period(s) aggregating not more than six (6) minutes in any 60 minutes air contaminants with an opacity up to 60%.

Monitoring:

- 1) The permittee shall conduct opacity readings on these emission units using the procedures contained in U.S. EPA Test Method 22. At a minimum, the observer should be trained and knowledgeable about the effects on visibility of emissions caused by background contrast, ambient lighting, observer position relative to lighting, wind and the presence of uncombined water. Readings are only required when the emission unit is operating and when the weather conditions allow. If no visible or other significant emissions are observed using these procedures, then no further observations would be required. For emission units with visible emissions perceived or believed to exceed the applicable opacity standard, the source representative would then conduct a Method 9 observation.
- 2) The following monitoring schedule must be maintained:
 - a) Weekly observations shall be conducted for a minimum of eight (8) consecutive weeks after permit issuance. Should no violation of this regulation be observed during this period then-
 - b) Observations must be made once every two (2) weeks for a period of eight (8) weeks. If a violation is noted, monitoring reverts to weekly. Should no violation of this regulation be observed during this period then-
 - c) Observations must be made once per month. If a violation is noted, monitoring reverts to weekly.

- 3) If the source reverts to weekly monitoring at any time, monitoring frequency will progress in an identical manner from the initial monitoring frequency.

Recordkeeping:

- 1) The permittee shall maintain records of all observation results (see Attachment I-1 or I-2), noting:
 - a) Whether any air emissions (except for water vapor) were visible from the emission units,
 - b) All emission units from which visible emissions occurred, and
 - c) Whether the visible emissions were normal for the process.
- 2) The permittee shall maintain records of any equipment malfunctions. (see Attachment J)
- 3) The permittee shall maintain records of any Method 9 test performed in accordance with this permit condition. (see Attachment K)
- 4) Attachments I-1, I-2, J and K contain logs including these recordkeeping requirements. These logs, or equivalent forms created by the permittee, must be used to certify compliance with this requirement.
- 5) All records shall be maintained for five (5) years. They shall be kept onsite for at least two (2) years. They may be kept in either hard-copy form or on computer media.
- 6) These records shall be made available immediately for inspection to the Department of Natural Resources' personnel upon their verbal request and presentation of identification.

Reporting:

- 1) The permittee shall report to the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than ten (10) days after the permittee determined using the Method 9 test that the emission unit exceeded the opacity limit.
- 2) The permittee shall report any deviations/exceedances of this permit condition using the semi-annual monitoring report and annual compliance certification to the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, as required by 10 CSR 10-6.065(5)(C)1.B.

PERMIT CONDITION (EU0010 through EU0040)-002

10 CSR 10-6.400 Restriction of Emission of Particulate Matter from Industrial Processes

Emission Limitations:

- 1) Particulate matter shall not be emitted from Finishing Area Abrasive Blasting Operations (EU0010 through EU0030) in excess of 1.63 pounds per hour.
- 2) Particulate matter shall not be emitted from Wheelabrator Unit (EU0040) in excess of 21.67 pounds per hour.
- 3) The concentration of particulate matter in the exhaust gases shall not exceed 0.30 grains per standard cubic feet of exhaust gases.

Monitoring:

- 1) Finishing Area Abrasive Blasting Operations (EU0010 through EU0030) and Wheelabrator Unit (EU0040) shall not be operated unless the associated control devices are in operation.
- 2) All instruments and pollution control equipment shall be operated as specified by the manufacturer's specifications.
- 3) The permittee shall perform periodic maintenance on the pollution control equipment such that the pollution control equipment is kept in proper working condition.

Recordkeeping:

- 1) The permittee shall maintain a written record of all observations, deficiencies and any action resulting from inspections. Attachment J contains a log including these recordkeeping requirements. This log, or an equivalent form created by the permittee, must be used to certify compliance with this requirement.
- 2) Records may be kept in either written or electronic format. The permittee shall maintain all records required by this permit for not less than five (5) years and shall make them available immediately to any Missouri Department of Natural Resources' personnel upon request.

Reporting:

The permittee shall report any deviations/exceedances of this permit condition using the semi-annual monitoring report and annual compliance certification to the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, as required by 10 CSR 10-6.065(5)(C)1.B.

EU0050 AND EU0060 – PAINT BOOTHS			
Emission Unit	Description	Manufacturer/Model #	2007 EIQ Reference #
EU0050	Devilbiss Paint Booth: production paint booth; MHDR 1.79 gal/hr; vented to water wall scrubber (CD-3A); construction date 1982	Booth: Turboclean, Spray Gun: Devilbiss	P-3A
EU0060	Sermetel Paint Booth: MHDR 0.86 gal/hr; vented to dry filter (CD-3B); construction date 1991	Booth: Binks, Spray Gun: Devilbiss	NA

<p>PERMIT CONDITION (EU0050 and EU0060)-001 10 CSR 10-6.220 Restriction of Emission of Visible Air Contaminants</p>
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Emission Limitations:

- 1) No owner or other person shall cause or permit to be discharged into the atmosphere from any source any visible emissions with an opacity greater than 20%.
- 2) Exception: A person may discharge into the atmosphere from any source of emissions for a period(s) aggregating not more than six (6) minutes in any 60 minutes air contaminants with an opacity up to 60%.

Monitoring:

- 1) The permittee shall conduct opacity readings on these emission units using the procedures contained in U.S. EPA Test Method 22. At a minimum, the observer should be trained and knowledgeable about the effects on visibility of emissions caused by background contrast, ambient lighting, observer position relative to lighting, wind and the presence of uncombined water. Readings are only required when the emission unit is operating and when the weather conditions allow. If no visible or other significant emissions are observed using these procedures, then no further observations would be required. For emission units with visible emissions perceived or believed to exceed the applicable opacity standard, the source representative would then conduct a Method 9 observation.
- 2) The following monitoring schedule must be maintained:
 - a) Weekly observations shall be conducted for a minimum of eight (8) consecutive weeks after permit issuance. Should no violation of this regulation be observed during this period then-

- b) Observations must be made once every two (2) weeks for a period of eight (8) weeks. If a violation is noted, monitoring reverts to weekly. Should no violation of this regulation be observed during this period then-
- c) Observations must be made once per month. If a violation is noted, monitoring reverts to weekly.
- 3) If the source reverts to weekly monitoring at any time, monitoring frequency will progress in an identical manner from the initial monitoring frequency.

Recordkeeping:

- 1) The permittee shall maintain records of all observation results (see Attachment I-1 or I-2), noting:
 - a) Whether any air emissions (except for water vapor) were visible from the emission units,
 - b) All emission units from which visible emissions occurred, and
 - c) Whether the visible emissions were normal for the process.
- 2) The permittee shall maintain records of any equipment malfunctions. (see Attachment J)
- 3) The permittee shall maintain records of any Method 9 test performed in accordance with this permit condition. (see Attachment K)
- 4) Attachments I-1, I-2, J and K contain logs including these recordkeeping requirements. These logs, or equivalent forms created by the permittee, must be used to certify compliance with this requirement.
- 5) All records shall be maintained for five (5) years. They shall be kept onsite for at least two (2) years. They may be kept in either hard-copy form or on computer media.
- 6) These records shall be made available immediately for inspection to the Department of Natural Resources' personnel upon their verbal request and presentation of identification.

Reporting:

- 1) The permittee shall report to the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than ten (10) days after the permittee determined using the Method 9 test that the emission unit exceeded the opacity limit.
- 2) The permittee shall report any deviations/exceedances of this permit condition using the semi-annual monitoring report and annual compliance certification to the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, as required by 10 CSR 10-6.065(5)(C)1.B.

PERMIT CONDITION (EU0050 and EU0060)-002

10 CSR 10-6.400 Restriction of Emission of Particulate Matter from Industrial Processes

Emission Limitations:

- 1) Particulate matter shall not be emitted from Devilbiss Paint Booth (EU0050) and Sermetel Paint Booth (EU0060) in excess of 0.5 pounds per hour.
- 2) The concentration of particulate matter in the exhaust gases shall not exceed 0.30 grains per standard cubic foot.

Monitoring:

- 1) Water wall scrubber:
 - a) Devilbiss Paint Booth (EU0050) shall not be operated without the water wall scrubber being in operation.
 - b) The water wall scrubber shall be inspected for uniform and adequate flow and for other problems that could hinder the effectiveness of the filter.

- c) The water wall scrubber shall be inspected each shift before spraying begins in a booth and after start-up of the water flow.
- d) The water wall scrubber shall be maintained according to the manufacturer's recommendations.
- 2) Dry Filter:
 - a) Sermetel Paint Booth (EU0060) shall not be operated without a filter in place.
 - b) The filter shall be inspected for holes, imperfections, proper installation or other problems that could hinder the effectiveness of the filter.
 - c) The filter shall be inspected each shift before spraying begins in a booth and after installation of a new filter.
 - d) The manufacturer's recommendations shall be followed with regard to installation and frequency of replacement of the filter.

Recordkeeping:

- 1) The permittee shall maintain records to demonstrate that the emission units are not emitting particulate matter in excess of the calculated emission limit.
- 2) The permittee shall maintain a written record of all observations, deficiencies and any action resulting from inspections. Attachment J contains a log including these recordkeeping requirements. This log, or an equivalent form created by the permittee, must be used to certify compliance with this requirement.
- 3) Records may be kept in either written or electronic format. The permittee shall maintain all records required by this permit for not less than five (5) years and shall make them available immediately to any Missouri Department of Natural Resources' personnel upon request.

Reporting:

The permittee shall report any deviations/exceedances of this permit condition using the semi-annual monitoring report and annual compliance certification to the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, as required by 10 CSR 10-6.065(5)(C)1.B.

PERMIT CONDITION (EU0050 and EU0060)-003

10 CSR 10-6.075 Maximum Achievable Control Technology Regulations
40 CFR Part 63 Subpart A General Provisions and Subpart HHHHHH National Emission Standards
for Hazardous Air Pollutants: Paint Stripping and Miscellaneous Surface Coating Operations at Area
Sources

Note: This Permit Condition is not applicable until the compliance date of January 10, 2011. With the exception that the permittee must submit the initial notification required by §63.9(b) and §63.11175(a) no later than January 11, 2010.

Work Practice Standards:

- 1) The affected source is the collection of all of the items listed in §63.11171(b)(1) through (6). The permittee may not have all of the items listed in §63.11171(b)(1) through (5). [§63.11171(b)]
 - a) Mixing rooms and equipment; [§63.11171(b)(1)]
 - b) Spray booths, ventilated prep stations, curing ovens, and associated equipment; [§63.11171(b)(2)]
 - c) Spray guns and associated equipment; [§63.11171(b)(3)]
 - d) Spray gun cleaning equipment; [§63.11171(b)(4)]

- e) Equipment used for storage, handling, recovery, or recycling of cleaning solvent or waste paint; and [§63.11171(b)(5)]
- 2) Each miscellaneous surface coating operation must meet the requirements in §63.11173(e)(1) through (e)(5). [§63.11173(e)]
 - a) All painters must be certified that they have completed training in the proper spray application of surface coatings and the proper setup and maintenance of spray equipment. The minimum requirements for training and certification are described in §63.11173(f). The spray application of surface coatings is prohibited by persons who are not certified as having completed the training described in §63.11173(f). [§63.11173(e)(1)]
 - b) All spray-applied coatings must be applied in a spray booth, preparation station, or mobile enclosure that meets the requirements of §63.11173(e)(2)(i) and either §63.11173(e)(2)(ii), (e)(2)(iii), or (e)(2)(iv). [§63.11173(e)(2)]
 - i) All spray booths, preparation stations, and mobile enclosures must be fitted with a type of filter technology that is demonstrated to achieve at least 98-percent capture of paint overspray. The procedure used to demonstrate filter efficiency must be consistent with the American Society of Heating, Refrigerating, and Air-Conditioning Engineers (ASHRAE) Method 52.1, “Gravimetric and Dust-Spot Procedures for Testing Air-Cleaning Devices Used in General Ventilation for Removing Particulate Matter, June 4, 1992” (incorporated by reference, see §63.14 of Subpart A of this part). The test coating for measuring filter efficiency shall be a high solids bake enamel delivered at a rate of at least 135 grams per minute from a conventional (non-HVLP) air-atomized spray gun operating at 40 pounds per square inch (psi) air pressure; the air flow rate across the filter shall be 150 feet per minute. Owners and operators may use published filter efficiency data provided by filter vendors to demonstrate compliance with this requirement and are not required to perform this measurement. The requirements of this paragraph do not apply to waterwash spray booths that are operated and maintained according to the manufacturer's specifications. [§63.11173(e)(2)(i)]
 - ii) Spray booths and preparation stations that are used to coat miscellaneous parts and products must have a full roof, at least three complete walls or complete side curtains, and must be ventilated so that air is drawn into the booth. The walls and roof of a booth may have openings, if needed, to allow for conveyors and parts to pass through the booth during the coating process. [§63.11173(e)(2)(iii)]
 - c) All spray-applied coatings must be applied with a high volume, low pressure (HVLP) spray gun, electrostatic application, airless spray gun, air-assisted airless spray gun, or an equivalent technology that is demonstrated by the spray gun manufacturer to achieve transfer efficiency comparable to one of the spray gun technologies listed above for a comparable operation, and for which written approval has been obtained from the Director. The procedure used to demonstrate that spray gun transfer efficiency is equivalent to that of an HVLP spray gun must be equivalent to the California South Coast Air Quality Management District's “Spray Equipment Transfer Efficiency Test Procedure for Equipment User, May 24, 1989” and “Guidelines for Demonstrating Equivalency with District Approved Transfer Efficient Spray Guns, September 26, 2002” (incorporated by reference, see §63.14 of Subpart A of Part 63). [§63.11173(e)(3)]
 - d) All paint spray gun cleaning must be done so that an atomized mist or spray of gun cleaning solvent and paint residue is not created outside of a container that collects used gun cleaning solvent. Spray gun cleaning may be done with, for example, hand cleaning of parts of the disassembled gun in a container of solvent, by flushing solvent through the gun without

- atomizing the solvent and paint residue, or by using a fully enclosed spray gun washer. A combination of non-atomizing methods may also be used. [§63.11173(e)(4)]
- e) As provided in §63.6(g), the Director, may choose to grant the permittee permission to use an alternative to the emission standards in §63.11173 after the permittee has requested approval to do so according to §63.6(g)(2). [§63.11173(e)(5)]
- 3) Each owner or operator of an affected miscellaneous surface coating source must ensure and certify that all new and existing personnel, including contract personnel, who spray apply surface coatings, as defined in §63.11180, are trained in the proper application of surface coatings as required by §63.11173(e)(1). The training program must include, at a minimum, the items listed in §63.11173(f)(1) through (f)(3). [§63.11173(f)]
- a) A list of all current personnel by name and job description who are required to be trained; [§63.11173(f)(1)]
- b) Hands-on and classroom instruction that addresses, at a minimum, initial and refresher training in the topics listed in §63.11173(f)(2)(i) through (2)(iv). [§63.11173(f)(2)]
- i) Spray gun equipment selection, set up, and operation, including measuring coating viscosity, selecting the proper fluid tip or nozzle, and achieving the proper spray pattern, air pressure and volume, and fluid delivery rate. [§63.11173(f)(2)(i)]
- ii) Spray technique for different types of coatings to improve transfer efficiency and minimize coating usage and overspray, including maintaining the correct spray gun distance and angle to the part, using proper banding and overlap, and reducing lead and lag spraying at the beginning and end of each stroke. [§63.11173(f)(2)(ii)]
- iii) Routine spray booth and filter maintenance, including filter selection and installation. [§63.11173(f)(2)(iii)]
- iv) Environmental compliance with the requirements of Subpart HHHHHH. [§63.11173(f)(2)(iv)]
- c) A description of the methods to be used at the completion of initial or refresher training to demonstrate, document, and provide certification of successful completion of the required training. Owners and operators who can show by documentation or certification that a painter's work experience and/or training has resulted in training equivalent to the training required in §63.11173(f)(2) are not required to provide the initial training required by that paragraph to these painters. [§63.11173(f)(3)]
- 4) As required by §63.11173(e)(1), all new and existing personnel at a miscellaneous surface coating source, including contract personnel, who spray apply surface coatings, as defined in §63.11180, must be trained by the dates specified in §63.11173(g)(2). Employees who transfer within a company to a position as a painter are subject to the same requirements as a new hire. [§63.11173(g)]
- a) All personnel must be trained and certified no later than 180 days after hiring or no later than January 10, 2011, whichever is later. Painter training that was completed within five years prior to the date training is required, and that meets the requirements specified in §63.11173(f)(2) satisfies this requirement and is valid for a period not to exceed five years after the date the training is completed. [§63.11173(g)(2)]
- b) Training and certification will be valid for a period not to exceed five years after the date the training is completed, and all personnel must receive refresher training that meets the requirements of this section and be re-certified every five years. [§63.11173(g)(3)]

Recordkeeping:

- 1) The permittee must keep the records specified in §63.11177(a) through (d) and (g). [§63.11177]
 - a) Certification that each painter has completed the training specified in §63.11173(f) with the date the initial training and the most recent refresher training was completed. [§63.11177(a)]
 - b) Documentation of the filter efficiency of any spray booth exhaust filter material, according to the procedure in §63.11173(e)(3)(i). [§63.11177(b)]
 - c) Documentation from the spray gun manufacturer that each spray gun with a cup capacity equal to or greater than 3.0 fluid ounces (89 cc) that does not meet the definition of an HVLP spray gun, electrostatic application, airless spray gun, or air assisted airless spray gun, has been determined by the Administrator to achieve a transfer efficiency equivalent to that of an HVLP spray gun, according to the procedure in §63.11173(e)(4). [§63.11177(c)]
 - d) Copies of any notification submitted as required by §63.11175 and copies of any report submitted as required by §63.11176. [§63.11177(d)]
 - e) Records of any deviation from the requirements in §§63.11173, 63.11174, 63.11175, or 63.11176. These records must include the date and time period of the deviation, and a description of the nature of the deviation and the actions taken to correct the deviation. [§63.11177(g)]
 - f) Records of any assessments of source compliance performed in support of the initial notification, notification of compliance status, or annual notification of changes report. [§63.11177(h)]
- 2) The permittee must maintain copies of the records specified in §63.11177 for a period of at least five years after the date of each record. Copies of records must be kept on site and in a printed or electronic form that is readily accessible for inspection for at least the first two years after their date, and may be kept off-site after that two year period. [§63.11178(a)]
- 3) These records shall be made available immediately for inspection to the Department of Natural Resources' personnel upon their verbal request and presentation of identification.

Reporting:

- 1) *Initial Notification.* The permittee must submit the initial notification required by §63.9(b). The permittee must submit the initial notification no later than January 11, 2010. The initial notification must provide the information specified below. [§63.11175(a)]
 - a) The company name, if applicable. [§63.11175(a)(1)]
 - b) The name, title, street address, telephone number, e-mail address (if available), and signature of the owner and operator, or other certifying company official; [§63.11175(a)(2)]
 - c) The street address (physical location) of the affected source and the street address where compliance records are maintained, if different; [§63.11175(a)(3)]
 - d) An identification of the relevant standard (i.e., this subpart, 40 CFR Part 63, Subpart HHHHHH); [§63.11175(a)(4)]
 - e) A brief description of the type of operation as specified in §63.11175(a)(5)(i) or (ii). [§63.11175(a)(5)]
 - i) For all surface coating operations, indicate whether the source is a motor vehicle and mobile equipment surface coating operation or a miscellaneous surface coating operation, and include the number of spray booths and preparation stations, and the number of painters usually employed at the operation.
 - f) A statement of whether the source is already in compliance with each of the relevant requirements of Subpart HHHHHH, or whether the source will be brought into compliance by the compliance date. For surface coating operations, the relevant requirements are specified in §63.11173(e) through (g). [§63.11175(a)(7)]

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- g) The permittee may certify in the initial notification that the source is already in compliance. If the permittee is certifying in the initial notification that the source is in compliance with the relevant requirements of Subpart HHHHHH, then include also a statement by a responsible official with that official's name, title, phone number, e-mail address (if available) and signature, certifying the truth, accuracy, and completeness of the notification, a statement that the source has complied with all the relevant standards of this subpart, and that this initial notification also serves as the notification of compliance status. [§63.11175(a)(8)]
- 2) *Notification of Compliance Status.* If the permittee did not certify in the initial notification that the source is already in compliance as specified in §63.11175(a), then the permittee must submit a notification of compliance status. The permittee must submit a Notification of Compliance Status on or before March 11, 2011. The permittee is required to submit the information specified below with the Notification of Compliance Status: [§63.11175(b)]
- a) The company's name and the street address (physical location) of the affected source and the street address where compliance records are maintained, if different. [§63.11175(b)(1)]
- b) The name, title, address, telephone, e-mail address (if available) and signature of the owner and operator, or other certifying company official, certifying the truth, accuracy, and completeness of the notification and a statement of whether the source has complied with all the relevant standards and other requirements of Subpart HHHHHH or an explanation of any noncompliance and a description of corrective actions being taken to achieve compliance. For surface coating operations, the relevant requirements are specified in §63.11173(e) through (g). [§63.11175(b)(2)]
- c) The date of the Notification of Compliance Status. [§63.11175(b)(3)]
- 3) *Annual Notification of Changes Report.* The permittee is required to submit a report in each calendar year in which information previously submitted in either the initial notification required by §63.11175(a), Notification of Compliance, or a previous annual notification of changes report submitted under this paragraph, has changed. Deviations from the relevant requirements in §63.11173(e) through (g) on the date of the report will be deemed to be a change. The annual notification of changes report must be submitted prior to March 1 of each calendar year when reportable changes have occurred and must include the information specified in §63.11176(a)(1) through (2). [§63.11176(a)]
- a) The company's name and the street address (physical location) of the affected source and the street address where compliance records are maintained, if different. [§63.11176(a)(1)]
- b) The name, title, address, telephone, e-mail address (if available) and signature of the owner and operator, or other certifying company official, certifying the truth, accuracy, and completeness of the notification and a statement of whether the source has complied with all the relevant standards and other requirements of this subpart or an explanation of any noncompliance and a description of corrective actions being taken to achieve compliance. [§63.11176(a)(2)]

EU0070 – HARD CHROME ELECTROPLATING			
Emission Unit	Description	Manufacturer /Model #	2007 EIQ Reference #
EU0070	Hard Chrome Electroplating: MHDR 3,000 Amp-hrs; vented to composite mesh pad system (CD-3D); construction date 1975	N/A	P-3G

PERMIT CONDITION EU0070-001
10 CSR 10-6.075 Maximum Achievable Control Technology Regulations
40 CFR Part 63 Subpart A General Provisions and Subpart N National Emission Standards for Chromium Emissions From Hard and Decorative Chromium Electroplating and Chromium Anodizing Tanks

Note: This Permit Condition contains those sections of Subpart N that apply to existing open surface hard chromium electroplating tanks located at a large hard electroplating facility (has a maximum cumulative potential rectifier capacity greater than or equal to 60 million amp-hr/year) which is a minor source and that uses a Composite mesh-pad (CMP) system add-on air pollution control device.

Emission Limitations:

- 1) During tank operation, the permittee shall control chromium emissions discharged to the atmosphere from that affected source by not allowing the concentration of total chromium in the exhaust gas stream discharged to the atmosphere to exceed 0.015 milligrams of total chromium per dry standard cubic meter (mg/dscm) of ventilation air (6.6×10^{-6} grains per dry standard cubic foot [gr/dscf]). [§63.342(c)(1)(i)]
- 2) The emission limitations apply during tank operation (the time in which current and/or voltage is being applied to a chromium electroplating tank or a chromium anodizing tank), and during periods of startup and shutdown as these are routine occurrences for affected sources subject to Subpart N. The emission limitations do not apply during periods of malfunction, but the work practice standards that address operation and maintenance and that are required by §63.342(f) must be followed during malfunctions. [§63.342(b)(1)]

Work Practice Standards:

- 1) The work practice standards address operation and maintenance practices. All owners or operators subject to the standards in §63.342(c) are subject to these work practice standards. [§63.342(f)]
 - a) At all times, including periods of startup, shutdown, and malfunction, the permittee shall operate and maintain any affected source, including associated air pollution control devices and monitoring equipment, in a manner consistent with good air pollution control practices, consistent with the operation and maintenance plan required by §63.342(f)(3). [§63.342(f)(1)(i)]
 - b) Malfunctions shall be corrected as soon as practicable after their occurrence in accordance with the operation and maintenance plan required by §63.342(f)(3). [§63.342(f)(1)(ii)]
 - c) Operation and maintenance requirements established pursuant to Section 112 of the Act are enforceable independent of emissions limitations or other requirements in relevant standards. [§63.342(f)(1)(iii)]
- 2) Determination of whether acceptable operation and maintenance procedures are being used will be based on information available to the Director, which may include, but is not limited to, monitoring results; review of the operation and maintenance plan, procedures, and records; and inspection of the source. [§63.342(f)(2)(i)]

- a) Based on the results of a determination made under §63.342(f)(2)(i), the Director may require that the permittee make changes to the operation and maintenance plan required by §63.342(f)(3) for that source. Revisions may be required if the Director finds that the plan: [§63.342(f)(2)(ii)]
 - i) Does not address a malfunction that has occurred; [§63.342(f)(2)(ii)(A)]
 - ii) Fails to provide for the operation of the affected source, the air pollution control techniques, or the control system and process monitoring equipment during a malfunction in a manner consistent with good air pollution control practices; or [§63.342(f)(2)(ii)(B)]
 - iii) Does not provide adequate procedures for correcting malfunctioning process equipment, air pollution control techniques, or monitoring equipment as quickly as practicable. [§63.342(f)(2)(ii)(C)]
- 3) *Operation and maintenance plan.* The permittee shall prepare an operation and maintenance plan to be implemented no later than January 25, 1997. The plan shall be incorporated by reference into this title V permit. The plan shall include the following elements: [§63.342(f)(3)(i)]
 - a) The plan shall specify the operation and maintenance criteria for the affected source, the add-on air pollution control device, and the process and control system monitoring equipment, and shall include a standardized checklist to document the operation and maintenance of this equipment; [§63.342(f)(3)(i)(A)]
 - b) The plan shall incorporate the work practice standards for the composite mesh-pad (CMP) system, as summarized in Table 1 of §63.342: [§63.342(f)(3)(i)(B)]

Table 1 to §63.342—Summary of Operation and Maintenance Practices

Control technique	Operation and maintenance practices	Frequency
Composite mesh-pad (CMP) system	1. Visually inspect device to ensure there is proper drainage, no chronic acid buildup on the pads, and no evidence of chemical attack on the structural integrity of the device	1. 1/quarter.
	2. Visually inspect back portion of the mesh pad closest to the fan to ensure there is no breakthrough of chromic acid mist	2. 1/quarter.
	3. Visually inspect ductwork from tank to the control device to ensure there are no leaks	3. 1/quarter.
	4. Perform washdown of the composite mesh-pads in accordance with manufacturers recommendations	4. Per manufacturer.

- c) The plan shall specify procedures to be followed to ensure that equipment or process malfunctions due to poor maintenance or other preventable conditions do not occur; and [§63.342(f)(3)(i)(D)]
- d) The plan shall include a systematic procedure for identifying malfunctions of process equipment, add-on air pollution control devices, and process and control system monitoring equipment and for implementing corrective actions to address such malfunctions. [§63.342(f)(3)(i)(E)]
- 4) If the operation and maintenance plan fails to address or inadequately addresses an event that meets the characteristics of a malfunction at the time the plan is initially developed, the permittee shall revise the operation and maintenance plan within 45 days after such an event occurs. The revised plan shall include procedures for operating and maintaining the process equipment, add-on air pollution control device, or monitoring equipment during similar malfunction events, and a program for corrective action for such events. [§63.342(f)(3)(ii)]

- 5) If actions taken by the permittee during periods of malfunction are inconsistent with the procedures specified in the operation and maintenance plan required by §63.342(f)(3)(i), the permittee shall record the actions taken for that event and shall report by phone such actions within 2 working days after commencing actions inconsistent with the plan. This report shall be followed by a letter within 7 working days after the end of the event, unless the permittee makes alternative reporting arrangements, in advance, with the Director. [§63.342(f)(3)(iv)]
- 6) The permittee shall keep the written operation and maintenance plan on record after it is developed to be made available for inspection, upon request, by the Director for the life of the affected source or until the source is no longer subject to the provisions of Subpart N. In addition, if the operation and maintenance plan is revised, the permittee shall keep previous (i.e., superseded) versions of the operation and maintenance plan on record to be made available for inspection, upon request, by the Director for a period of 5 years after each revision to the plan. [§63.342(f)(3)(v)]
- 7) To satisfy the requirements of §63.342(f)(3), the permittee may use applicable standard operating procedure (SOP) manuals, Occupational Safety and Health Administration (OSHA) plans, or other existing plans, provided the alternative plans meet the requirements of §63.342. [§63.342(f)(3)(vi)]

Monitoring:

- 1) *Monitoring to demonstrate continuous compliance.* The permittee shall conduct monitoring for a composite mesh-pad system required to demonstrate continuous compliance with the emission limitations as follows: [§63.343(c)]
 - a) The permittee shall monitor and record the pressure drop across the composite mesh-pad system once each day that any affected source is operating. To be in compliance with the standards, the composite mesh-pad system shall be operated within ± 2 inches of 3.2 inches of water column. (The value established during initial performance testing) [§63.343(c)(1)(ii)]
- 2) The permittee may repeat the performance test and establish as a new site-specific operating parameter the pressure drop across the composite mesh-pad system according to the requirements in §63.343(c)(1)(i) or (ii). To establish a new site-specific operating parameter for pressure drop, the permittee shall satisfy the requirements specified in §63.343(c)(1)(iii)(A) through (D). [§63.343(c)(1)(iii)]
 - a) Determine the outlet chromium concentration using the test methods and procedures in §63.344(c); [§63.343(c)(1)(iii)(A)]
 - b) Establish the site-specific operating parameter value using the procedures §63.344(d)(5); [§63.343(c)(1)(iii)(B)]
 - c) Satisfy the recordkeeping requirements in §63.346(b)(6) through (8); and [§63.343(c)(1)(iii)(C)]
 - d) Satisfy the reporting requirements in §63.347(d) and (f). [§63.343(c)(1)(iii)(D)]
- 3) The requirement to operate a composite mesh-pad system within the range of pressure drop values established under §63.343(c)(1)(i) through (iii) does not apply during automatic washdown cycles of the composite mesh-pad system. [§63.343(c)(1)(iv)]
- 4) *Establishing site-specific operating parameter values.* All monitoring equipment shall be installed such that representative measurements of emissions or process parameters from the affected source are obtained. For monitoring equipment purchased from a vendor, verification of the operational status of the monitoring equipment shall include execution of the manufacturer's written specifications or recommendations for installation, operation, and calibration of the system. [§63.344(d)(2)]
 - a) Specification for differential pressure measurement devices used to measure pressure drop across a control system shall be in accordance with manufacturer's accuracy specifications. [§63.344(d)(2)(ii)]

- 5) The permittee may establish the pressure drop in accordance with the following guidelines: [§63.344(d)(5)]
- a) Pressure taps shall be installed at any of the following locations: [§63.344(d)(5)(i)]
 - i) At the inlet and outlet of the control system. The inlet tap should be installed in the ductwork just prior to the control device and the corresponding outlet pressure tap should be installed on the outlet side of the control device prior to the blower or on the downstream side of the blower; [§63.344(d)(5)(i)(A)]
 - ii) On each side of the packed bed within the control system or on each side of each mesh pad within the control system; or [§63.344(d)(5)(i)(B)]
 - iii) On the front side of the first mesh pad and back side of the last mesh pad within the control system. [§63.344(d)(5)(i)(C)]
 - b) Pressure taps shall be sited at locations that are: [§63.344(d)(5)(ii)]
 - i) Free from pluggage as possible and away from any flow disturbances such as cyclonic demisters. [§63.344(d)(5)(ii)(A)]
 - ii) Situated such that no air infiltration at measurement site will occur that could bias the measurement. [§63.344(d)(5)(ii)(B)]
 - c) Pressure taps shall be constructed of either polyethylene, polybutylene, or other nonreactive materials. [§63.344(d)(5)(iii)]
 - d) Nonreactive plastic tubing shall be used to connect the pressure taps to the device used to measure pressure drop. [§63.344(d)(5)(iv)]
 - e) Any of the following pressure gauges can be used to monitor pressure drop: a magnehelic gauge, an inclined manometer, or a "U" tube manometer. [§63.344(d)(5)(v)]
 - f) Prior to connecting any pressure lines to the pressure gauge(s), each gauge should be zeroed. No calibration of the pressure gauges is required. [§63.344(d)(5)(vi)]

Recordkeeping:

- 1) The permittee shall fulfill all recordkeeping requirements outlined in §63.346 and in the General Provisions to 40 CFR Part 63, according to the applicability of Subpart A as identified in Table 1 of Subpart N. [§63.346(a)]
- 2) The permittee shall maintain the following records for such source: [§63.346(b)]
 - a) Inspection records for the add-on air pollution control device, and monitoring equipment, to document that the inspection and maintenance required by the work practice standards of §63.342(f) and Table 1 of §63.342 have taken place. The record can take the form of a checklist and should identify the device inspected, the date of inspection, a brief description of the working condition of the device during the inspection, and any actions taken to correct deficiencies found during the inspection. [§63.346(b)(1)]
 - b) Records of all maintenance performed on the affected source, the add-on air pollution control device, and monitoring equipment; [§63.346(b)(2)]
 - c) Records of the occurrence, duration, and cause (if known) of each malfunction of process, add-on air pollution control, and monitoring equipment; [§63.346(b)(3)]
 - d) Records of actions taken during periods of malfunction when such actions are inconsistent with the operation and maintenance plan; [§63.346(b)(4)]
 - e) Other records, which may take the form of checklists, necessary to demonstrate consistency with the provisions of the operation and maintenance plan required by §63.342(f)(3); [§63.346(b)(5)]
 - f) Test reports documenting results of all performance tests; [§63.346(b)(6)]
 - g) All measurements as may be necessary to determine the conditions of performance tests; [§63.346(b)(7)]

- h) Records of monitoring data required by §63.343(c) that are used to demonstrate compliance with the standard including the date and time the data are collected; [§63.346(b)(8)]
 - i) The specific identification (i.e., the date and time of commencement and completion) of each period of excess emissions, as indicated by monitoring data, that occurs during malfunction of the process, add-on air pollution control, or monitoring equipment; [§63.346(b)(9)]
 - j) The specific identification (i.e., the date and time of commencement and completion) of each period of excess emissions, as indicated by monitoring data, that occurs during periods other than malfunction of the process, add-on air pollution control, or monitoring equipment; [§63.346(b)(10)]
 - k) The total process operating time of the affected source during the reporting period; [§63.346(b)(11)]
 - l) Any information demonstrating whether a source is meeting the requirements for a waiver of recordkeeping or reporting requirements, if the source has been granted a waiver under §63.10(f); and [§63.346(b)(15)]
 - m) All documentation supporting the notifications and reports required by §63.9, §63.10, and §63.347. [§63.346(b)(16)]
- 3) All records shall be maintained for a period of 5 years in accordance with §63.10(b)(1). [§63.346(c)]
- 4) These records shall be made available immediately for inspection to the Department of Natural Resources' personnel upon their verbal request and presentation of identification.

Reporting:

- 1) The permittee shall fulfill all reporting requirements outlined in §63.347 and in the General Provisions to 40 CFR Part 63, according to the applicability of Subpart A as identified in Table 1 of Subpart N. These reports shall be made to the Director. [§63.347(a)]
- a) Reports required by Subpart A of Part 63 and §63.347 may be sent by U.S. mail, fax, or by another courier. [§63.347(a)(1)]
 - i) Submittals sent by U.S. mail shall be postmarked on or before the specified date. [§63.347(a)(1)(i)]
 - ii) Submittals sent by other methods shall be received by the Director on or before the specified date. [§63.347(a)(1)(ii)]
 - b) If acceptable to both the Director and the permittee, reports may be submitted on electronic media. [§63.347(a)(2)]
- 2) *Notification of performance test.* The permittee shall notify the Director in writing of his or her intention to conduct a performance test at least 60 calendar days before the test is scheduled to begin to allow the Director to have an observer present during the test. Observation of the performance test by the Director is optional. [§63.347(d)(1)]
- a) In the event the permittee is unable to conduct the performance test as scheduled, the provisions of §63.7(b)(2) apply. [§63.347(d)(2)]
 - b) Reports of performance test results shall be submitted to the Director no later than 90 days following the completion of the performance test, and shall be submitted as part of the notification of compliance status required by §63.347(e). [§63.347(f)(2)]
- 3) *Ongoing compliance reports.* The permittee shall prepare a summary report to document the ongoing compliance status of the affected source. The report shall contain the information identified in §63.347(g)(3), shall be completed annually and retained on site, and made available to the Director upon request. The report shall be completed annually except as provided in §63.347(h)(2). [§63.347(h)(1)]

- a) *Contents of ongoing compliance status reports.* The permittee shall prepare a summary report to document the ongoing compliance status of the source. The report must contain the following information: [§63.347(g)(3)]
 - i) The company name and address of the affected source; [§63.347(g)(3)(i)]
 - ii) An identification of the operating parameter that is monitored for compliance determination, as required by §63.343(c); [§63.347(g)(3)(ii)]
 - iii) The relevant emission limitation for the affected source, and the operating parameter value, or range of values, that correspond to compliance with this emission limitation as specified in the notification of compliance status required by §63.347(e); [§63.347(g)(3)(iii)]
 - iv) The beginning and ending dates of the reporting period; [§63.347(g)(3)(iv)]
 - v) A description of the type of process performed in the affected source; [§63.347(g)(3)(v)]
 - vi) The total operating time of the affected source during the reporting period; [§63.347(g)(3)(vi)]
 - vii) A summary of operating parameter values, including the total duration of excess emissions during the reporting period as indicated by those values, the total duration of excess emissions expressed as a percent of the total source operating time during that reporting period, and a breakdown of the total duration of excess emissions during the reporting period into those that are due to process upsets, control equipment malfunctions, other known causes, and unknown causes; [§63.347(g)(3)(viii)]
 - viii) A certification by a responsible official, as defined in §63.2, that the work practice standards in §63.342(f) were followed in accordance with the operation and maintenance plan for the source; [§63.347(g)(3)(ix)]
 - ix) If the operation and maintenance plan required by §63.342(f)(3) was not followed, an explanation of the reasons for not following the provisions, an assessment of whether any excess emission and/or parameter monitoring exceedances are believed to have occurred, and a copy of the report(s) required by §63.342(f)(3)(iv) documenting that the operation and maintenance plan was not followed; [§63.347(g)(3)(x)]
 - x) A description of any changes in monitoring, processes, or controls since the last reporting period; [§63.347(g)(3)(xi)]
 - xi) The name, title, and signature of the responsible official who is certifying the accuracy of the report; and [§63.347(g)(3)(xii)]
 - xii) The date of the report. [§63.347(g)(3)(xii)]
- 4) *Reports of exceedances.* If both of the following conditions are met, semiannual reports shall be prepared and submitted to the Director: [§63.347(h)(2)(i)]
 - a) The total duration of excess emissions (as indicated by the monitoring data collected by the owner or operator of the affected source in accordance with §63.343(c)) is 1 percent or greater of the total operating time for the reporting period; and [§63.347(h)(2)(i)(A)]
 - b) The total duration of malfunctions of the add-on air pollution control device and monitoring equipment is 5 percent or greater of the total operating time. [§63.347(h)(2)(i)(B)]
- 5) Once the permittee reports an exceedance as defined in §63.347(h)(2)(i), ongoing compliance status reports shall be submitted semiannually until a request to reduce reporting frequency under §63.347(h)(3) is approved. [§63.347(h)(2)(ii)]
- 6) The Director may determine on a case-by-case basis that the summary report shall be completed more frequently and submitted, or that the annual report shall be submitted instead of being retained on site, if these measures are necessary to accurately assess the compliance status of the source. [§63.347(h)(2)(iii)]

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- 7) *Request to reduce frequency of ongoing compliance status reports for area source.* If the permittee is required to submit ongoing compliance status reports on a semiannual (or more frequent) basis, or is required to submit its annual report instead of retaining it on site, may reduce the frequency of reporting to annual and/or be allowed to maintain the annual report onsite if all of the following conditions are met: [§63.347(h)(3)(i)]
- a) For 1 full year (e.g., 2 semiannual or 4 quarterly reporting periods), the ongoing compliance status reports demonstrate that the affected source is in compliance with the relevant emission limit; [§63.347(h)(3)(i)(A)]
 - b) The owner or operator continues to comply with all applicable recordkeeping and monitoring requirements of Subpart A of Part 63 and Subpart N; and [§63.347(h)(3)(i)(B)]
 - c) The Director does not object to a reduced reporting frequency for the affected source, as provided in §63.347(h)(3)(ii) and (iii). [§63.347(h)(3)(i)(C)]
- 8) The frequency of submitting ongoing compliance status reports may be reduced only after the permittee notifies the Director in writing of his or her intention to make such a change, and the Director does not object to the intended change. In deciding whether to approve a reduced reporting frequency, the Director may review information concerning the source's previous performance history during the 5-year recordkeeping period prior to the intended change, or the recordkeeping period since the source's compliance date, whichever is shorter. Records subject to review may include performance test results, monitoring data, and evaluations of the permittee's conformance with emission limitations and work practice standards. Such information may be used by the Director to make a judgment about the source's potential for noncompliance in the future. If the Director disapproves the permittee's request to reduce reporting frequency, the Director will notify permittee in writing within 45 days after receiving notice of the permittee's intention. The notification from the Director to the permittee will specify the grounds on which the disapproval is based. In the absence of a notice of disapproval within 45 days, approval is automatically granted. [§63.347(h)(3)(ii)]
- 9) As soon as the monitoring data required by §63.343(c) show that the source is not in compliance with the relevant emission limit, the frequency of reporting shall revert to semiannual, and the permittee shall state this exceedance in the ongoing compliance status report for the next reporting period. After demonstrating ongoing compliance with the relevant emission limit for another full year, the permittee may again request approval from the Director to reduce the reporting frequency as allowed by §63.347(h)(3). [§63.347(h)(3)(iii)]

EU0080 AND EU0090 – TEST CELLS 6 AND 5			
Emission Unit	Description	Manufacturer/ Model #	2007 EIQ Reference #
EU0080	Test Cell 6: test cell in which uninstalled engines are mounted and undergo testing to determine if they meet performance specifications; construction date 1986; modified 2004	Custom	P-5A
EU0090	Test Cell 5: test cell in which uninstalled engines are mounted and undergo testing to determine if they meet performance specifications; construction date 1986	Custom	P-5B

<p>PERMIT CONDITION (EU0080 and EU0090)-001 Construction Permit 122004-009, Issued December 20, 2004</p>

Emission Limitations:

- 1) Premier Turbines will cease the testing of type T700 engines in Test Cells 6 and 5 (EU0080 and EU0090). [Construction Permit 122004-009, Special Condition 2]
- 2) Premier Turbines shall emit less than 15 tons of particulate matter less than ten (10) microns in diameter (PM₁₀) in any consecutive 12 month period from the Test Cells 6 and 5 (EU0080 and EU0090) and the plasma/flame spray booths (EU0140 through EU0160). [Note: This Emission Limitation is also listed in Permit Condition (EU0140 through EU0160)-001.] [Construction Permit 122004-009, Special Condition 3.A]
- 3) Premier Turbines shall emit less than forty (40) tons sulfur oxides (SO_x) from the Test Cells 6 and 5 (EU0080 and EU0090) in any consecutive twelve (12) month period. [Construction Permit 122004-009, Special Condition 4.A]
- 4) Premier Turbines shall emit less than forty (40) tons nitrogen oxides (NO_x) from the Test Cells 6 and 5 (EU0080 and EU0090) in any consecutive twelve (12) month period. [Construction Permit 122004-009, Special Condition 5.A]
- 5) Premier Turbines shall emit less than 100 tons carbon monoxide oxides (CO) from the Test Cells 6 and 5 (EU0080 and EU0090) in any consecutive twelve (12) month period. [Construction Permit 122004-009, Special Condition 6.A]
- 6) The sulfur content of the jet fuel combusted in the test cells at the installation shall not exceed 0.29 percent by weight. [Construction Permit 122004-009, Special Condition 11]

Testing:

- 1) The installation may conduct additional testing for any pollutant from any engine in the future to obtain engine-specific emission factors to be used for recordkeeping purposes. The below outlined procedure must be followed for any additional tests. Emission factors must be approved by the Director prior to their use in recordkeeping. [Construction Permit 122004-009, Special Condition 9.F]
- 2) A completed Proposed Test Plan must be submitted to Air Pollution Control Program at least 30 day prior to the proposed test date so that a pretest meeting may be arranged, if necessary, and to assure that the test date is acceptable for an observer to be present. The Proposed Test Plan must be approved by the Director prior to conduction the above requirement emissions testing. [Construction Permit 122004-009, Special Condition 9.B]
- 3) Within 60 days of completing or repair of an engine of the type listed in the above table at the installation, the owner/operator shall have conducted the required performance tests on such engine. [Construction Permit 122004-009, Special Condition 9.C]

- 4) Any required performance testing shall be conducted during periods of representative conditions typical of normal engine testing procedure. [Construction Permit 122004-009, Special Condition 9.D]

Monitoring/Recordkeeping:

- 1) Premier Turbines shall maintain an accurate record of PM₁₀ emitted into the atmosphere from Test Cells 6 and 5 (EU0080 and EU0090) and plasma/flame spray booths (EU0140 through EU0160). Attachment L or an equivalent form shall be used for this purpose. Premier Turbines shall maintain all records required by this permit for not less than five (5) years and shall make them available immediately to any Missouri Department of Natural Resources' personnel upon request. [Note: This Monitoring/Recordkeeping requirement is also listed in Permit Condition (EU0140 through EU0160)-001.] [Construction Permit 122004-009, Special Condition 3.B]
- 2) Premier Turbines shall maintain the monthly and the sum of the most recent consecutive twelve (12) month records of SO_x emissions from Test Cells 6 and 5 (EU0080 and EU0090). Attachment M or an equivalent form approved by the Air Pollution Control Program (APCP) shall be used for recordkeeping. Premier Turbines shall maintain all records required by this permit for not less than five (5) years and shall make them available immediately to any Missouri Department of Natural Resources' personnel upon request. [Construction Permit 122004-009, Special Condition 4.B]
- 3) Premier Turbines shall maintain the monthly and the sum of the most recent consecutive twelve (12) month records of NO_x emissions from Test Cells 6 and 5 (EU0080 and EU0090). Attachment N or an equivalent form approved by the Air Pollution Control Program (APCP) shall be used for recordkeeping. Premier Turbines shall maintain all records required by this permit for not less than five (5) years and shall make them available immediately to any Missouri Department of Natural Resources' personnel upon request. [Construction Permit 122004-009, Special Condition 5.B]
- 4) Premier Turbines shall maintain the monthly and the sum of the most recent consecutive twelve (12) month records of CO emissions from Test Cells 6 and 5 (EU0080 and EU0090). Attachment O or an equivalent form approved by the Air Pollution Control Program (APCP) shall be used for recordkeeping. Premier Turbines shall maintain all records required by this permit for not less than five (5) years and shall make them available immediately to any Missouri Department of Natural Resources' personnel upon request. [Construction Permit 122004-009, Special Condition 6.B]
- 5) Premier Turbines shall obtain, for each fuel oil delivery, from fuel vendors or conduct their own fuel analysis to evaluate the typical sulfur content weight percent for the jet fuel. The fuel consumption records and statement shall be kept on-site for five (5) years and shall be made immediately available to the Missouri Department of Natural resources' personnel upon request. [Construction Permit 122004-009, Special Condition 11]

Reporting:

- 1) Premier Turbines shall report to the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, Missouri 65102, no later than ten (10) days after the end of the month during which records indicate that the source exceeded the emission limitations of this permit condition. [Note: This Reporting requirement is also listed in Permit Condition (EU0140 through EU0160)-001.] [Construction Permit 122004-009, Special Condition 3.C, 4.C, 5.C, and 6.C]
- 2) Two (2) copies of a written report of the performance test results must be submitted to the Director within 90 days of completion of the performance testing. The report must include legible copies of the raw data sheets, analytical instrument laboratory data, and complete sample calculations from the required method for at least one sample run for each air pollutant tested. [Construction Permit 122004-009, Special Condition 9.E]

PERMIT CONDITION (EU0080 and EU0090)-002
10 CSR 10-6.260 Restriction of Emission of Sulfur Compounds

Emission Limitations:

- 1) Emissions from any new source operation shall not contain more than five hundred parts per million by volume (500 ppmv) of sulfur dioxide.
- 2) Stack gasses shall not contain more than thirty-five milligrams (35 mg) per cubic meter of sulfuric acid or sulfur trioxide or any combination of those gases averaged on any consecutive three hour time period.
- 3) No person shall cause or permit the emission of sulfur compounds from any source which causes or contributes to concentrations exceeding those specified in 10 CSR 10-6.010 Ambient Air Quality Standards.

Pollutant	Concentration by Volume	Remarks
Sulfur Dioxide (SO ₂)	0.03 parts per million (ppm) (80 micrograms per cubic meter (µg/m ³))	Annual arithmetic mean
	0.14 ppm (365 µg/m ³)	24-hour average not to be exceeded more than once per year
	0.5 ppm (1300 µg/m ³)	3-hour average not to be exceeded more than once per year
Hydrogen Sulfide (H ₂ S)	0.05 ppm (70 µg/m ³)	½-hour average not to be exceeded over 2 times per year
	0.03 ppm (42 µg/m ³)	½-hour average not to be exceeded over 2 times in any 5 consecutive days
Sulfuric Acid (H ₂ SO ₄)	10 µg/m ³	24-hour average not to be exceeded more than once in any 90 consecutive days
	30 µg/m ³	1-hour average not to be exceeded more than once in any 2 consecutive days

Operational Limitation/Equipment Specifications:

Permit Condition (EU0080 and EU0090)-001 established that the sulfur content of the jet fuel combusted in the test cells at the installation shall not exceed 0.29 percent by weight.

Monitoring/Recordkeeping/Reporting:

The Monitoring/Recordkeeping/Reporting requirements of Permit Condition (EU0080 and EU0090)-001 will ensure that these emission units will be in compliance. Attachment P contains calculations demonstrating this compliance. The permittee shall keep Attachment P with this permit. These records shall be made available immediately for inspection to the Department of Natural Resources' personnel upon their verbal request and presentation of identification.

EU0100 and EU0110 – TEST CELLS 2 AND 1			
Emission Unit	Description	Manufacturer/ Model #	2007 EIQ Reference #
EU0100	Test Cell 2: test cell in which uninstalled engines are mounted and undergo testing to determine if they meet performance specifications; construction date 1982	Custom	P-5D
EU0110	Test Cell 1: test cell in which uninstalled engines are mounted and undergo testing to determine if they meet performance specifications; construction date 1982	Custom	P-5E

PERMIT CONDITION (EU0100 and EU0110)-001
10 CSR 10-6.060 Construction Permits Required
Construction Permit 122004-009, Issued December 20, 2004

Operational Specifications:

The sulfur content of the jet fuel combusted in the test cells at the installation shall not exceed 0.29 percent by weight. [Construction Permit 122004-009, Special Condition 11]

Monitoring/Recordkeeping:

Premier Turbines shall obtain, for each fuel oil delivery, from fuel vendors or conduct their own fuel analysis to evaluate the typical sulfur content weight percent for the jet fuel. The fuel consumption records and statement shall be kept on-site for five (5) years and shall be made immediately available to the Missouri Department of Natural resources' personnel upon request. [Construction Permit 122004-009, Special Condition 11]

Reporting:

- 1) The permittee shall report to the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than ten (10) days after the permittee determined that the sulfur content of the jet fuel combusted in the test cells exceeded 0.29 percent by weight.
- 2) The permittee shall report any deviations/exceedances of this permit condition using the semi-annual monitoring report and annual compliance certification to the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, as required by 10 CSR 10-6.065(5)(C)1.B.

PERMIT CONDITION (EU0100 and EU0110)-002
10 CSR 10-6.260 Restriction of Emission of Sulfur Compounds

Emission Limitations:

- 1) Emissions from any new source operation shall not contain more than five hundred parts per million by volume (500 ppmv) of sulfur dioxide.
- 2) Stack gasses shall not contain more than thirty-five milligrams (35 mg) per cubic meter of sulfuric acid or sulfur trioxide or any combination of those gases averaged on any consecutive three hour time period.
- 3) No person shall cause or permit the emission of sulfur compounds from any source which causes or contributes to concentrations exceeding those specified in 10 CSR 10-6.010 Ambient Air Quality Standards.

Pollutant	Concentration by Volume	Remarks
Sulfur Dioxide (SO ₂)	0.03 parts per million (ppm) (80 micrograms per cubic meter (µg/m ³))	Annual arithmetic mean
	0.14 ppm (365 µg/m ³)	24-hour average not to be exceeded more than once per year
	0.5 ppm (1300 µg/m ³)	3-hour average not to be exceeded more than once per year
Hydrogen Sulfide (H ₂ S)	0.05 ppm (70 µg/m ³)	½-hour average not to be exceeded over 2 times per year
	0.03 ppm (42 µg/m ³)	½-hour average not to be exceeded over 2 times in any 5 consecutive days
Sulfuric Acid (H ₂ SO ₄)	10 µg/m ³	24-hour average not to be exceeded more than once in any 90 consecutive days
	30 µg/m ³	1-hour average not to be exceeded more than once in any 2 consecutive days

Operational Limitation/Equipment Specifications:

Permit Condition (EU0100 and EU0110)-001 established that the sulfur content of the jet fuel combusted in the test cells at the installation shall not exceed 0.29 percent by weight.

Monitoring/Recordkeeping/Reporting:

The Monitoring/Recordkeeping/Reporting requirements of Permit Condition (EU0100 and EU0110)-001 will ensure that these emission units will be in compliance. Attachment P contains calculations demonstrating this compliance. The permittee shall keep Attachment P with this permit. These records shall be made available immediately for inspection to the Department of Natural Resources' personnel upon their verbal request and presentation of identification.

EU0120 AND EU0130 – ERIE CITY BOILERS 1 AND 2			
Emission Unit	Description	Manufacturer/Model #	2007 EIQ Reference #
EU0120	Erie City Boiler 1: combustion boiler; primary fuel natural gas; secondary fuel distillate oil; MHDR 20 MMBtu/hr; construction date 1956	Erie	P-6A
EU0130	Erie City Boiler 2: combustion boiler; primary fuel natural gas; secondary fuel distillate oil; MHDR 20 MMBtu/hr; construction date 1956	Erie	P-6B

PERMIT CONDITION (EU0120 and EU0130)-001
10 CSR 10-3.060 Maximum Allowable Emissions of Particulate Matter from Fuel Burning Equipment Used for Indirect Heating

Emission Limitation:

The permittee shall not emit particulate matter from Erie City Boilers 1 and 2 (EU0120 and EU0130) in excess of 9.4 pounds per hour each (0.47 lb/MMBtu).

Operational Limitations:

Erie City Boilers 1 and 2 (EU0120 and EU0130) shall be limited to burning pipeline grade natural gas or distillate fuel oil.

Monitoring/Recordkeeping:

- 1) The permittee shall maintain documentation supporting that the fuel used in these emission units is pipeline grade natural gas or distillate fuel oil.
- 2) The permittee will be in compliance with this regulation as long as these emission units burn only natural gas or distillate fuel oil. Calculations demonstrating this are in Attachment Q. The permittee shall keep Attachment Q with this permit.

Reporting:

The permittee shall report any deviations/exceedances of this permit condition using the semi-annual monitoring report and annual compliance certification to the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, as required by 10 CSR 10-6.065(5)(C)1.B.

PERMIT CONDITION (EU0120 and EU0130)-002
10 CSR 10-6.220 Restriction of Emission of Visible Air Contaminants

Emission Limitations:

- 1) No owner or other person shall cause or permit to be discharged into the atmosphere from any existing source any visible emissions with an opacity greater than 40%.
- 2) Exception: A person may discharge into the atmosphere from any source of emissions for a period(s) aggregating not more than six (6) minutes in any 60 minutes air contaminants with an opacity up to 60%.

Monitoring:

- 1) The permittee shall conduct opacity readings on these emission units using the procedures contained in U.S. EPA Test Method 22. At a minimum, the observer should be trained and knowledgeable about the effects on visibility of emissions caused by background contrast, ambient lighting, observer position relative to lighting, wind and the presence of uncombined water. Readings are only required when the emission unit is operating and when the weather conditions allow. If no visible or other significant emissions are observed using these procedures, then no further observations would be required. For emission units with visible emissions perceived or believed to exceed the applicable opacity standard, the source representative would then conduct a Method 9 observation.
- 2) The following monitoring schedule must be maintained:
 - a) Weekly observations shall be conducted for a minimum of eight (8) consecutive weeks after permit issuance. Should no violation of this regulation be observed during this period then-
 - b) Observations must be made once every two (2) weeks for a period of eight (8) weeks. If a violation is noted, monitoring reverts to weekly. Should no violation of this regulation be observed during this period then-
 - c) Observations must be made once per month. If a violation is noted, monitoring reverts to weekly.
- 3) If the source reverts to weekly monitoring at any time, monitoring frequency will progress in an identical manner from the initial monitoring frequency.

Recordkeeping:

- 1) The permittee shall maintain records of all observation results (see Attachment I-1 or I-2), noting:
 - a) Whether any air emissions (except for water vapor) were visible from the emission units,
 - b) All emission units from which visible emissions occurred, and
 - c) Whether the visible emissions were normal for the process.
- 2) The permittee shall maintain records of any equipment malfunctions. (see Attachment J)
- 3) The permittee shall maintain records of any Method 9 test performed in accordance with this permit condition. (see Attachment K)
- 4) Attachments I-1, I-2, J and K contain logs including these recordkeeping requirements. These logs, or equivalent forms created by the permittee, must be used to certify compliance with this requirement.
- 5) All records shall be maintained for five (5) years. They shall be kept onsite for at least two (2) years. They may be kept in either hard-copy form or on computer media.
- 6) These records shall be made available immediately for inspection to the Department of Natural Resources' personnel upon their verbal request and presentation of identification.

Reporting:

- 1) The permittee shall report to the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than ten (10) days after the permittee determined using the Method 9 test that the emission unit exceeded the opacity limit.
- 2) The permittee shall report any deviations/exceedances of this permit condition using the semi-annual monitoring report and annual compliance certification to the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, as required by 10 CSR 10-6.065(5)(C)1.B.

PERMIT CONDITION (EU0120 and EU0130)-003
10 CSR 10-6.260 Restriction of Emission of Sulfur Compounds

Emission Limitations:

- 1) No person shall cause or allow emissions of sulfur dioxide into the atmosphere from any indirect heating source in excess of eight pounds of sulfur dioxide per million BTUs actual heat input averaged on any consecutive three hour time period
- 2) No person shall cause or permit the emission of sulfur compounds from any source which causes or contributes to concentrations exceeding those specified in 10 CSR 10-6.010 Ambient Air Quality Standards.

Pollutant	Concentration by Volume	Remarks
Sulfur Dioxide (SO ₂)	0.03 parts per million (ppm) (80 micrograms per cubic meter (µg/m ³))	Annual arithmetic mean
	0.14 ppm (365 µg/m ³)	24-hour average not to be exceeded more than once per year
	0.5 ppm (1300 µg/m ³)	3-hour average not to be exceeded more than once per year
Hydrogen Sulfide (H ₂ S)	0.05 ppm (70 µg/m ³)	½-hour average not to be exceeded over 2 times per year

Pollutant	Concentration by Volume	Remarks
	0.03 ppm (42 $\mu\text{g}/\text{m}^3$)	1/2-hour average not to be exceeded over 2 times in any 5 consecutive days
Sulfuric Acid (H_2SO_4)	10 $\mu\text{g}/\text{m}^3$	24-hour average not to be exceeded more than once in any 90 consecutive days
	30 $\mu\text{g}/\text{m}^3$	1-hour average not to be exceeded more than once in any 2 consecutive days

Operational Limitation:

The emission unit shall be limited to burning either pipeline grade natural gas or fuel oil with a sulfur content of 0.5 percent by weight or less.

Monitoring/Recordkeeping:

- 1) The permittee shall maintain an accurate record of the sulfur content of fuel oil used. Fuel purchase receipts, analyzed samples or certifications that verify the fuel type and sulfur content will be acceptable.
- 2) All records shall be maintained for the most recent five years. They must be maintained onsite for at least two years. They may be kept in either hard-copy form or on computer media.
- 3) These records shall be made available immediately for inspection to the Department of Natural Resources' personnel upon their verbal request and presentation of identification

Reporting:

The permittee shall report any deviations/exceedances of this permit condition using the semi-annual monitoring report and annual compliance certification to the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, as required by 10 CSR 10-6.065(5)(C)1.B.

EU0140 – MANUAL THERMAL SPRAY STATION 1 EU0150 – MANUAL THERMAL SPRAY STATION 2 EU0160 – ROBOTIC FLAME SPRAY STATION			
Emission Unit	Description	Manufacturer/ Model #	2007 EIQ Reference #
EU0140	Manual Thermal Spray Station 1: Booth 2, manual flame spray operation in which electrical energy is applied to metal powder or wire to render it molten and, the molten metal is sprayed onto parts; vented to cartridge collector (CD-30A); MHDR 25 lb/hr; construction date 1982	NA	P-30A
EU0150	Manual Thermal Spray Station 2: Booth 3, manual flame spray operation in which energy electrical energy is applied to metal powder or wire to render it molten and, the molten metal is sprayed onto parts; vented to cartridge collector (CD-30B); MHDR 25 lb/hr; construction date 1982	NA	P-30B
EU0160	Robotic Flame Spray Station: robotic flame spray operation in which chemical energy is applied to metal powder or wire to render it molten and, the molten metal is sprayed onto parts; vented to cartridge collector (CD-30C); MHDR 25 lb/hr; construction date 1999	Miller Thermal Inc	NA

<p>PERMIT CONDITION (EU0140 through EU0160)-001 10 CSR 10-6.060 Construction Permits Required Construction Permit 122004-009, Issued December 20, 2004</p>

Emission Limitation:

- 1) Premier Turbines shall emit less than 15 tons of particulate matter less than ten (10) microns in diameter (PM₁₀) in any consecutive 12 month period from the Test Cells 6 and 5 (EU0080 and EU0090) and the plasma/flame spray booths (EU0140 through EU0160). [Note: This emission limitation is also listed in Permit Condition (EU0080 and EU0090)-001] [Construction Permit 122004-009, Special Condition 3.A]
- 2) Premier Turbines shall consume less than 48 pounds of chromium in the plasma/flame spray booths operations (EU0140 through EU0160) in any consecutive 24-hour period. [Construction Permit 122004-009, Special Condition 8.A]
- 3) Premier Turbines shall consume less than 1.46 tons of chromium in the plasma/flame spray booths operations (EU0140 through EU0160) in any consecutive 12-month period. [Construction Permit 122004-009, Special Condition 8.B]

Operational Specifications:

- 1) Premier Turbines shall install cartridge collectors on the plasma/flame booths (EU0140 through EU0160) to control the particulate matter less than ten (10) microns in diameter (PM₁₀) emission from these sources as specified in the permit application for Construction Permit 122004-009. [Construction Permit 122004-009, Special Condition 10.A]
- 2) The cartridge collectors shall be operated and maintained in accordance with the manufacturer's specifications. The cartridge collectors shall be equipped with a gauge or meter, which indicates the pressure drop across the control device. These gauges or meters shall be located such that Missouri Department of Natural Resources' employees may easily observe them. Replacement filters for the

cartridge collectors shall be kept on hand at all times. [Construction Permit 122004-009, Special Condition 10.B]

Monitoring/Recordkeeping:

- 1) Premier Turbines shall maintain an accurate record of PM₁₀ emitted into the atmosphere from the Test Cells 6 and 5 (EU0080 and EU0090) and plasma/flame spray booths (EU0140 through EU0160). Attachment L or an equivalent form shall be used for this purpose. Premier Turbines shall maintain all records required by this permit for not less than five (5) years and shall make them available immediately to any Missouri Department of Natural Resources' personnel upon request. [Note: This Monitoring/Recordkeeping requirement is also listed in Permit Condition (EU0080 and EU0090)-001.] [Construction Permit 122004-009, Special Condition 3.B]
- 2) Attachment R and Attachment S or equivalent forms approved by the Air Pollution Control Program (APCP) shall be used to demonstrate compliance with the chromium consumption limit. Premier Turbines shall maintain all records required by this permit for not less than five (5) years and shall make them available immediately to any Missouri Department of Natural Resources' personnel upon request. These records shall include Material Safety Sheets for all chromium containing materials used in the plasma/flame spray booth operations. [Construction Permit 122004-009, Special Condition 8.C]
- 3) Premier shall monitor and record the operating pressure drop across the cartridge collectors at least once every 24 hours. The operating pressure drop shall be maintained within the design conditions specified by the manufacturer's performance warranty. [Construction Permit 122004-009, Special Condition 10.C]
- 4) Premier Turbines shall maintain an operating and maintenance log for the cartridge collectors which shall include the following: [Construction Permit 122004-009, Special Condition 10.D]
 - a) Incidents of malfunction, with impact on emission, duration of event, probable cause, and corrective actions; and
 - b) Maintenance activities, with inspection schedule, repair actions, and replacements, etc.
- 5) Records may be kept in either written or electronic format. Premier Turbines shall maintain all records required by this permit for not less than five (5) years and shall make them available immediately to any Missouri Department of Natural Resources' personnel upon request.

Reporting:

- 1) Premier Turbines shall report to the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, Missouri 65102, no later than ten (10) days after the end of the month during which records indicate that the source exceeds the emission limitations listed in this permit condition. [Note: This Reporting requirement is also listed in Permit Condition (EU0080 and EU0090)-001.] [Construction Permit 122004-009, Special Condition 3.C]
- 2) Premier Turbines shall report to the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, Missouri 65102, no later than ten (10) days after the end of the month during which records indicate that the source exceeds the chromium consumption limitation listed in this permit condition. [Construction Permit 122004-009, Special Condition 8.D]

<p style="text-align: center;">PERMIT CONDITION (EU0140 through EU0160)-002 10 CSR 10-6.220 Restriction of Emission of Visible Air Contaminants</p>
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Emission Limitations:

- 1) No owner or other person shall cause or permit to be discharged into the atmosphere from any new source any visible emissions with an opacity greater than 20%.

- 2) Exception: A person may discharge into the atmosphere from any source of emissions for a period(s) aggregating not more than six (6) minutes in any 60 minutes air contaminants with an opacity up to 60%.

Monitoring:

- 1) The permittee shall conduct opacity readings on these emission units using the procedures contained in U.S. EPA Test Method 22. At a minimum, the observer should be trained and knowledgeable about the effects on visibility of emissions caused by background contrast, ambient lighting, observer position relative to lighting, wind and the presence of uncombined water. Readings are only required when the emission unit is operating and when the weather conditions allow. If no visible or other significant emissions are observed using these procedures, then no further observations would be required. For emission units with visible emissions perceived or believed to exceed the applicable opacity standard, the source representative would then conduct a Method 9 observation.
- 2) The following monitoring schedule must be maintained:
 - a) Weekly observations shall be conducted for a minimum of eight (8) consecutive weeks after permit issuance. Should no violation of this regulation be observed during this period then-
 - b) Observations must be made once every two (2) weeks for a period of eight (8) weeks. If a violation is noted, monitoring reverts to weekly. Should no violation of this regulation be observed during this period then-
 - c) Observations must be made once per month. If a violation is noted, monitoring reverts to weekly.
- 3) If the source reverts to weekly monitoring at any time, monitoring frequency will progress in an identical manner from the initial monitoring frequency.

Recordkeeping:

- 1) The permittee shall maintain records of all observation results (see Attachment I-1 or I-2), noting:
 - a) Whether any air emissions (except for water vapor) were visible from the emission units,
 - b) All emission units from which visible emissions occurred, and
 - c) Whether the visible emissions were normal for the process.
- 2) The permittee shall maintain records of any equipment malfunctions. (see Attachment J)
- 3) The permittee shall maintain records of any Method 9 test performed in accordance with this permit condition. (see Attachment K)
- 4) Attachments I-1, I-2, J and K contain logs including these recordkeeping requirements. These logs, or equivalent forms created by the permittee, must be used to certify compliance with this requirement.
- 5) All records shall be maintained for five (5) years. They shall be kept onsite for at least two (2) years. They may be kept in either hard-copy form or on computer media.
- 6) These records shall be made available immediately for inspection to the Department of Natural Resources' personnel upon their verbal request and presentation of identification.

Reporting:

- 1) The permittee shall report to the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than ten (10) days after the permittee determined using the Method 9 test that the emission unit exceeded the opacity limit.
- 2) The permittee shall report any deviations/exceedances of this permit condition using the semi-annual monitoring report and annual compliance certification to the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, as required by 10 CSR 10-6.065(5)(C)1.B.

PERMIT CONDITION (EU0140 through EU0160)-003

10 CSR 10-6.400 Restriction of Emission of Particulate Matter from Industrial Processes

Emission Limitation:

- 1) Particulate matter shall not be emitted from plasma/flame spray booths (EU0140 through EU0160) in excess of 0.5 pounds per hour.
- 2) The concentration of particulate matter in the exhaust gases shall not exceed 0.30 grains per standard cubic feet of exhaust gases.

Monitoring/Recordkeeping/Reporting:

The Operational Specifications/Monitoring/Recordkeeping/Reporting requirements of Permit Condition (EU0140 through EU0160)-001 will ensure that these emission units will be in compliance. The Statement of Basis contains calculations demonstrating this compliance. The permittee shall keep the Statement of Basis with this permit. These records shall be made available immediately for inspection to the Department of Natural Resources' personnel upon their verbal request and presentation of identification.

PERMIT CONDITION (EU0140 through EU0160)-004

10 CSR 10-6.075 Maximum Achievable Control Technology Regulations
40 CFR Part 63 Subpart A General Provisions and Subpart WWWW National Emission Standards for Hazardous Air Pollutants: Area Source Standards for Plating and Polishing Operations

Note:

- 1) This Permit Condition is not applicable until the compliance date of July 1, 2010.
- 2) Sections of Subpart WWWW regarding new affected permanent thermal spraying operations are not included below because the facility's thermal spraying operations are existing (i.e. construction was commenced prior to March 14, 2008).
- 3) Sections of Subpart WWWW regarding temporary thermal spraying operations are not included below because the facility does not operate temporary thermal spraying operations.
- 4) Sections of Subpart WWWW regarding dry mechanical polishing equipment are not included below because the facility does not operate dry polishing mechanical equipment on finished metals and formed products after plating with any of the plating and polishing metal HAP.

Operational Specifications:

- 1) For existing permanent thermal spraying operations, the permittee must operate a capture system that collects PM emissions from the thermal spraying process and transports the emissions to a water curtain, fabric filter, or HEPA filter, according to §63.11507(f)(1)(i) and (ii). [§63.11507(f)(1)]
 - a) The permittee must operate all capture and control devices according to the manufacturer's specifications and instructions. [§63.11507(f)(1)(i)]
 - b) The permittee must keep the manufacturer's operating instructions at the facility at all times in a location where they can be easily accessed by the operators. [§63.11507(f)(1)(ii)]

Monitoring/Recordkeeping:

- 1) The permittee must comply with the requirements of the General Provisions (40 CFR Part 63, Subpart A) according to Table 1 of Subpart WWWW. [§63.11510]
- 2) *Initial Compliance.* To demonstrate initial compliance, the permittee must satisfy the requirements specified below. [§63.11508(c)]

- a) The permittee must demonstrate initial compliance according to §63.11508(c)(9)(i) through (iii). [§63.11508(c)(9)]
 - i) The permittee must install a control system that is designed to capture PM emissions from the thermal spraying operation and exhaust them to a water curtain, fabric filter, or HEPA filter. [§63.11508(c)(9)(i)]
 - ii) The permittee must state in the Notification of Compliance Status that they have installed and are operating the control system according to the manufacturer's specifications and instructions. [§63.11508(c)(9)(ii)]
 - iii) The permittee must keep the manufacturer's operating instructions at the facility at all times in a location where they can be easily accessed by the operators. [§63.11508(c)(9)(iii)]
- 3) *Continuous Compliance.* To demonstrate continuous compliance with the applicable management practices and equipment standards specified in Subpart WWWW, the permittee must satisfy the requirements specified below. [§63.11508(d)]
 - a) The permittee must always operate and maintain the affected source, including air pollution control equipment. [§63.11508(d)(1)]
 - b) The permittee must prepare an annual compliance certification according to the requirements specified in §63.11509(c), "Notification, Reporting, and Recordkeeping," and keep it in a readily-accessible location for inspector review. [§63.11508(d)(2)]
 - c) The permittee must demonstrate continuous compliance according to §63.11508(d)(4)(i) through (v) of this Section. [§63.11508(d)(4)]
 - i) The permittee must operate and maintain the control system according to the manufacturer's specifications and instructions. [§63.11508(d)(4)(i)]
 - ii) Following any malfunction or failure of the capture or control devices to operate properly, the permittee must take immediate corrective action to return the equipment to normal operation according to the manufacturer's specifications and operating instructions. [§63.11508(d)(4)(ii)]
 - iii) The permittee must state in the annual certification that they have operated and maintained the control system according to the manufacturer's specifications and instructions. [§63.11508(d)(4)(iii)]
 - iv) The permittee must record the results of all control system inspections, deviations from proper operation, and any corrective action taken. [§63.11508(d)(4)(iv)]
 - v) The permittee must keep the manufacturer's operating instructions at the facility at all times in a location where they can be easily accessed by the operators. [§63.11508(d)(4)(v)]
- 4) The permittee must keep the records specified in §63.11509(e)(1) through (3). [§63.11509(e)]
 - a) A copy of any Initial Notification and Notification of Compliance Status that they submitted and all documentation supporting those notifications. [§63.11509(e)(1)]
 - b) The records specified in §63.10(b)(2)(i) through (iii) and (xiv) of the General Provisions of Part 60. [§63.11509(e)(2)]
 - c) The records required to show continuous compliance with each management practice and equipment standard that applies, as specified in §63.11508(d), "What are my compliance requirements?" [§63.11509(e)(3)]
- 5) The permittee must keep each record for a minimum of 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. The permittee must keep each record onsite for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to §63.10(b)(1) of the General Provisions to Part 63. The permittee may keep the records offsite for the remaining 3 years. [§63.11509(f)]

Reporting:

- 1) The permittee must submit a Notification of Compliance Status in accordance with §63.11509(b)(1) and (2). [§63.11509(b)]
 - a) The Notification of Compliance Status must be submitted before the close of business on July 1, 2010. [§63.11509(b)(1)]
 - b) The Notification of Compliance Status must include the items specified in §63.11509(b)(2)(i) through (iv). [§63.11509(b)(2)]
 - i) List of affected sources and the plating and polishing metal HAP used in, or emitted by, those sources. [§63.11509(b)(2)(i)]
 - ii) Methods used to comply with the applicable management practices and equipment standards. [§63.11509(b)(2)(ii)]
 - iii) Description of the capture and emission control systems used to comply with the applicable equipment standards. [§63.11509(b)(2)(iii)]
 - iv) Statement by the owner or operator of the affected source as to whether the source is in compliance with the applicable standards or other requirements. [§63.11509(b)(2)(iv)]
- 2) The permittee must prepare an annual certification of compliance report according to §63.11509(c)(2) and (7). These reports do not need to be submitted unless a deviation from the requirements of Subpart WWWW has occurred during the reporting year, in which case, the annual compliance report must be submitted along with the deviation report. [§63.11509(c)]
 - a) The permittee must state in the annual certification that the permittee has operated and maintained the control system according to the manufacturer's specifications and instructions. [§63.11509(c)(2)(iii)]
 - b) Each annual compliance report must be prepared no later than January 31 of the year immediately following the reporting period and kept in a readily-accessible location for inspector review. If a deviation has occurred during the year, each annual compliance report must be submitted along with the deviation report, and postmarked or delivered no later than January 31 of the year immediately following the reporting period. [§63.11509(c)(7)]
- 3) If any deviations from the compliance requirements specified in Subpart WWWW occurred during the year, the permittee must report the deviations, along with the corrective action taken, and submit this report to the delegated authority. [§63.11509(d)]

EU0170 THROUGH EU0240 – ELECTROLYTIC PROCESS TANKS			
Emission Unit	Description	Manufacturer/ Model #	2007 EIQ Reference #
EU0170	Tank 11: Enprep 214 cyanide nickel plating tank; working volume 180 gallons	NA	NA
EU0180	Tanks 9A and 9B: nickel plating rinse tanks	NA	NA
EU0190	Tank 65: acid etch (HF/H ₂ SO ₄) nickel plating tank; working volume 160 gallons	NA	NA
EU0200	Tank 68: nickel strike nickel plating tank; working volume 400 gallons	NA	NA
EU0210	Tank 26: cadmium plating tank; working volume 180 gallons	NA	NA
EU0220	Cyanide Rinse Tank: used in cadmium plating process	NA	NA
EU0230	Tank 48: cooper plating tank; working volume 200 gallons	NA	NA
EU0240	Cooper Post Rinse Tank: used in cooper plating process	NA	NA

PERMIT CONDITION (EU0170 through EU0240)-001

10 CSR 10-6.075 Maximum Achievable Control Technology Regulations
40 CFR Part 63 Subpart A General Provisions and Subpart WWWW National Emission
Standards for Hazardous Air Pollutants: Area Source Standards for Plating and Polishing Operations

Note:

- 1) This Permit Condition is not applicable until the compliance date of July 1, 2010.
- 2) Sections of Subpart WWWW regarding dry mechanical polishing equipment are not included below because the facility does not operate dry polishing mechanical equipment on finished metals and formed products after plating with any of the plating and polishing metal HAP.

Operational Specifications:

- 1) *Non-Cyanide Electrolytic Process Tank with pH < 12.* The permittee must comply with the requirements in §63.11507(a)(1), (2), or (3), and implement the applicable management practices in §63.11507(g), as practicable. [§63.11507(a)]
 - a) The permittee must use a wetting agent/fume suppressant, as defined in §63.11511, “What definitions apply to this subpart?”, in the bath of the affected tank according to §63.11507(a)(1)(i) through (iii). [§63.11507(a)(1)]
 - i) The permittee must initially add the wetting agent/fume suppressant in the amounts recommended by the manufacturer for the specific type of electrolytic process. [§63.11507(a)(1)(i)]
 - ii) The permittee must add wetting agent/fume suppressant in proportion to the other bath chemistry ingredients that are added to replenish the tank bath, as in the original make-up of the tank. [§63.11507(a)(1)(ii)]
 - iii) If a wetting agent/fume suppressant is included in the electrolytic process bath chemicals used in the affected tank according to the manufacturer's instructions, it is not necessary to add additional wetting agent/fume suppressants to the tank to comply with this rule. [§63.11507(a)(1)(iii)]
 - b) The permittee must capture and exhaust emissions from the affected tank to any one of the following emission control devices: composite mesh pad, packed bed scrubber, or mesh pad mist eliminator, according to §63.11507(a)(2)(i) and (ii). [§63.11507(a)(2)]
 - i) The permittee must operate all capture and control devices according to the manufacturer's specifications and operating instructions. [§63.11507(a)(2)(i)]
 - ii) The permittee must keep the manufacturer's specifications and operating instructions at the facility at all times in a location where they can be easily accessed by the operators. [§63.11507(a)(2)(ii)]
 - c) The permittee must cover the tank surface according to §63.11507(a)(3)(i) or (ii). [§63.11507(a)(3)]
 - i) For batch electrolytic process tanks, the permittee must use a tank cover, as defined in §63.11511, over all of the effective surface area of the tank for at least 95 percent of the electrolytic process operating time. [§63.11507(a)(3)(i)]
 - ii) For continuous electrolytic process tanks, the permittee must cover at least 75 percent of the surface of the tank, as defined in §63.11511, whenever the electrolytic process tank is in operation. [§63.11507(a)(3)(ii)]
- 2) *“Flash” or Short-Term Electroplating Tank.* The permittee must comply with the requirements specified in §63.11507(b)(1) or (b)(2), and implement the applicable management practices in §63.11507(g), as practicable. [§63.11507(b)]

- a) The permittee must limit short-term or “flash” electroplating to no more than 1 cumulative hour per day or 3 cumulative minutes per hour of plating time. [§63.11507(b)(1)]
- b) The permittee must use a tank cover, as defined in §63.11511, “What definitions apply to this subpart?”, for at least 95 percent of the plating time. [§63.11507(b)(2)]
- 3) *Process Tank Used Both for Short-Term and Longer Duration Electroplating.* The permittee must meet the requirements specified in §63.11507(a) or (b), whichever apply to the process operation, and implement the applicable management practices in §63.11507(g), as practicable. [§63.11507(c)]
- 4) *Electroplating Tank Using Cyanide in the Plating Bath with pH ≥ 12.* The permittee must comply with the requirements in §63.11507(d)(1) and (2): [§63.11507(d)]
 - a) The permittee must measure and record the pH of the tank upon start-up. No additional pH measurements are required. [§63.11507(d)(1)]
 - b) The permittee must implement the applicable management practices in §63.11507(g), as practicable. [§63.11507(d)(2)]
- 5) *Management Practices.* The permittee must implement the applicable management practices in §63.11507(g)(1) through (12), as practicable. [§63.11507(g)]
 - a) Minimize bath agitation when removing any parts processed in the tank, as practicable except when necessary to meet part quality requirements. [§63.11507(g)(1)]
 - b) Maximize the draining of bath solution back into the tank, as practicable, by extending drip time when removing parts from the tank; using drain boards (also known as drip shields); or withdrawing parts slowly from the tank, as practicable. [§63.11507(g)(2)]
 - c) Optimize the design of barrels, racks, and parts to minimize dragout of bath solution (such as by using slotted barrels and tilted racks, or by designing parts with flow-through holes to allow the tank solution to drip back into the tank), as practicable. [§63.11507(g)(3)]
 - d) Use tank covers, if already owned and available at the facility, whenever practicable. [§63.11507(g)(4)]
 - e) Minimize or reduce heating of process tanks, as practicable (e.g., when doing so would not interrupt production or adversely affect part quality). [§63.11507(g)(5)]
 - f) Perform regular repair, maintenance, and preventive maintenance of racks, barrels, and other equipment associated with affected sources, as practicable. [§63.11507(g)(6)]
 - g) Minimize bath contamination, such as through the prevention or quick recovery of dropped parts, use of distilled/de-ionized water, water filtration, pre-cleaning of parts to be plated, and thorough rinsing of pre-treated parts to be plated, as practicable. [§63.11507(g)(7)]
 - h) Maintain quality control of chemicals, and chemical and other bath ingredient concentrations in the tanks, as practicable. [§63.11507(g)(8)]
 - i) Perform general good housekeeping, such as regular sweeping or vacuuming, if needed, and periodic washdowns, as practicable. [§63.11507(g)(9)]
 - j) Minimize spills and overflow of tanks, as practicable. [§63.11507(g)(10)]
 - k) Use squeegee rolls in continuous or reel-to-reel plating tanks, as practicable. [§63.11507(g)(11)]
 - l) Perform regular inspections to identify leaks and other opportunities for pollution prevention. [§63.11507(g)(12)]

Monitoring:

- 1) The permittee must comply with the requirements of the General Provisions (40 CFR Part 63, Subpart A) according to Table 1 of Subpart WWWW. [§63.11510]
- 2) The permittee must be in compliance with the applicable management practices and equipment standards in Subpart WWWW at all times. [§63.11508(b)]

- 3) *Initial Compliance.* To demonstrate initial compliance, the permittee must satisfy the requirements specified in §63.11508(c)(1) through (11). [§63.11508(c)]
- a) *If You Use a Wetting Agent/Fume Suppressant.* The permittee must demonstrate initial compliance according to §63.11508(c)(1)(i) through (iv). [§63.11508(c)(1)]
- i) The permittee must add wetting agent/fume suppressant to the bath of each affected tank according to manufacturer's specifications and instructions. [§63.11508(c)(1)(i)]
 - ii) The permittee must state in the Notification of Compliance Status that they add wetting agent/fume suppressant to the bath according to manufacturer's specifications and instructions. [§63.11508(c)(1)(ii)]
 - iii) The permittee must implement the applicable management practices specified in §63.11507(g), "What are my standards and management practices?", as practicable. [§63.11508(c)(1)(iii)]
 - iv) The permittee must state in the Notification of Compliance Status that they have implemented the applicable management practices specified in §63.11507(g), "What are my standards and management practices?", as practicable. [§63.11508(c)(1)(iv)]
- b) *If You Use a Control System.* The permittee must demonstrate initial compliance according to §63.11508(c)(2)(i) through (v). [§63.11508(c)(2)]
- i) The permittee must install a control system designed to capture emissions from the affected tank and exhaust them to a composite mesh pad, packed bed scrubber, or mesh pad mist eliminator. [§63.11508(c)(2)(i)]
 - ii) The permittee must state in the Notification of Compliance Status that they have installed the control system according to the manufacturer's specifications and instructions. [§63.11508(c)(2)(ii)]
 - iii) The permittee must implement the applicable management practices specified in §63.11507(g), "What are my standards and management practices?", as practicable. [§63.11508(c)(2)(iii)]
 - iv) The permittee must state in the Notification of Compliance Status that they have implemented the applicable management practices specified in §63.11507(g), "What are my standards and management practices?", as practicable. [§63.11508(c)(2)(iv)]
 - v) The permittee must follow the manufacturer's specifications and operating instructions for the control systems at all times. [§63.11508(c)(2)(v)]
- c) *If You Use a Tank Cover on a Batch Electrolytic Process Tank.* The permittee must demonstrate initial compliance according to §63.11508(c)(3)(i) through (iv). [§63.11508(c)(3)]
- i) The permittee must install a tank cover on the affected tank. [§63.11508(c)(3)(i)]
 - ii) The permittee must state in the Notification of Compliance Status that they operate the tank with the cover in place at least 95 percent of the electrolytic process operating time. [§63.11508(c)(3)(ii)]
 - iii) The permittee must implement the applicable management practices specified in §63.11507(g), "What are my standards and management practices?", as practicable. [§63.11508(c)(3)(iii)]
 - iv) The permittee must state in the Notification of Compliance Status that they have implemented the applicable management practices specified in §63.11507(g), "What are my standards and management practices?", as practicable. [§63.11508(c)(3)(iv)]
- d) *If You Use a Tank Cover on a Continuous Electrolytic Process Tank.* The permittee must demonstrate initial compliance according to §63.11508(c)(4)(i) through (iv). [§63.11508(c)(4)]
- i) The permittee must cover at least 75 percent of the surface area of the affected tank. [§63.11508(c)(4)(i)]

- ii) The permittee must state in the Notification of Compliance Status that they operate the tank with the surface cover in place whenever the continuous electrolytic process is in operation. [§63.11508(c)(4)(ii)]
- iii) The permittee must implement the applicable management practices specified in §63.11507(g), “What are my standards and management practices?”, as practicable. [§63.11508(c)(4)(iii)]
- iv) The permittee must state in the Notification of Compliance Status that they have implemented the applicable management practices specified in §63.11507(g), “What are my standards and management practices?”, as practicable. [§63.11508(c)(4)(iv)]
- e) *If You Limit Plating Time in Flash or Short-Term Electroplating Tank.* The permittee must demonstrate initial compliance according to §63.11508(c)(5)(i) through (iii). [§63.11508(c)(5)]
 - i) The permittee must state in the Notification of Compliance Status that they limit short-term or flash electroplating to no more than 1 cumulative hour per day, or 3 cumulative minutes per hour of plating time. [§63.11508(c)(5)(i)]
 - ii) The permittee must implement the applicable management practices specified in §63.11507(g), “What are my standards and management practices?”, as practicable. [§63.11508(c)(5)(ii)]
 - iii) The permittee must state in the Notification of Compliance Status that they have implemented the applicable management practices specified in §63.11507(g), “What are my standards and management practices?”, as practicable. [§63.11508(c)(5)(iii)]
- f) *If You Use a Tank Cover on a Flash or Short-Term Electroplating Tank.* The permittee must demonstrate initial compliance according to §63.11508(c)(6)(i) through (iv). [§63.11508(c)(6)]
 - i) The permittee must install a tank cover on the affected tank. [§63.11508(c)(6)(i)]
 - ii) The permittee must state in the Notification of Compliance Status that they operate the tank with the cover in place at least 95 percent of the plating time. [§63.11508(c)(6)(ii)]
 - iii) The permittee must implement the applicable management practices specified in §63.11507(g), “What are my standards and management practices?”, as practicable. [§63.11508(c)(6)(iii)]
 - iv) The permittee must state in the Notification of Compliance Status that they have implemented the applicable management practices specified in §63.11507(g), “What are my standards and management practices?”, as practicable. [§63.11508(c)(6)(iv)]
- g) *Tank Using Cyanide in the Plating Bath with pH ≥ 12.* The permittee must demonstrate initial compliance according to §63.11508(c)(7)(i) through (iii). [§63.11508(c)(7)]
 - i) The permittee must report in the Notification of Compliance Status the pH of the bath solution that was measured at start-up, according to the requirements of §63.11507(d)(1). [§63.11508(c)(7)(i)]
 - ii) The permittee must implement the applicable management practices specified in §63.11507(g), “What are my standards and management practices?”, as practicable. [§63.11508(c)(7)(ii)]
 - iii) The permittee must state in the Notification of Compliance Status that they have implemented the applicable management practices specified in §63.11490(g), “What are my standards and management practices?”, as practicable. [§63.11508(c)(7)(iii)]
- 4) *Continuous Compliance.* To demonstrate continuous compliance with the applicable management practices and equipment standards specified in this subpart, the permittee must satisfy the requirements specified in §63.11508(d)(1) through (8). [§63.11508(d)]
 - a) The permittee must always operate and maintain the affected source, including air pollution control equipment. [§63.11508(d)(1)]

- b) The permittee must prepare an annual compliance certification according to the requirements specified in §63.11509(c), “Notification, Reporting, and Recordkeeping,” and keep it in a readily-accessible location for inspector review. [§63.11508(d)(2)]
- c) *If You Use a Wetting Agent/Fume Suppressant.* The permittee must demonstrate continuous compliance according to §63.11508(d)(3)(i) through (iii). [§63.11508(d)(3)]
 - i) The permittee must record that they have added the wetting agent/fume suppressant to the tank bath in the original make-up of the tank. [§63.11508(d)(3)(i)]
 - ii) For tanks where the wetting agent/fume suppressant is a separate purchased ingredient from the other tank additives, the permittee must demonstrate continuous compliance according to §63.11508(d)(3)(ii) (A) and (B). [§63.11508(d)(3)(ii)]
 - (1) The permittee must add wetting agent/fume suppressant in proportion to the other bath chemistry ingredients that are added to replenish the tank bath, as in the original make-up of the tank. [§63.11508(d)(3)(ii)(A)]
 - (2) The permittee must record each addition of wetting agent/fume suppressant to the tank bath. [§63.11508(d)(3)(ii)(B)]
 - iii) The permittee must state in the annual compliance certification that they have added wetting agent/fume suppressant to the bath according to the manufacturer's specifications and instructions. [§63.11508(d)(3)(iii)]
- d) *If You Use a Control System.* The permittee must demonstrate continuous compliance according to §63.11508 (d)(4)(i) through (v). [§63.11508(d)(4)]
 - i) The permittee must operate and maintain the control system according to the manufacturer's specifications and instructions. [§63.11508(d)(4)(i)]
 - ii) Following any malfunction or failure of the capture or control devices to operate properly, the permittee must take immediate corrective action to return the equipment to normal operation according to the manufacturer's specifications and operating instructions. [§63.11508(d)(4)(ii)]
 - iii) The permittee must state in the annual certification that they have operated and maintained the control system according to the manufacturer's specifications and instructions. [§63.11508(d)(4)(iii)]
 - iv) The permittee must record the results of all control system inspections, deviations from proper operation, and any corrective action taken. [§63.11508(d)(4)(iv)]
 - v) The permittee must keep the manufacturer's operating instructions at the facility at all times in a location where they can be easily accessed by the operators. [§63.11508(d)(4)(v)]
- e) *If You Limit Plating Time in Flash or Short-Term Electroplating Tank.* The permittee must demonstrate continuous compliance according to §63.11508(d)(5)(i) through (iii). [§63.11508(d)(5)]
 - i) The permittee must limit short-term or flash electroplating to no more than 1 cumulative hour per day or 3 cumulative minutes per hour of plating time. [§63.11508(d)(5)(i)]
 - ii) The permittee must record the times that the affected tank is operated each day. [§63.11508(d)(5)(ii)]
 - iii) The permittee must state in the annual compliance certification that they have limited short-term or flash electroplating to no more than 1 cumulative hour per day or 3 cumulative minutes per hour of plating time. [§63.11508(d)(5)(iii)]
- f) *If You Use a Tank Cover on a Batch Electrolytic Process Tank.* The permittee must demonstrate continuous compliance according to §63.11508(d)(6)(i) through (iii). [§63.11508(d)(6)]
 - i) The permittee must operate the tank with the cover in place at least 95 percent of the electrolytic process operating time. [§63.11508(d)(6)(i)]

- ii) The permittee must record the times that the tank is operated and the times that the tank is covered on a daily basis. [§63.11508(d)(6)(ii)]
- iii) The permittee must state in the annual certification that they have operated the tank with the cover in place at least 95 percent of the electrolytic process time. [§63.11508(d)(6)(iii)]
- g) *If You Use a Tank Cover on a Flash or Short-Term Electroplating Tank.* The permittee must demonstrate continuous compliance according to §63.11508(d)(6)(i) through (iii). [§63.11508(d)(6)]
 - i) The permittee must operate the tank with the cover in place at least 95 percent of the electrolytic process operating time. [§63.11508(d)(6)(i)]
 - ii) The permittee must record the times that the tank is operated and the times that the tank is covered on a daily basis. [§63.11508(d)(6)(ii)]
 - iii) The permittee must state in the annual certification that they have operated the tank with the cover in place at least 95 percent of the electrolytic process time. [§63.11508(d)(6)(iii)]
- h) *If You Use a Tank Cover on a Continuous Electrolytic Process Tank.* The permittee must demonstrate continuous compliance according to §63.11508(d)(7)(i) and (ii). [§63.11508(d)(7)]
 - i) The permittee must operate the tank with at least 75 percent of the surface covered during all periods of electrolytic process operation. [§63.11508(d)(7)(i)]
 - ii) The permittee must state in the annual certification that they have operated the tank with 75 percent of the surface covered during all periods of electrolytic process operation. [§63.11508(d)(7)(ii)]
- i) The permittee must demonstrate continuous compliance according to §63.11508(d)(8)(i) and (ii). [§63.11508(d)(8)]
 - i) The permittee must implement the applicable management practices during all times that the affected tank or process is in operation. [§63.11508(d)(8)(i)]
 - ii) The permittee must state in the annual compliance certification that they have implemented the applicable management practices, as practicable. [§63.11508(d)(8)(ii)]
- 5) The permittee must keep the records specified in §63.11509(e)(1) through (3). [§63.11509(e)]
 - a) A copy of any Initial Notification and Notification of Compliance Status that the permittee submitted and all documentation supporting those notifications. [§63.11509(e)(1)]
 - b) The records specified in §63.10(b)(2)(i) through (iii) and (xiv) of the General Provisions of Part 60. [§63.11509(e)(2)]
 - c) The records required to show continuous compliance with each management practice and equipment standard that applies, as specified in §63.11508(d), “What are my compliance requirements?” [§63.11509(e)(3)]
 - d) The permittee must keep each record for a minimum of 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. The permittee must keep each record onsite for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to §63.10(b)(1) of the General Provisions to Part 63. The permittee may keep the records offsite for the remaining 3 years. [§63.11509(f)]

Reporting:

- 1) The permittee must submit a Notification of Compliance Status in accordance with §63.11509(b)(1) and (2). [§63.11509(b)]
 - a) The Notification of Compliance Status must be submitted before the close of business on July 1, 2010. [§63.11509(b)(1)]

- b) The Notification of Compliance Status must include the items specified in §63.11509(b)(2)(i) through (iv). [§63.11509(b)(2)]
 - i) List of affected sources and the plating and polishing metal HAP used in, or emitted by, those sources. [§63.11509(b)(2)(i)]
 - ii) Methods used to comply with the applicable management practices and equipment standards. [§63.11509(b)(2)(ii)]
 - iii) Description of the capture and emission control systems used to comply with the applicable equipment standards. [§63.11509(b)(2)(iii)]
 - iv) Statement by the owner or operator of the affected source as to whether the source is in compliance with the applicable standards or other requirements. [§63.11509(b)(2)(iv)]
- 2) The permittee must prepare an annual certification of compliance report according to §63.11509(c)(1) through (7). These reports do not need to be submitted unless a deviation from the requirements of Subpart WWWW has occurred during the reporting year, in which case, the annual compliance report must be submitted along with the deviation report. [§63.11509(c)]
 - a) *If You Use a Wetting Agent/Fume Suppressant.* The permittee must state in the annual compliance certification that they have added wetting agent/fume suppressant to the bath according to the manufacturer's specifications and instructions. [§63.11509(c)(1)]
 - b) *If You Use a Control System.* The permittee must state in the annual certification that they have operated and maintained the control system according to the manufacturer's specifications and instructions. [§63.11509(c)(2)(i)]
 - c) *If You Limit Plating Time in Flash or Short-Term Electroplating Tank.* The permittee must state in the annual compliance certification that they have limited short-term or flash electroplating to no more than 1 cumulative hour per day or 3 cumulative minutes per hour of plating time. [§63.11509(c)(3)]
 - d) *If You Use a Tank Cover on a Flash or Short-Term Electroplating Tank.* The permittee must state in the annual certification that they have operated the tank with the cover in place at least 95 percent of the electrolytic process time. [§63.11509(c)(4)]
 - e) *If You Use a Tank Cover on a Batch Electrolytic Process Tank.* The permittee must state in the annual certification that they have operated the tank with the cover in place at least 95 percent of the electrolytic process time. [§63.11509(c)(4)]
 - f) *If You Use a Tank Cover on a Continuous Electrolytic Process Tank.* The permittee must state in the annual certification that they have covered at least 75 percent of the surface area of the tank during all periods of electrolytic process operation. [§63.11509(c)(5)]
 - g) The permittee must state in the annual compliance certification that they have implemented the applicable management practices, as practicable. [§63.11509(c)(6)]
 - h) Each annual compliance report must be prepared no later than January 31 of the year immediately following the reporting period and kept in a readily-accessible location for inspector review. If a deviation has occurred during the year, each annual compliance report must be submitted along with the deviation report, and postmarked or delivered no later than January 31 of the year immediately following the reporting period. [§63.11509(c)(7)]
- 3) If any deviations from the compliance requirements specified in Subpart WWWW occurred during the year, the permittee must report the deviations, along with the corrective action taken, and submit this report to the delegated authority. [§63.11509(d)]

EU0250 AND EU0260 – ELECTROLESS NICKEL PLATING			
Emission Unit	Description	Manufacturer/ Model #	2007 EIQ Reference #
EU0250	Nitric Acid Tank: electroless nickel plating tank	NA	NA
EU0260	Electroless Nickel Heat Tank: electroless nickel plating tank	NA	NA

PERMIT CONDITION (EU0250 and EU0260)-001
10 CSR 10-6.075 Maximum Achievable Control Technology Regulations
40 CFR Part 63 Subpart A General Provisions and Subpart WWWW National Emission Standards for Hazardous Air Pollutants: Area Source Standards for Plating and Polishing Operations

Note:

- 1) This Permit Condition is not applicable until the compliance date of July 1, 2010.
- 2) Sections of Subpart WWWW regarding dry mechanical polishing equipment are not included below because the facility does not operate dry polishing mechanical equipment on finished metals and formed products after plating with any of the plating and polishing metal HAP.

Operational Specifications:

- 1) The permittee must implement the applicable management practices in §63.11507(g)(1) through (12), as practicable. [§63.11507(g)]
 - a) Minimize bath agitation when removing any parts processed in the tank, as practicable except when necessary to meet part quality requirements. [§63.11507(g)(1)]
 - b) Maximize the draining of bath solution back into the tank, as practicable, by extending drip time when removing parts from the tank; using drain boards (also known as drip shields); or withdrawing parts slowly from the tank, as practicable. [§63.11507(g)(2)]
 - c) Optimize the design of barrels, racks, and parts to minimize dragout of bath solution (such as by using slotted barrels and tilted racks, or by designing parts with flow-through holes to allow the tank solution to drip back into the tank), as practicable. [§63.11507(g)(3)]
 - d) Use tank covers, if already owned and available at the facility, whenever practicable. [§63.11507(g)(4)]
 - e) Minimize or reduce heating of process tanks, as practicable (e.g., when doing so would not interrupt production or adversely affect part quality). [§63.11507(g)(5)]
 - f) Perform regular repair, maintenance, and preventive maintenance of racks, barrels, and other equipment associated with affected sources, as practicable. [§63.11507(g)(6)]
 - g) Minimize bath contamination, such as through the prevention or quick recovery of dropped parts, use of distilled/de-ionized water, water filtration, pre-cleaning of parts to be plated, and thorough rinsing of pre-treated parts to be plated, as practicable. [§63.11507(g)(7)]
 - h) Maintain quality control of chemicals, and chemical and other bath ingredient concentrations in the tanks, as practicable. [§63.11507(g)(8)]
 - i) Perform general good housekeeping, such as regular sweeping or vacuuming, if needed, and periodic washdowns, as practicable. [§63.11507(g)(9)]
 - j) Minimize spills and overflow of tanks, as practicable. [§63.11507(g)(10)]
 - k) Use squeegee rolls in continuous or reel-to-reel plating tanks, as practicable. [§63.11507(g)(11)]
 - l) Perform regular inspections to identify leaks and other opportunities for pollution prevention. [§63.11507(g)(12)]

Monitoring/Recordkeeping:

- 1) The permittee must be in compliance with the applicable management practices and equipment standards in Subpart WWWW at all times. [§63.11508(b)]
- 2) The permittee must demonstrate continuous compliance according to §63.11508(d)(8)(i) and (ii). [§63.11508(d)(8)]
 - a) The permittee must implement the applicable management practices during all times that the affected tank or process is in operation. [§63.11508(d)(8)(i)]
 - b) The permittee must state in the annual compliance certification that they have implemented the applicable management practices, as practicable. [§63.11508(d)(8)(ii)]
- 3) The permittee must keep the records specified in §63.11509(e)(1) through (3). [§63.11509(e)]
 - a) A copy of any Initial Notification and Notification of Compliance Status that the permittee submitted and all documentation supporting those notifications. [§63.11509(e)(1)]
 - b) The records specified in §63.10(b)(2)(i) through (iii) and (xiv) of the General Provisions of Part 60. [§63.11509(e)(2)]
 - c) The records required to show continuous compliance with each management practice and equipment standard that applies, as specified in §63.11508(d), “What are my compliance requirements?” [§63.11509(e)(3)]
 - d) The permittee must keep each record for a minimum of 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. The permittee must keep each record onsite for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to §63.10(b)(1) of the General Provisions to Part 63. The permittee may keep the records offsite for the remaining 3 years. [§63.11509(f)]
- 4) The permittee must keep the records specified in §63.11509(e)(1) through (3). [§63.11509(e)]
 - a) A copy of any Initial Notification and Notification of Compliance Status that the permittee submitted and all documentation supporting those notifications. [§63.11509(e)(1)]
 - b) The records specified in §63.10(b)(2)(i) through (iii) and (xiv) of the General Provisions of Part 60. [§63.11509(e)(2)]
 - c) The records required to show continuous compliance with each management practice and equipment standard that applies, as specified in §63.11508(d), “What are my compliance requirements?” [§63.11509(e)(3)]
 - d) The permittee must keep each record for a minimum of 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. The permittee must keep each record onsite for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to §63.10(b)(1) of the General Provisions to Part 63. The permittee may keep the records offsite for the remaining 3 years. [§63.11509(f)]

Reporting:

- 1) The permittee must submit a Notification of Compliance Status in accordance with §63.11509(b)(1) and (2). [§63.11509(b)]
 - a) The Notification of Compliance Status must be submitted before the close of business on July 1, 2010. [§63.11509(b)(1)]
 - b) The Notification of Compliance Status must include the items specified in §63.11509(b)(2)(i) through (iv). [§63.11509(b)(2)]
 - i) List of affected sources and the plating and polishing metal HAP used in, or emitted by, those sources. [§63.11509(b)(2)(i)]

- ii) Methods used to comply with the applicable management practices and equipment standards. [§63.11509(b)(2)(ii)]
 - iii) Description of the capture and emission control systems used to comply with the applicable equipment standards. [§63.11509(b)(2)(iii)]
 - iv) Statement by the owner or operator of the affected source as to whether the source is in compliance with the applicable standards or other requirements. [§63.11509(b)(2)(iv)]
- 2) The permittee must prepare an annual certification of compliance report according to §63.11509(c)(6) and (7). These reports do not need to be submitted unless a deviation from the requirements of Subpart WWWW has occurred during the reporting year, in which case, the annual compliance report must be submitted along with the deviation report. [§63.11509(c)]
- a) The permittee must state in the annual compliance certification that they have implemented the applicable management practices, as practicable. [§63.11509(c)(6)]
 - b) Each annual compliance report must be prepared no later than January 31 of the year immediately following the reporting period and kept in a readily-accessible location for inspector review. If a deviation has occurred during the year, each annual compliance report must be submitted along with the deviation report, and postmarked or delivered no later than January 31 of the year immediately following the reporting period. [§63.11509(c)(7)]
- 3) If any deviations from the compliance requirements specified in Subpart WWWW occurred during the year, the permittee must report the deviations, along with the corrective action taken, and submit this report to the delegated authority. [§63.11509(d)]

EU0270 – SURFACE PREPARATION OPERATION USING MeCl			
Emission Unit	Description	Manufacturer/ Model #	2007 EIQ Reference #
EU0270	Surface Preparation Operation Using MeCl: paint stripping using methylene chloride (MeCl)	NA	P-3E

PERMIT CONDITION EU0270-001
 10 CSR 10-6.075 Maximum Achievable Control Technology Regulations
 40 CFR Part 63 Subpart A General Provisions and Subpart HHHHHH National Emission Standards for Hazardous Air Pollutants: Paint Stripping and Miscellaneous Surface Coating Operations at Area Sources

Note: This Permit Condition is not applicable until the compliance date of January 10, 2011. With the exception that the permittee must submit the initial notification required by §63.9(b) and §63.11175(a) no later than January 11, 2010.

Work Practice Standards:

- 1) The affected source is the collection of all of the items listed in §63.11171(b)(1) through (6). The permittee may not have all of the items listed in §63.11171(b)(1) through (5). [§63.11171(b)]
 - a) Mixing rooms and equipment; [§63.11171(b)(1)]
 - b) Spray booths, ventilated prep stations, curing ovens, and associated equipment; [§63.11171(b)(2)]
 - c) Spray guns and associated equipment; [§63.11171(b)(3)]
 - d) Spray gun cleaning equipment; [§63.11171(b)(4)]
 - e) Equipment used for storage, handling, recovery, or recycling of cleaning solvent or waste paint; and [§63.11171(b)(5)]

- 2) Each paint stripping operation that is an affected area source must implement management practices to minimize the evaporative emissions of MeCl. The management practices must address, at a minimum, the practices in §63.11173(a)(1) through (5), as applicable, for your operations. [§63.11173(a)]
 - a) Evaluate each application to ensure there is a need for paint stripping (e.g., evaluate whether it is possible to re-coat the piece without removing the existing coating). [§63.11173(a)(1)]
 - b) Evaluate each application where a paint stripper containing MeCl is used to ensure that there is no alternative paint stripping technology that can be used. [§63.11173(a)(2)]
 - c) Reduce exposure of all paint strippers containing MeCl to the air. [§63.11173(a)(3)]
 - d) Optimize application conditions when using paint strippers containing MeCl to reduce MeCl evaporation (e.g., if the stripper must be heated, make sure that the temperature is kept as low as possible to reduce evaporation). [§63.11173(a)(4)]
 - e) Practice proper storage and disposal of paint strippers containing MeCl (e.g., store stripper in closed, air-tight containers). [§63.11173(a)(5)]
- 3) Each paint stripping operation that has annual usage of more than one ton of MeCl must develop and implement a written MeCl minimization plan to minimize the use and emissions of MeCl. The MeCl minimization plan must address, at a minimum, the management practices specified in §63.11173(a)(1) through (5), as applicable, for your operations. Each operation must post a placard or sign outlining the MeCl minimization plan in each area where paint stripping operations subject to Subpart HHHHHH occur. Paint stripping operations with annual usage of less than one ton of MeCl, must comply with the requirements in §63.11173(a)(1) through (5), as applicable, but are not required to develop and implement a written MeCl minimization plan. [§63.11173(b)]
- 4) Each paint stripping operation must maintain copies of annual usage of paint strippers containing MeCl on site at all times. [§63.11173(c)]
- 5) Each paint stripping operation with annual usage of more than one ton of MeCl must maintain a copy of their current MeCl minimization plan on site at all times. [§63.11173(d)]

Recordkeeping:

- 1) The permittee must keep the records specified in §63.11177(e) through (g), as applicable. [§63.11177]
 - a) Records of paint strippers containing MeCl used for paint stripping operations, including the MeCl content of the paint stripper used. Documentation needs to be sufficient to verify annual usage of paint strippers containing MeCl (e.g., material safety data sheets or other documentation provided by the manufacturer or supplier of the paint stripper, purchase receipts, records of paint stripper usage, engineering calculations). [§63.11177(e)]
 - b) If you are a paint stripping source that annually uses more than one ton of MeCl you are required to maintain a record of the current MeCl minimization plan on site for the duration of the paint stripping operations. The permittee must also keep records of the annual review of, and updates to, the MeCl minimization plan. [§63.11177(f)]
 - c) Records of any deviation from the requirements in §§63.11173, 63.11174, 63.11175, or 63.11176. These records must include the date and time period of the deviation, and a description of the nature of the deviation and the actions taken to correct the deviation. [§63.11177(g)]
 - d) Records of any assessments of source compliance performed in support of the initial notification, notification of compliance status, or annual notification of changes report. [§63.11177(h)]

- 2) The permittee must maintain copies of the records specified in §63.11177 for a period of at least five years after the date of each record. Copies of records must be kept on site and in a printed or electronic form that is readily accessible for inspection for at least the first two years after their date, and may be kept off-site after that two year period. [§63.11178(a)]
- 3) These records shall be made available immediately for inspection to the Department of Natural Resources' personnel upon their verbal request and presentation of identification.

Reporting:

- 1) *Initial Notification.* The permittee must submit the initial notification required by §63.9(b). The permittee must submit the initial notification no later than January 11, 2010. The initial notification must provide the information specified below. [§63.11175(a)]
 - a) The company name, if applicable. [§63.11175(a)(1)]
 - b) The name, title, street address, telephone number, e-mail address (if available), and signature of the owner and operator, or other certifying company official; [§63.11175(a)(2)]
 - c) The street address (physical location) of the affected source and the street address where compliance records are maintained, if different; [§63.11175(a)(3)]
 - d) An identification of the relevant standard (i.e., this subpart, 40 CFR Part 63, Subpart HHHHHH); [§63.11175(a)(4)]
 - e) A brief description of the type of operation as specified in §63.11175(a)(5)(i) or (ii). [§63.11175(a)(5)]
 - i) For paint stripping operations, identify the method(s) of paint stripping employed (e.g., chemical, mechanical) and the substrates stripped (e.g., wood, plastic, metal).
 - f) Each paint stripping operation must indicate whether they plan to annually use more than one ton of MeCl after the compliance date. [§63.11175(a)(6)]
 - g) A statement of whether the source is already in compliance with each of the relevant requirements of Subpart HHHHHH, or whether the source will be brought into compliance by the compliance date. For paint stripping operations, the relevant requirements that the permittee must evaluate in making this determination are specified in §63.11173(a) through (d). [§63.11175(a)(7)]
 - h) The permittee may certify in the initial notification that the source is already in compliance. If the permittee is certifying in the initial notification that the source is in compliance with the relevant requirements of Subpart HHHHHH, then include also a statement by a responsible official with that official's name, title, phone number, e-mail address (if available) and signature, certifying the truth, accuracy, and completeness of the notification, a statement that the source has complied with all the relevant standards of this subpart, and that this initial notification also serves as the notification of compliance status. [§63.11175(a)(8)]
- 2) *Notification of Compliance Status.* If the permittee did not certify in the initial notification that the source is already in compliance as specified in §63.11175(a), then the permittee must submit a notification of compliance status. The permittee must submit a Notification of Compliance Status on or before March 11, 2011. The permittee is required to submit the information specified in §63.11175(b)(1) through (4) with your Notification of Compliance Status: [§63.11175(b)]
 - a) The company's name and the street address (physical location) of the affected source and the street address where compliance records are maintained, if different. [§63.11175(b)(1)]
 - b) The name, title, address, telephone, e-mail address (if available) and signature of the owner and operator, or other certifying company official, certifying the truth, accuracy, and completeness of the notification and a statement of whether the source has complied with all the relevant standards and other requirements of this subpart or an explanation of any noncompliance and a

description of corrective actions being taken to achieve compliance. For paint stripping operations, the relevant requirements that the permittee must evaluate in making this determination are specified in §63.11173(a) through (d). [§63.11175(b)(2)]

- c) The date of the Notification of Compliance Status. [§63.11175(b)(3)]
 - d) If you are the owner or operator of an existing affected paint stripping source that annually uses more than one ton of MeCl, you must submit a statement certifying that you have developed and are implementing a written MeCl minimization plan in accordance with §63.11173(b). [§63.11175(b)(4)]
- 3) *Annual Notification of Changes Report.* The permittee is required to submit a report in each calendar year in which information previously submitted in either the initial notification required by §63.11175(a), Notification of Compliance, or a previous annual notification of changes report submitted under this paragraph, has changed. Deviations from the relevant requirements in §63.11173(a) through (d) on the date of the report will be deemed to be a change. This includes notification when paint stripping affected sources that have not developed and implemented a written MeCl minimization plan in accordance with §63.11173(b) used more than one ton of MeCl in the previous calendar year. The annual notification of changes report must be submitted prior to March 1 of each calendar year when reportable changes have occurred and must include the information specified in §63.11176(a)(1) through (2). [§63.11176(a)]
- a) The company's name and the street address (physical location) of the affected source and the street address where compliance records are maintained, if different. [§63.11176(a)(1)]
 - b) The name, title, address, telephone, e-mail address (if available) and signature of the owner and operator, or other certifying company official, certifying the truth, accuracy, and completeness of the notification and a statement of whether the source has complied with all the relevant standards and other requirements of this subpart or an explanation of any noncompliance and a description of corrective actions being taken to achieve compliance. [§63.11176(a)(2)]
- 4) If you are the owner or operator of a paint stripping affected source that has not developed and implemented a written MeCl minimization plan in accordance with §63.11173(b) of Subpart HHHHHH, you must submit a report for any calendar year in which you use more than one ton of MeCl. This report must be submitted no later than March 1 of the following calendar year. You must also develop and implement a written MeCl minimization plan in accordance with §63.11173(b) no later than December 31. You must then submit a Notification of Compliance Status report containing the information specified in §63.11175(b) by March 1 of the following year and comply with the requirements for paint stripping operations that annually use more than one ton of MeCl in §§63.11173(d) and 63.11177(f). [§63.11176(b)]

IV. Core Permit Requirements

The installation shall comply with each of the following requirements. Consult the appropriate sections in the Code of Federal Regulations (CFR), Code of State Regulations (CSR), and local ordinances for the full text of the applicable requirements. All citations, unless otherwise noted, are to the regulations in effect on the date of permit issuance.

10 CSR 10-6.050 Start-up, Shutdown and Malfunction Conditions

- 1) In the event of a malfunction, which results in excess emissions that exceed one hour, the permittee shall submit to the Director within two business days, in writing, the following information:
 - a) Name and location of installation;
 - b) Name and telephone number of person responsible for the installation;
 - c) Name of the person who first discovered the malfunction and precise time and date that the malfunction was discovered.
 - d) Identity of the equipment causing the excess emissions;
 - e) Time and duration of the period of excess emissions;
 - f) Cause of the excess emissions;
 - g) Air pollutants involved;
 - h) Best estimate of the magnitude of the excess emissions expressed in the units of the applicable requirement and the operating data and calculations used in estimating the magnitude;
 - i) Measures taken to mitigate the extent and duration of the excess emissions; and
 - j) Measures taken to remedy the situation that caused the excess emissions and the measures taken or planned to prevent the recurrence of these situations.
- 2) The permittee shall submit the paragraph 1 information list to the Director in writing at least ten days prior to any maintenance, start-up or shutdown, which is expected to cause an excessive release of emissions that exceed one hour. If notice of the event cannot be given ten days prior to the planned occurrence, it shall be given as soon as practicable prior to the release. If an unplanned excess release of emissions exceeding one hour occurs during maintenance, start-up or shutdown, the Director shall be notified verbally as soon as practical during normal working hours and no later than the close of business of the following working day. A written notice shall follow within ten working days.
- 3) Upon receipt of a notice of excess emissions issued by an agency holding a certificate of authority under Section 643.140, RSMo, the permittee may provide information showing that the excess emissions were the consequence of a malfunction, start-up or shutdown. The information, at a minimum, should be the paragraph 1 list and shall be submitted not later than 15 days after receipt of the notice of excess emissions. Based upon information submitted by the permittee or any other pertinent information available, the Director or the commission shall make a determination whether the excess emissions constitute a malfunction, start-up or shutdown and whether the nature, extent and duration of the excess emissions warrant enforcement action under Section 643.080 or 643.151, RSMo.
- 4) Nothing in this rule shall be construed to limit the authority of the Director or commission to take appropriate action, under Sections 643.080, 643.090 and 643.151, RSMo to enforce the provisions of the Air Conservation Law and the corresponding rule.
- 5) Compliance with this rule does not automatically absolve the permittee of liability for the excess emissions reported.

10 CSR 10-6.060 Construction Permits Required

The permittee shall not commence construction, modification, or major modification of any installation subject to this rule, begin operation after that construction, modification, or major modification, or begin operation of any installation which has been shut down longer than five years without first obtaining a permit from the permitting authority.

10 CSR 10-6.065 Operating Permits

The permittee shall file a complete application for renewal of this operating permit at least six months before the date of permit expiration. In no event shall this time be greater than eighteen months. [10 CSR 10-6.065(5)(B)1.A(III)] The permittee shall retain the most current operating permit issued to this installation on-site. [10 CSR 10-6.065, §(5)(C)(1) and §(6)(C)1.C(II)] The permittee shall immediately make such permit available to any Missouri Department of Natural Resources personnel upon request. [10 CSR 10-6.065, §(5)(C)(1) and §(6)(C)3.B]

10 CSR 10-6.110 Submission of Emission Data, Emission Fees and Process Information

- 1) The permittee shall complete and submit an Emission Inventory Questionnaire (EIQ) in accordance with the requirements outlined in this rule.
- 2) The permittee shall pay an annual emission fee per ton of regulated air pollutant emitted according to the schedule in the rule. This fee is an emission fee assessed under authority of RSMo. 643.079.
- 3) The fees shall be payable to the Department of Natural Resources and shall be accompanied by the Emissions Inventory Questionnaire (EIQ) form or equivalent approved by the Director.

10 CSR 10-6.130 Controlling Emissions During Episodes of High Air Pollution Potential

This rule specifies the conditions that establish an air pollution alert (yellow/orange/red/purple), or emergency (maroon) and the associated procedures and emission reduction objectives for dealing with each. The permittee shall submit an appropriate emergency plan if required by the Director.

10 CSR 10-6.150 Circumvention

The permittee shall not cause or permit the installation or use of any device or any other means which, without resulting in reduction in the total amount of air contaminant emitted, conceals or dilutes an emission or air contaminant which violates a rule of the Missouri Air Conservation Commission.

10 CSR 10-6.170 Restriction of Particulate Matter to the Ambient Air Beyond the Premises of Origin

- 1) The permittee shall not cause or allow to occur any handling, transporting or storing of any material; construction, repair, cleaning or demolition of a building or its appurtenances; construction or use of a road, driveway or open area; or operation of a commercial or industrial installation without applying reasonable measures as may be required to prevent, or in a manner which allows or may allow, fugitive particulate matter emissions to go beyond the premises of origin in quantities that the particulate matter may be found on surfaces beyond the property line of origin. The nature or origin of the particulate matter shall be determined to a reasonable degree of certainty by a technique proven to be accurate and approved by the Director.
- 2) The permittee shall not cause nor allow to occur any fugitive particulate matter emissions to remain visible in the ambient air beyond the property line of origin.
- 3) Should it be determined that noncompliance has occurred, the Director may require reasonable control measures as may be necessary. These measures may include, but are not limited to, the following:

- a) Revision of procedures involving construction, repair, cleaning and demolition of buildings and their appurtenances that produce particulate matter emissions;
- b) Paving or frequent cleaning of roads, driveways and parking lots;
- c) Application of dust-free surfaces;
- d) Application of water; and
- e) Planting and maintenance of vegetative ground cover.

10 CSR 10-6.180 Measurement of Emissions of Air Contaminants

- 1) The Director may require any person responsible for the source of emission of air contaminants to make or have made tests to determine the quantity or nature, or both, of emission of air contaminants from the source. The Director may specify testing methods to be used in accordance with good professional practice. The Director may observe the testing. All tests shall be performed by qualified personnel.
- 2) The Director may conduct tests of emissions of air contaminants from any source. Upon request of the Director, the person responsible for the source to be tested shall provide necessary ports in stacks or ducts and other safe and proper sampling and testing facilities, exclusive of instruments and sensing devices as may be necessary for proper determination of the emission of air contaminants.
- 3) The Director shall be given a copy of the test results in writing and signed by the person responsible for the tests.

10 CSR 10-6.045 Open Burning Requirements

- (1) General Provisions. The open burning of tires, petroleum-based products, asbestos containing materials, and trade waste is prohibited, except as allowed below. Nothing in this rule may be construed as to allow open burning which causes or constitutes a public health hazard, nuisance, a hazard to vehicular or air traffic, nor which violates any other rule or statute.
- (2) Refer to the regulation for a complete list of allowances. The following is a listing of exceptions to the allowances:
 - (A) Burning of household or domestic refuse. Burning of household or domestic refuse is limited to open burning on a residential premises having not more than four dwelling units, provided that the refuse originates on the same premises, with the following exceptions:
 1. Kansas City metropolitan area. The open burning of household refuse must take place in an area zoned for agricultural purposes and outside that portion of the metropolitan area surrounded by the corporate limits of Kansas City and every contiguous municipality;
 2. Springfield-Greene County area. The open burning of household refuse must take place outside the corporate limits of Springfield and only within areas zoned A-1, Agricultural District;
 3. St. Joseph area. The open burning of household refuse must take place within an area zoned for agricultural purposes and outside that portion of the metropolitan area surrounded by the corporate limits of St. Joseph; and
 4. St. Louis metropolitan area. The open burning of household refuse is prohibited;
 - (B) Yard waste, with the following exceptions:
 1. Kansas City metropolitan area. The open burning of trees, tree leaves, brush or any other type of vegetation shall require an open burning permit;
 2. Springfield-Greene County area. The City of Springfield requires an open burning permit for the open burning of trees, brush or any other type of vegetation. The City of Springfield prohibits the open burning of tree leaves;

3. St. Joseph area. Within the corporate limits of St. Joseph, the open burning of trees, tree leaves, brush or any other type of vegetation grown on a residential property is allowed during the following calendar periods and time-of-day restrictions:
 - A. A three (3)-week period within the period commencing the first day of March through April 30 and continuing for twenty-one (21) consecutive calendar days;
 - B. A three (3)-week period within the period commencing the first day of October through November 30 and continuing for twenty-one (21) consecutive calendar days;
 - C. The burning shall take place only between the daytime hours of 10:00 a.m. and 3:30 p.m.; and
 - D. In each instance, the twenty-one (21)-day burning period shall be determined by the Director of Public Health and Welfare of the City of St. Joseph for the region in which the City of St. Joseph is located provided, however, the burning period first shall receive the approval of the Department Director; and
 4. St. Louis metropolitan area. The open burning of trees, tree leaves, brush or any other type of vegetation is limited to the period beginning September 16 and ending April 14 of each calendar year and limited to a total base area not to exceed sixteen (16) square feet. Any open burning shall be conducted only between the hours of 10:00 a.m. and 4:00 p.m. and is limited to areas outside of incorporated municipalities;
- (3) Certain types of materials may be open burned provided an open burning permit is obtained from the Director. The permit will specify the conditions and provisions of all open burning. The permit may be revoked if the owner or operator fails to comply with the conditions or any provisions of the permit.
 - (4) Premier Turbines may be issued an annually renewable open burning permit for open burning provided that an air curtain destructor or incinerator is utilized and only tree trunks, tree limbs, vegetation or untreated wood waste are burned. Open burning shall occur at least two hundred (200) yards from the nearest occupied structure unless the owner or operator of the occupied structure provides a written waiver of this requirement. Any waiver shall accompany the open burning permit application. The permit may be revoked if Premier Turbines fails to comply with the provisions or any condition of the open burning permit.
 - (A) In a nonattainment area, as defined in 10 CSR 10-6.020, paragraph (2)(N)5., the Director shall not issue a permit under this section unless the owner or operator can demonstrate to the satisfaction of the Director that the emissions from the open burning of the specified material would be less than the emissions from any other waste management or disposal method.
 - (5) Reporting and Recordkeeping. New Source Performance Standard (NSPS) 40 CFR Part 60 Subpart CCCC establishes certain requirements for air curtain destructors or incinerators that burn wood trade waste. These requirements are established in 40 CFR 60.2245-60.2260. The provisions of 40 CFR Part 60 Subpart CCCC promulgated as of September 22, 2005 shall apply and are hereby incorporated by reference in this rule, as published by the U.S. Government Printing Office, 732 N Capitol Street NW, Washington, DC 20401. To comply with NSPS 40 CFR 60.2245-60.2260, sources must conduct an annual Method 9 test. A copy of the annual Method 9 test results shall be submitted to the Director.
 - (6) Test Methods. The visible emissions from air pollution sources shall be evaluated as specified by 40 CFR Part 60, Appendix A–Test Methods, Method 9–Visual Determination of the Opacity of Emissions from Stationary Sources. The provisions of 40 CFR Part 60, Appendix A, Method 9 promulgated as of December 23, 1971 is incorporated by reference in this rule, as published by the U.S. Government Printing Office, 732 N Capitol Street NW, Washington, DC 20401.

10 CSR 10-3.090 Restriction of Emission of Odors

This requirement is not federally enforceable.

No person may cause, permit or allow the emission of odorous matter in concentrations and frequencies or for durations that odor can be perceived when one volume of odorous air is diluted with seven volumes of odor-free air for two separate trials not less than 15 minutes apart within the period of one hour.

Title VI – 40 CFR Part 82 Protection of Stratospheric Ozone

- 1) The permittee shall comply with the standards for labeling of products using ozone-depleting substances pursuant to 40 CFR Part 82, Subpart E:
 - a) All containers in which a class I or class II substance is stored or transported, all products containing a class I substance, and all products directly manufactured with a class I substance must bear the required warning statement if it is being introduced into interstate commerce pursuant to §82.106.
 - b) The placement of the required warning statement must comply with the requirements pursuant to §82.108.
 - c) The form of the label bearing the required warning statement must comply with the requirements pursuant to §82.110.
 - d) No person may modify, remove, or interfere with the required warning statement except as described in §82.112.
- 2) The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for motor vehicle air conditioners (MVACs) in Subpart B:
 - a) Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to §82.156.
 - b) Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to §82.158.
 - c) Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to §82.161.
 - d) Persons disposing of small appliances, MVACs, and MVAC-like appliances must comply with recordkeeping requirements pursuant to §82.166. ("MVAC-like" appliance as defined at §82.152).
 - e) Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to §82.156.
 - f) Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to §82.166.
- 3) If the permittee manufactures, transforms, imports, or exports a class I or class II substance, the permittee is subject to all the requirements as specified in 40 CFR Part 82, Subpart A, Production and Consumption Controls.
- 4) If the permittee performs a service on motor (fleet) vehicles when this service involves ozone-depleting substance refrigerant (or regulated substitute substance) in the motor vehicle air conditioner (MVAC), the permittee is subject to all the applicable requirements as specified in 40 CFR Part 82, Subpart B, Servicing of Motor Vehicle Air conditioners. The term "motor vehicle" as used in Subpart B does not include a vehicle in which final assembly of the vehicle has not been completed. The term "MVAC" as used in Subpart B does not include the air-tight sealed refrigeration system used as refrigerated cargo, or system used on passenger buses using HCFC-22 refrigerant.

The permittee shall be allowed to switch from any ozone-depleting substance to any alternative that is listed in the Significant New Alternatives Program (SNAP) promulgated pursuant to 40 CFR Part 82, Subpart G, Significant New Alternatives Policy Program. *Federal Only - 40 CFR Part 82*

10 CSR 10-6.280 Compliance Monitoring Usage

- 1) The permittee is not prohibited from using the following in addition to any specified compliance methods for the purpose of submission of compliance certificates:
 - a) Monitoring methods outlined in 40 CFR Part 64;
 - b) Monitoring method(s) approved for the permittee pursuant to 10 CSR 10-6.065, "Operating Permits", and incorporated into an operating permit; and
 - c) Any other monitoring methods approved by the Director.
- 2) Any credible evidence may be used for the purpose of establishing whether a permittee has violated or is in violation of any such plan or other applicable requirement. Information from the use of the following methods is presumptively credible evidence of whether a violation has occurred by a permittee:
 - a) Monitoring methods outlined in 40 CFR Part 64;
 - b) A monitoring method approved for the permittee pursuant to 10 CSR 10-6.065, "Operating Permits", and incorporated into an operating permit; and
 - c) Compliance test methods specified in the rule cited as the authority for the emission limitations.
- 3) The following testing, monitoring or information gathering methods are presumptively credible testing, monitoring, or information gathering methods:
 - a) Applicable monitoring or testing methods, cited in:
 - i) 10 CSR 10-6.030, "Sampling Methods for Air Pollution Sources";
 - ii) 10 CSR 10-6.040, "Reference Methods";
 - iii) 10 CSR 10-6.070, "New Source Performance Standards";
 - iv) 10 CSR 10-6.080, "Emission Standards for Hazardous Air Pollutants"; or
 - b) Other testing, monitoring, or information gathering methods, if approved by the Director, that produce information comparable to that produced by any method listed above.

V. General Permit Requirements

The installation shall comply with each of the following requirements. Consult the appropriate sections in the Code of Federal Regulations (CFR) and Code of State Regulations (CSR) for the full text of the applicable requirements. All citations, unless otherwise noted, are to the regulations in effect as of the date that this permit is issued.

10 CSR 10-6.065, §(5)(C)1 and §(6)(C)1.B Permit Duration

This permit is issued for a term of five years, commencing on the date of issuance. This permit will expire at the end of this period unless renewed.

10 CSR 10-6.065, §(5)(C)1 and §(6)(C)1.C General Record Keeping and Reporting Requirements

- 1) Record Keeping
 - a) All required monitoring data and support information shall be retained for a period of at least five years from the date of the monitoring sample, measurement, report or application.
 - b) Copies of all current operating and construction permits issued to this installation shall be kept on-site for as long as the permits are in effect. Copies of these permits shall be made immediately available to any Missouri Department of Natural Resources' personnel upon request.
- 2) Reporting
 - a) All reports shall be submitted to the Air Pollution Control Program's Enforcement Section, P. O. Box 176, Jefferson City, MO 65102.
 - b) The permittee shall submit a report of all required monitoring by:
 - i) April 1st for monitoring which covers the January through December time period.
 - ii) Exception. Monitoring requirements which require reporting more frequently than annually shall report no later than 30 days after the end of the calendar quarter in which the measurements were taken.
 - c) Each report shall identify any deviations from emission limitations, monitoring, record keeping, reporting, or any other requirements of the permit.
 - d) Submit supplemental reports as required or as needed. Supplemental reports are required no later than ten days after any exceedance of any applicable rule, regulation or other restriction. All reports of deviations shall identify the cause or probable cause of the deviations and any corrective actions or preventative measures taken.
 - i) Notice of any deviation resulting from an emergency (or upset) condition as defined in paragraph (6)(C)7 of 10 CSR 10-6.065 (Emergency Provisions) shall be submitted to the permitting authority either verbally or in writing within two working days after the date on which the emission limitation is exceeded due to the emergency, if the permittee wishes to assert an affirmative defense. The affirmative defense of emergency shall be demonstrated through properly signed, contemporaneous operating logs, or other relevant evidence that indicate an emergency occurred and the permittee can identify the cause(s) of the emergency. The permitted installation must show that it was operated properly at the time and that during the period of the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or requirements in the permit. The notice must contain a description of the emergency, the steps taken to mitigate emissions, and the corrective actions taken.

- ii) Any deviation that poses an imminent and substantial danger to public health, safety or the environment shall be reported as soon as practicable.
- iii) Any other deviations identified in the permit as requiring more frequent reporting than the permittee's annual report shall be reported on the schedule specified in this permit, and no later than ten days after any exceedance of any applicable rule, regulation, or other restriction.
- e) Every report submitted shall be certified by the responsible official, except that, if a report of a deviation must be submitted within ten days after the deviation, the report may be submitted without a certification if the report is resubmitted with an appropriate certification within ten days after that, together with any corrected or supplemental information required concerning the deviation.
- f) The permittee may request confidential treatment of information submitted in any report of deviation.

10 CSR 10-6.065 §(5)(C)1 and §(6)(C)1.D Risk Management Plan Under Section 112(r)

The permittee shall comply with the requirements of 40 CFR Part 68, Accidental Release Prevention Requirements. If the permittee has more than a threshold quantity of a regulated substance in process, as determined by 40 CFR Section 68.115, the permittee shall submit a Risk Management Plan in accordance with 40 CFR Part 68 no later than the latest of the following dates:

- 1) June 21, 1999;
- 2) Three years after the date on which a regulated substance is first listed under 40 CFR Section 68.130; or
- 3) The date on which a regulated substance is first present above a threshold quantity in a process.

10 CSR 10-6.065(5)(C)1.A General Requirements

- 1) The permittee must comply with all of the terms and conditions of this permit. Any noncompliance with a permit condition constitutes a violation and is grounds for enforcement action, permit termination, permit revocation and re-issuance, permit modification or denial of a permit renewal application.
- 2) The permittee may not use as a defense in an enforcement action that it would have been necessary for the permittee to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit
- 3) The permit may be modified, revoked, reopened, reissued or terminated for cause. Except as provided for minor permit modifications, the filing of an application or request for a permit modification, revocation and reissuance, or termination, or the filing of a notification of planned changes or anticipated noncompliance, does not stay any permit condition.
- 4) This permit does not convey any property rights of any sort, nor grant any exclusive privilege.
- 5) The permittee shall furnish to the Air Pollution Control Program, upon receipt of a written request and within a reasonable time, any information that the Air Pollution Control Program reasonably may require to determine whether cause exists for modifying, reopening, reissuing or revoking the permit or to determine compliance with the permit. Upon request, the permittee also shall furnish to the Air Pollution Control Program copies of records required to be kept by the permittee. The permittee may make a claim of confidentiality for any information or records submitted under this rule.
- 6) Failure to comply with the limitations and conditions that qualify the installation for an Intermediate permit make the installation subject to the provisions of 10 CSR 10-6.065(6) and enforcement action for operating without a valid part 70 operating permit.

10 CSR 10-6.065(5)(C)1.C Reasonably Anticipated Operating Scenarios

None

10 CSR 10-6.065, §(5)(B)4; §(5)(C)1, §(6)(C)3.B; and §(6)(C)3.D; and §(5)(C)3 and §(6)(C)3.E.(I) – (III) and (V) – (VI) Compliance Requirements

- 1) Any document (including reports) required to be submitted under this permit shall contain a certification signed by the responsible official.
- 2) Upon presentation of credentials and other documents as may be required by law, the permittee shall allow authorized officials of the Missouri Department of Natural Resources, or their authorized agents, to perform the following (subject to the installation's right to seek confidential treatment of information submitted to, or obtained by, the Air Pollution Control Program):
 - a) Enter upon the premises where a permitted installation is located or an emissions-related activity is conducted, or where records must be kept under the conditions of this permit;
 - b) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
 - c) Inspect, at reasonable times and using reasonable safety practices, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit; and
 - d) As authorized by the Missouri Air Conservation Law, Chapter 643, RSMo or the Act, sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with the terms of this permit, and all applicable requirements as outlined in this permit.
- 3) All progress reports required under an applicable schedule of compliance shall be submitted semiannually (or more frequently if specified in the applicable requirement). These progress reports shall contain the following:
 - a) Dates for achieving the activities, milestones or compliance required in the schedule of compliance, and dates when these activities, milestones or compliance were achieved, and
 - b) An explanation of why any dates in the schedule of compliance were not or will not be met, and any preventative or corrective measures adopted.
- 4) The permittee shall submit an annual certification that it is in compliance with all of the federally enforceable terms and conditions contained in this permit, including emissions limitations, standards, or work practices. These certifications shall be submitted annually by June 1st, unless the applicable requirement specifies more frequent submission. These certifications shall be submitted to the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65102. All deviations and exceedances must be included in the compliance certifications. The compliance certification shall include the following:
 - a) The identification of each term or condition of the permit that is the basis of the certification;
 - b) The current compliance status, as shown by monitoring data and other information reasonably available to the installation;
 - c) Whether compliance was continuous or intermittent;
 - d) The method(s) used for determining the compliance status of the installation, both currently and over the reporting period; and
 - e) Such other facts as the Air Pollution Control Program will require in order to determine the compliance status of this installation.

10 CSR 10-6.065, §(5)(C)1 and §(6)(C)7 Emergency Provisions

- 1) An emergency or upset as defined in 10 CSR 10-6.065(6)(C)7.A shall constitute an affirmative defense to an enforcement action brought for noncompliance with technology-based emissions limitations. To establish an emergency- or upset-based defense, the permittee must demonstrate, through properly signed, contemporaneous operating logs or other relevant evidence, the following:
 - a) That an emergency or upset occurred and that the permittee can identify the source of the emergency or upset,
 - b) That the installation was being operated properly,
 - c) That the permittee took all reasonable steps to minimize emissions that exceeded technology-based emissions limitations or requirements in this permit, and
 - d) That the permittee submitted notice of the emergency to the Air Pollution Control Program within two working days of the time when emission limitations were exceeded due to the emergency. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and any corrective actions taken.
- 2) Be aware that an emergency or upset shall not include noncompliance caused by improperly designed equipment, lack of preventative maintenance, careless or improper operation, or operator error.

10 CSR 10-6.065(5)(C)5 Off-Permit Changes

- 1) Except as noted below, the permittee may make any change in its permitted installation's operations, activities or emissions that is not addressed in, constrained by or prohibited by this permit without obtaining a permit revision. Off-permit changes shall be subject to the following requirements and restrictions:
 - a) The change must meet all applicable requirements of the Act and may not violate any existing permit term or condition; the permittee may not change a permitted installation without a permit revision if this change is a Title I modification; Please Note: Changes at the installation which affect the emission limitation(s) classifying the installation as an intermediate source (add additional equipment to the record keeping requirements, increase the emissions above major source level) do not qualify for off-permit changes.
 - b) The permittee must provide written notice of the change to the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, as well as EPA Region VII, 901 North 5th Street, Kansas City, KS 66101, no later than the next annual emissions report. This written notice shall describe each change, including the date, any change in emissions, pollutants emitted and any applicable requirement that would apply as a result of the change; and
 - c) The permittee shall keep a record describing all changes made at the installation that result in emissions of a regulated air pollutant subject to an applicable requirement and the emissions resulting from these changes.

10 CSR 10-6.020(2)(R)12 Responsible Official

The application utilized in the preparation of this permit was signed by Mark Knight, Interim Vice President & General Manager. If this person terminates employment, or is reassigned different duties such that a different person becomes the responsible person to represent and bind the installation in environmental permitting affairs, the owner or operator of this air contaminant source shall notify the Director of the Air Pollution Control Program of the change. Said notification shall be in writing and shall be submitted within 30 days of the change. The notification shall include the name and title of the new person assigned by the source owner or operator to represent and bind the installation in environmental permitting affairs. All representations, agreement to terms and conditions and covenants

made by the former responsible person that were used in the establishment of limiting permit conditions on this permit will continue to be binding on the installation until such time that a revision to this permit is obtained that would change said representations, agreements and covenants.

10 CSR 10-6.065 §(5)(E)4 and §(6)(E)6.A(III)(a)-(c) Reopening-Permit for Cause

This permit may be reopened for cause if:

- 1) The Missouri Department of Natural Resources (MDNR) or EPA determines that the permit contains a material mistake or that inaccurate statements were made which resulted in establishing the emissions limitation standards or other terms of the permit,
- 2) Additional applicable requirements under the Act become applicable to the installation; however, reopening on this ground is not required if—:
 - a) The permit has a remaining term of less than three years;
 - b) The effective date of the requirement is later than the date on which the permit is due to expire;
or
 - c) The additional applicable requirements are implemented in a general permit that is applicable to the installation and the installation receives authorization for coverage under that general permit,
- 3) The Missouri Department of Natural Resources or EPA determines that the permit must be reopened and revised to assure compliance with applicable requirements.

10 CSR 10-6.065 §(5)(E)1.A and §(6)(E)1.C Statement of Basis

This permit is accompanied by a statement setting forth the legal and factual basis for the permit conditions (including references to applicable statutory or regulatory provisions). This Statement of Basis, while referenced by the permit, is not an actual part of the permit.

VI. Attachments

Attachments follow.

Attachment D
Jet Fuel HAP Speciation

HAP	CAS No.	Weight Percent (%)
Formaldehyde	50-00-0	15.48
Benzene	71-43-2	2.02
Acetaldehyde	75-07-0	4.83
Naphthalene	91-20-3	0.60
o-Xylene	95-47-6	0.20
Ethylbenzene	100-41-4	0.18
Styrene	100-42-5	0.41
1,3-Butadiene	106-99-0	1.89
Acrolein	107-02-8	2.38
Toluene	108-88-3	0.55
Phenol	108-95-2	0.26
Xylene (mixed isomers)	1330-20-7	0.50
Total Weight Percent HAP		29.3

Attachment E

Installation-Wide Total PM₁₀ Emissions

This recordkeeping sheet or an equivalent form created by the permittee and approved by the Air Pollution Control Program Director may be used in order to demonstrate that emissions from the entire installation will not exceed 100 tons PM₁₀ in any consecutive 12-month period.

Emission Unit	Month												12 Month Rolling Total (tons/yr)
	1 (tons)	2 (tons)	3 (tons)	4 (tons)	5 (tons)	6 (tons)	7 (tons)	8 (tons)	9 (tons)	10 (tons)	11 (tons)	12 (tons)	
¹ EU0080 - Test Cell 6													
¹ EU0090 - Test Cell 5													
¹ EU0140 - Manual Thermal Spray Station 1													
¹ EU0150 - Manual Thermal Spray Station 2													
¹ EU0160 - Robotic Flame Spray Station													
EU0010 through EU0030 - Finishing Area Abrasive Blasting													
EU0040 - Wheelabrator Unit													
EU0050 - Devilbiss Paint Booth													
EU0060 - Sermetel Paint Booth													
EU0070 - Hard Chrome Electroplating													
EU0100 - Test Cell 2													
EU0110 - Test Cell 1													
EU0120 - Erie City Boiler 1													
EU0130 - Erie City Boiler 2													
Superior Boiler													
Production Welding													
Cooling Towers													
Totals													

Notes:

- 1) Insert PM₁₀ emissions from these emission units as calculated in Attachment L.
- 2) Any additional PM₁₀ emitting source not listed above must be added to the table and included in the installation-wide totals.
- 3) **An installation-wide emission of less than 100 tons PM₁₀ in any consecutive 12-month period demonstrates compliance.**

Attachment G

Installation-Wide Total NO_x Emissions

This recordkeeping sheet or an equivalent form created by the permittee and approved by the Air Pollution Control Program Director may be used in order to demonstrate that emissions from the entire installation will not exceed 100 tons NO_x in any consecutive 12-month period.

Emission Unit	Month												12 Month Rolling Total (tons/yr)
	1 (tons)	2 (tons)	3 (tons)	4 (tons)	5 (tons)	6 (tons)	7 (tons)	8 (tons)	9 (tons)	10 (tons)	11 (tons)	12 (tons)	
¹ EU0080 - Test Cell 6													
¹ EU0090 - Test Cell 5													
EU0100 - Test Cell 2													
EU0110 - Test Cell 1													
EU0120 - Erie City Boiler 1													
EU0130 - Erie City Boiler 2													
Superior Boiler													
Totals													

Notes:

- 1) Insert NO_x emissions from EU0080 and EU0090 as calculated in Attachment N.
- 2) Any additional NO_x emitting source not listed above must be added to the table and included in the installation-wide totals
- 3) **An installation-wide emission of less than 100 tons NO_x in any consecutive 12-month period demonstrates compliance.**

Attachment I-2
 Method 22 (Outdoor) Observation Log

This recordkeeping sheet or an equivalent form may be used for the recordkeeping requirements of 10 CSR 10-6.220, *Restriction of Emission of Visible Air Contaminants*.

Method 22 (Outdoor) Observation Log		
Emission Unit		
Observer	Date	
Sky Conditions		
Precipitation		
Wind Direction	Wind Speed	
Sketch process unit: Indicate the position relative to the source and sun; mark the potential emission points and/or the observing emission points.		
Observation Clock Time	Observation Period Duration (minute: second)	Accumulative Emission Time (minute: second)
Begin Observation		
End Observation		

Attachment K
 Method 9 Opacity Emissions Observations

This recordkeeping sheet or an equivalent form may be used for the recordkeeping requirements of 10 CSR 10-6.220, *Restriction of Emission of Visible Air Contaminants*.

Method 9 Opacity Emissions Observations								
Company					Observer			
Location					Observer Certification Date			
Date					Emission Unit			
Time					Control Device			
Hour	Minute	Seconds				Steam Plume (check if applicable)		Comments
		0	15	30	45	Attached	Detached	
	0							
	1							
	2							
	3							
	4							
	5							
	6							
	7							
	8							
	9							
	10							
	11							
	12							
	13							
	14							
	15							
	16							
	17							
	18							
SUMMARY OF AVERAGE OPACITY								
Set Number	Time				Opacity			
	Start	End	Sum	Average				

Readings ranged from _____ to _____ % opacity.

Was the emission unit in compliance at the time of evaluation? _____
YES NO Signature of Observer

Attachment P

10 CSR 10-6.260 Compliance Demonstration for EU0080 through EU0110

SO₂ emissions from Internal Combustion Engines > 600 HP

This rule is applicable to EU0080 through EU0110, Test Cells 6, 5, 2 and 1. These emission units are in compliance with 10 CSR 10-6.260 when using a jet fuel with a sulfur content of less than 0.29% by weight as summarized below.

General Equation: $\text{ppmv SO}_2 = \text{SO}_2 \text{ Emission Factor (lb/MMBtu)} \div \text{F factor (wscf/MMBtu)} \div \text{Conversion Factor (lb/scf)} \times \text{Conversion Factor (ppmv/ppmw)}$

Where:

- 1) SO₂ emission factor = 1.01S(% Sulfur in fuel)lb/MMBtu (US EPA document AP-42 Table 3.4-1)

This emission factor assumes that all of the sulfur in the fuel is converted to SO₂ emissions.

- 2) The F factor is the ratio of gas volume of products of combustion to the heat content of the fuel. For fuel oil the F factor is 10,320 wscf/MMBtu. (40 CFR Part 60 Appendix A Method 19 Table 19-2).
- 3) The conversion factor is 1.660E-7 lb/scf per ppm (40 CFR Part 60 Appendix A Method 19, Table 19-1).
- 4) Conversion factor for ppm weight to ppmv = 28.8/MW = 28.8/64 = 0.45 (US EPA document AP-42 Appendix A)

$$\text{ppmv SO}_2 = \left(1.01 \times 0.29 \frac{\text{lb}}{\text{MMBtu}} \right) \left(\frac{\text{MMBtu}}{10,320 \text{ ft}^3} \right) \left(\frac{\text{scf}}{1.66 \text{ E}^{-7} \text{ lb}} \right) \left(0.45 \frac{\text{ppmv}}{\text{ppmw}} \right) = 77 \text{ ppmv}$$

77 ppm weight to ppmv < 500 ppmv, therefore, in compliance

Attachment Q

10 CSR 10-3.060 Compliance Demonstration for EU0120 and EU0130

This attachment may be used to demonstrate Erie City Boilers 1 and 2 (EU0120 and EU0130) are in compliance with 10 CSR 10-3.060 as long as the emission units are limited to burning natural gas or distillate oil.

The PM emission limit is based on whether the emission unit is new or existing. In the outstate Missouri area, existing is defined as being installed or under construction on February 24, 1971. Erie City Boilers 1 and 2 (EU0120 and EU0130) were installed in 1956, so they are existing units.

The PM emission limit is based on the total heat input rate (MMBtu/hr) of all indirect heating units at the installation (Q). The indirect heating sources at the facility and their respective heat input are as follows:

EU ID #	EU Description	Heat Input (MMBtu/hr)
EU0120	Erie City Boiler 1	20
EU0130	Erie City Boiler 2	20
NA	Superior Boiler	2.4
Installation's Total Heat Input (Q)		42.4

Allowable Emission Rate (E) for Existing Sources

$$E = 0.90Q^{-0.174}$$

$$E = 0.90(42.4)^{-0.174}$$

$$E = 0.47 \text{ lb/MMBtu}$$

Potential Emission Rate (PTE)

Natural Gas

PM emission factor for natural gas = 7.6 lb/10⁶ scf [US EPA document AP-42 Table 1.4-2]
 Heating value of natural gas = 1020 MMBtu/10⁶ scf [US EPA document AP-42 Chapter 1.4]
 Potential PM Emissions for natural gas = (7.6 lb/10⁶ scf)/(1020 MMBtu/10⁶ scf) = 0.0075 lb/MMBtu

Since the uncontrolled potential to emit rate of 0.0075 lb/MMBtu is well below the allowable emission rate of 0.47 lb/MMBtu, the unit is in compliance.

Distillate Fuel Oil

PM emission factor for fuel oil = 3.3 lb/10³ gal [US EPA document AP-42 Table 1.3-1]
 Heating value of fuel oil No. 2 = 140 MMBtu/10³ gal [US EPA document AP-42 Chapter 1.3]
 Potential Emission for fuel oil No. 2 = (3.3 lb/10³ gal)/(140 MMBtu/10³ gal) = 0.02 lb/MMBtu

Since the uncontrolled potential to emit rate of 0.02 lb/MMBtu is well below the allowable emission rate of 0.47 lb/MMBtu, the unit is in compliance.

Attachment S

Annual Chromium Usage Tracking Record for EU0140 through EU0160

Premier Turbines

Newton County, S11, T24N, R32W

Project Number: 2004-10-019

Installation ID Number: 145-0044

Permit Number OP2010-015

This sheet covers the period from _____ to _____.
(month, year) (month, year)

Copy this sheet as needed.

(a) Daily Chromium Usage from Attachment R, in pounds	
(b) Annual Chromium Usage Total (d) from Previous Day's Attachment S, in pounds	
(c) Daily Chromium Usage (c) from Previous Day's Attachment R, in pounds	
(d) Current Annual Total Chromium Usage, in pounds: [(a) + (b) - (c)] x [0.0005]:	

- (a) Record the amount of chromium daily usage already calculated for Attachment R, (c) in pounds;
- (b) Record the previous day's Annual Chromium Usage (d) from Attachment S, in pounds;
- (c) Record the previous day's Daily Chromium Usage (c) form Attachment R, in pounds;
- (d) Calculate the new Annual Chromium Usage total.

An annual Chromium Usage total of less than 1.46 tons indicates compliance.

STATEMENT OF BASIS

Voluntary Limitations

In order to qualify for this Intermediate State Operating Permit, the permittee has accepted voluntary, federally enforceable emission limitations. Per 10 CSR 10-6.065(5)(C)1.A.(VI), if these limitations are exceeded, the installation immediately becomes subject to 10 CSR 10-6.065(6) and enforcement action for operating without a valid part 70 operating permit. It is the permittee's responsibility to monitor emission levels and apply for a part 70 operating permit far enough in advance to avoid this situation. This may mean applying more than eighteen months in advance of the exceedance, since it can take that long or longer to obtain a part 70 operating permit.

Permit Reference Documents

These documents were relied upon in the preparation of the operating permit. Because they are not incorporated by reference, they are not an official part of the operating permit.

- 1) Intermediate Operating Permit Application, received December 13, 2006;
- 2) 2007 Emissions Inventory Questionnaire, received May 27, 2008;
- 3) U.S. EPA document AP-42, *Compilation of Air Pollutant Emission Factors*; Volume I, Stationary Point and Area Sources, Fifth Edition; and
- 4) South Coast Air Quality Management District, *South Coast Air Quality Management District Permit Processing Handbook*, August 1989.

Applicable Requirements Included in the Operating Permit but Not in the Application or Previous Operating Permits

In the operating permit application, the installation indicated they were not subject to the following regulation(s). However, in the review of the application, the agency has determined that the installation is subject to the following regulation(s) for the reasons stated.

- 1) 40 CFR Part 63, Subpart HHHHHH, *National Emission Standards for Hazardous Air Pollutants: Paint Stripping and Miscellaneous Surface Coating Operations at Area Sources*
 - a) This rule was promulgated on January 9, 2008, after the operating permit application was submitted. Based on the coating and stripping information provided in the operating permit application, this rule will be applicable to Paint Booths (EU0050 and EU0060) and Surface Preparation Operation Using MeCl (EU0270). The permittee must achieve compliance with the applicable provisions of this rule no later than January 10, 2011.
- 2) 40 CFR Part 63, Subpart WWWW, *National Emission Standards for Hazardous Air Pollutants: Area Source Standards for Plating and Polishing Operations*
 - a) This rule was promulgated on July 1, 2008, after the operating permit application was submitted. Based on the Initial Notification submitted by the permittee, this rule will be applicable to the plasma/flame spray booths (EU0140 through EU0160) and the electrolytic and electroless process tanks (EU0170 through EU0260). The permittee must achieve compliance with the applicable provisions of this rule no later than July 1, 2010.

Other Air Regulations Determined Not to Apply to the Operating Permit

The Air Pollution Control Program (APCP) has determined that the following requirements are not applicable to this installation at this time for the reasons stated.

- 1) 10 CSR 10-6.100, *Alternate Emission Limits*
This rule was not applied because the installation is in an ozone attainment area.
- 2) 10 CSR 10-6.080, *Emission Standards for Hazardous Air Pollutants*
This rule was not applied; see explanation in the NESHAP applicability section below.

Construction Permit Revisions

The following revisions were made to construction permits for this installation:

- 1) Missouri Department of Natural Resources Construction Permit 1098-008 authorized the installation Test Cells 6 and 5 (EU0080 and EU0090).
 - a) This permit was modified by Construction Permit 122004-009 to accommodate testing of larger jet engines. All special conditions found in Construction Permit 1098-008 were superseded by Special Condition 1 of Construction Permit 122004-009.
- 2) Missouri Department of Natural Resources Construction Permit 082000-023 authorized the installation of a vapor degreaser utilizing n-propyl bromide. There are no special conditions associated with this construction permit.
- 3) Missouri Department of Natural Resources Construction Permit 032001-015 authorized the modification of a previously permitted vapor degreaser to allow the use of perchloroethylene. According to Jerry Patton, Environmental Manager, the installation has never used perchloroethylene and has no plans to use it in the future. Therefore, this permit has been revoked and Construction Permit 082000-023 will remain in effect for the vapor degreaser.
- 4) Missouri Department of Natural Resources Construction Permit 122004-009 authorized a modification to Construction Permit 1098-008 to accommodate testing of larger jet engines on Test Cells 6 and 5 (EU0080 and EU0090) and the installation of cartridge collectors on the plasma/flame spray booths (EU0140 through EU0160).
 - a) Special Condition 7.A established an installation wide emission limitation of 250 tons of Volatile Organic Compounds (VOC) in any consecutive 12-month period. However, the permittee has accepted a voluntary, federally enforceable emission limit of less than 100 tons of Volatile Organic Compounds (VOC) in any consecutive 12-month period in order to qualify for an Intermediate State Operating Permit. Therefore, the 250-ton limit is not applied in the operating permit.
 - b) Special Condition 9.A established stack testing requirements for Test Cells 6 and 5 (EU0080 and EU0090). These stack tests have been completed and the results submitted to the Director. Consequently, Special Condition 9.A was not included in the operating permit. Special Conditions 9.B through 9.D were included in the operating permit as requirements for any future stack testing.
 - c) This construction permit listed 10 CSR 10-3.060, *Maximum Allowable Emissions of Particulate Matter from Fuel Burning Equipment Used for Indirect Heating*, as an applicable rule. This rule does not apply to Test Cells 6 and 5 (EU0080 and EU0090) because they are not fuel burning equipment used for indirect heating.
- 5) Missouri Department of Natural Resources Construction Permit 012006-005 (Permit by Rule) authorized the construction of the Production Paint Booth. This unit was not constructed. Since

construction of the paint booth was not started within two years of the construction permit's effective date, January 9, 2006, the construction permit has been cancelled.

New Source Performance Standards (NSPS) Applicability

- 1) 40 CFR Part 60 Subpart Dc, *Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units*
 - a) This rule was not applied to Erie City Boilers 1 and 2 (EU0120 and EU0130) because these emission units were constructed in 1956, which is prior to the June 9, 1989 applicability date.
 - b) This rule was not applied to Superior Boiler because this unit has a maximum design heat input capacity of 2.4 MMBtu/hr and the rule applies only to emission units with maximum design heat input capacity of greater than or equal to 10 MMBtu/hr.
- 2) 40 CFR Part 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*

This rule was not applied to the 20,000-gallon and 22,800-gallon jet fuel storage tanks because according to §60.100b(b), storage vessels with a capacity greater than or equal to 20,000 gallons but less than 40,000 gallons storing a liquid with a maximum true vapor pressure less than 15.0 kPa are exempt. According to U.S. EPA document AP-42, Table 7.1-2, the maximum true vapor pressure at 100°F for jet fuel is 0.029 psi or 0.2 kPa.

Maximum Available Control Technology (MACT) Applicability

- 1) 40 CFR Part 63, Subpart N, *National Emission Standards for Hazardous Air Pollutants for Chromium Emissions from Hard and Decorative Chromium Electroplating and Chromium Anodizing Tanks*

This rule was applied to Hard Chrome Electroplating (EU0070). Those sections of Subpart N that apply to existing hard chromium electroplating tanks located at a large hard electroplating facility (has a maximum cumulative potential rectifier capacity greater than or equal to 60 million amp-hr/year) which is a minor source and that uses an composite mesh-pad (CMP) system add-on air pollution control device were incorporated into Permit Condition EU0070-001.
- 2) 40 CFR Part 63, Subpart Q, *National Emission Standards for Hazardous Air Pollutants for Industrial Process Cooling Towers*

This rule was not applied to the industrial process cooling towers because the cooling towers are operated without chromium-based water treatment chemicals and are neither major sources of hazardous air pollutants (HAP) or are integral parts of installations that are major sources of HAP.
- 3) 40 CFR Part 63 Subpart T, *National Emission Standards for Halogenated Solvent Cleaning*

This rule was not applied because the facility does not use perchloroethylene in its vapor degreaser.
- 4) 40 CFR Part 63, Subpart P, *National Emission Standards for Hazardous Air Pollutants for Engine Test Cells/Standards*

This rule was not applied to the Test Cells (EU0080 through EU0110) because the installation is not a major source of HAP.

Generally Available Control Technology (GACT) Applicability

- 1) 40 CFR Part 63, Subpart H, *National Emission Standards for Hazardous Air Pollutants: Paint Stripping and Miscellaneous Surface Coating Operations at Area Sources*

This rule was applied to Paint Booths (EU0050 and EU0060) because this rule applies to the spray application of coatings that contain the target HAP, which are compounds of chromium (Cr), lead

(Pb), manganese (Mn), nickel (Ni), or cadmium (Cd) to a plastic and/or metal substrate on a part or product. According to the coating information listed in Appendix B-5 of the operating permit application, Paint Booths (EU0050 and EU0060) use coatings that contain the target HAP. The permittee must achieve compliance with the applicable provisions no later than January 10, 2011.

- a) This rule was applied to Surface Preparation Operation Using MeCl (EU0270) because this rule applies to paint stripping operations that involve the use of chemical strippers that contain methylene chloride (MeCl). According to the chemical information listed in Appendix B-3 of the operating permit application, chemical strippers that contain methylene chloride (MeCl) are operated at the facility. The permittee must achieve compliance with the applicable provisions no later than January 10, 2011.
 - b) This rule was not applied to the plasma/flame spray booths (EU0140 through EU0160) because according to §63.11169(d)(6), surface coating activities that are covered under another area source NESHAP are exempt. The plasma/flame spray booths (EU0140 through EU0160) are subject to 40 CFR Part 63 Subpart WWWW, prior to the applicability date of Subpart HHHHH.
 - c) Sections of this rule that apply to dry mechanical polishing equipment were not included in the operating permit because according to Jerry Patton, Environmental Manager, the facility does not operate dry mechanical polishing equipment on finished metals or formed products after plating with any of the plating and polishing metal HAP.
- 2) 40 CFR Part 63, Subpart WWWW, *National Emission Standards for Hazardous Air Pollutants: Area Source Standards for Plating and Polishing Operations*
- a) This rule was not applied to Hard Chrome Electroplating (EU0070) because according to §63.11505(3)(d)(1), this standard does not apply to process units that are subject to the requirements of 40 CFR Part 63, Subpart N.
 - b) This rule was applied to the plasma/flame spray booths (EU0140 through EU0160) and electrolytic and electroless process tanks (EU0170 through EU0260). The permittee must achieve compliance with the applicable provisions no later than July 1, 2010.
 - c) This rule was not applied to process tanks (including copper electroplating operations) that do not contain plating and polishing metal HAP as defined by §63.11511 as any compound of only the following metals: cadmium, chromium, lead, manganese, and nickel, or any of these metals in the elemental form with the exception of lead. Any material that does not contain cadmium, chromium, lead, or nickel in amounts greater than or equal to 0.1 percent by weight, and does not contain manganese in amounts greater than or equal to 1.0 percent by weight, as reported on the Material Safety Data Sheet for the material, is not considered to be a plating and polishing metal HAP.

National Emission Standards for Hazardous Air Pollutants (NESHAP) Applicability

- 1) 40 CFR Part 61 Subpart M, *National Emission Standards for Asbestos*
In the permit application and according to Air Pollution Control Program records, there was no indication that any Missouri Air Conservation Law, Asbestos Abatement, 643.225 through 643.250; 10 CSR 10-6.080, Emission Standards for Hazardous Air Pollutants, Subpart M, National Standards for Asbestos; and 10 CSR 10-6.250, Asbestos Abatement Projects - Certification, Accreditation, and Business Exemption Requirements apply to this installation. The installation is subject to these regulations if they undertake any projects that deal with or involve any asbestos containing materials. None of the installation's operating projects underway at the time of this review deal with or involve asbestos containing material. Therefore, the above regulations were not cited in the

operating permit. If the installation should undertake any construction or demolition projects in the future that deal with or involve any asbestos containing materials, the installation must follow all of the applicable requirements of the above rules related to that specific project.

Other Regulatory Determinations

- 1) 10 CSR 10-3.060, *Maximum Allowable Emissions of Particulate Matter from Fuel Burning Equipment Used for Indirect Heating*
 - a) This rule was not applied to the Test Cells (EU0080 through EU0110) because the test cells are not fuel burning equipment used for indirect heating.
 - b) This rule was applied to Erie City Boilers 1 and 2 (EU0120 and EU0130). Attachment Q contains calculations that demonstrate that the emission units will not exceed the allowable particulate matter emission limit.
 - c) This rule was not applied to the Superior Boiler, a natural gas-fired combustion unit that has a heat input ratings of less than 10 MMBtu/hr. However, the heat input from this unit has been included in calculating the emission limit for Erie City Boilers 1 and 2 (EU0120 and EU0130) as documented in Attachment Q.
- 2) 10 CSR 10-6.220, *Restriction of Emission of Visible Air Contaminants*
 - a) This rule was applied to Finishing Area Abrasive Blasting Operations (EU0010 through EU0030), Wheelabrator Unit (EU0040) and Paint Booths (EU0050 and EU0060). The opacity limit is based on whether the emission unit is new or existing. In the outstate Missouri area, existing is defined as being installed or under construction on February 24, 1971. These emission units were installed post-1971, so for the purposes on this regulation, these emission units are new sources.
 - b) This rule was not applied to Hard Chrome Electroplating (EU0070) because no opacity exceedances would ever be expected from this electroplating emission unit.
 - c) This rule was not applied to Test Cells (EU0080 through EU0110) because according to §(1)(A) internal combustion engines operated outside the Kansas City or St. Louis metropolitan areas are exempt.
 - d) The rule was applied to Erie City Boilers 1 and 2 (EU0120 and EU0130). These emission units were installed pre-1971, so for the purposes on this regulation, these emission units are existing sources.
 - e) This rule was applied to the plasma/flame spray booths (EU0140 though EU0160). These emission units were installed post-1971, so for the purposes on this regulation, these emission units are new sources.
- 3) 10 CSR 10-6.260, *Restriction of Emission of Sulfur Compounds*
 - a) This rule was applied to the Test Cells (EU0080 through EU0110). Attachment P contains calculations that demonstrate that the emission units will not exceed the allowable sulfur emissions limit.
 - b) The rule was applied to Erie City Boilers 1 and 2 (EU0120 and EU0130). The following calculations verify that the emission units comply with this rule when firing oil with a sulfur content of 0.5% or less.
Emission limit is 8.0 lb SO₂/MMBtu
MHDR = 20 MMBTU/hr
Sulfur Content = 0.5%
Fuel = 140 MMBtu/Mgal
SO₂ = 142 x Sulfur content

Therefore, $SO_2 = [(142 \times 0.5) \text{ lb } SO_2/\text{Mgal}] / [140 \text{ MMBtu}/\text{Mgal}] = 0.51 \text{ lb } SO_2/\text{MMBtu}$

- c) This rule was not applied to Superior Boiler because according to §(1)(A)2, combustion equipment that uses exclusively pipeline grade natural gas as defined in 40 CFR 72.2 or liquid petroleum gas as defined by American Society for Testing Materials (ASTM) is exempt.
- 4) 10 CSR 10-6.400, *Restriction of Emission of Particulate Matter from Industrial Processes*
 - a) This rule was applied to the Finishing Area Abrasive Blasting Operations (EU0010 through EU0030) and Wheelabrator Unit (EU0040). The following calculations verify that EU0010 through EU0040 comply with the PM Emission Rate provided that the required control devices are in operation and working properly. EU0010 through EU0030 also comply with the PM Concentration provided that the required control device is in operation and working properly. The stack flow rate for Wheelabrator Unit (EU0040) was not available to verify compliance with the PM Concentration limitation.

Emission Rate Limit

Emission Rate Limit (lb/hr) $E = 4.10(P)^{0.67}$

Where: P = process weight rate

PM Emission Rate

Emission Rate (lb/hr) = MHDR (ton/hr) x PM Emission Factor (lb/ton) x (1-Control Efficiency/100)

EU #	MHDR (ton/hr)	PM Emission Factor ¹ (lb/ton)	Overall Control Efficiency (%)	Uncontrolled Emission Rate (lb/hr)	Controlled Emission Rate (lb/hr)	Allowable Emission Rate (lb/hr)
EU0010	0.08	40	95%	10.08	0.50	1.63
EU0020	0.12					
EU0030	0.05					
EU0040	12.0	40	98%	480.00	9.60	21.67

Notes:

PM emission factors listed below are based on source test data compiled by the South Coast Air Quality Management District (South Coast Air Quality Management District Permit Processing Handbook, Section 2, Unconfined Abrasive Blasting, 8/89).

PM Concentration

Emission rate (gr/dscf) = Emission Rate (lb/hr) x (7000 grains/lb)/Stack flow rate (SCFM)/60(min/hr)
Flow rates converted from actual to standard conditions using the ideal gas law.

EU #	Controlled Emission Rate (lb/hr)	Stack Temp °F	Stack Flow		Emission Rate (gr/scf)	Allowable Emission Rate (gr/scf)
			ACFM	SCFM		
EU0010/20/30	0.50	77	3,720	3,658	.016	0.3
EU0040	9.6	NA	NA	NA	NA	0.3

- b) This rule was applied to the Paint Booths (EU0050 and EU0060). The following calculations verify that these emission units comply with both the PM Emission Rate and the PM Concentration provided that the required control devices are in operation and working properly.

Emission Rate Limit

Emission Rate Limit (lb/hr) $E = 4.10(P)^{0.67}$

Where: P = process weight rate

However, according to 10 CSR 10-6.400(1)(b)11, emission sources that at a maximum design capacity have a potential to emit less than 0.5 pounds per hour of PM are exempt. Therefore, the PM emission limit has been listed as 0.5 pounds per hour when the above equation calculates an emission rate of less than 0.5 pounds per hour.

PM Emission Rate

$$\text{Emission Rate (lb/hr)} = \text{MHDR (ton/hr)} \times \text{PM Emission Factor (lb/ton)} \times (1 - \text{Transfer Efficiency}/100) \times (1 - \text{Control Efficiency}/100)$$

Where: $\text{Emission Factor (lb/ton)} = (\% \text{ solids}/100) \times (2000 \text{ lb/ton})$

EU #	MHDR (gal/hr)	Density (lb/gal)	Process Weight (ton/hr)	% Solids	Emission Factor (lb/ton)	Transfer Eff. (%)	Overall Control Device Efficiency (%)	Controlled Emission Rate (lb/hr)	Emission Rate Limit (lb/hr)
EU0050	1.785	9.68	0.009	99.5	1990	75	90	0.43	<0.5
EU0060	0.856	13.26	0.006	100	2000	75	98	0.06	<0.5

PM Concentration

$$\text{Emission rate (gr/dscf)} = \text{Emission Rate (lb/hr)} \times (7000 \text{ grains/lb}) / \text{Stack Flow Rate (SCFM)} / 60(\text{min/hr})$$

Flow rates converted from actual to standard conditions using the ideal gas law.

EU #	Controlled Emission Rate (lb/hr)	Stack Temp °F	Stack Flow		Emission Rate (gr/scf)	Allowable Emission Rate (gr/scf)
			ACFM	SCFM		
EU0050	0.43	75	23,000	22,785	0.002	0.3
EU0060	0.06	75	8,871	8,788	0.001	0.3

- c) This rule was not applied to the Test Cells (EU0080 through EU0110) because according to §(2)(A), liquids and gases used solely as fuels and air introduced for purposes of combustion are not included in the process weight.
- d) This rule was not applied to Erie City Boilers 1 and 2 (EU0120 and EU0130) because according to §(1)(B)6, the burning of fuel for indirect heating is exempt.
- e) This rule was applied to the plasma/flame spray booths (EU0140 though EU0160). The following calculations verify that EU0140 and EU0150 comply with both the PM Emission Rate and the PM Concentration provided that the required control device is in operation and working properly. EU0160 complies with the PM Emission Rate. The stack flow rate for EU0160 was not available to verify compliance with the PM Concentration limitation.

Emission Rate Limit

$$\text{Emission Rate Limit (lb/hr)} E = 4.10(P)^{0.67}$$

Where: P = process weight rate

However, according to 10 CSR 10-6.400(1)(b)11, emission sources that at a maximum design capacity have a potential to emit less than 0.5 pounds per hour of PM are exempt. Therefore, the PM emission limit has been listed as 0.5 pounds per hour when the above equation calculates an emission rate of less than 0.5 pounds per hour.

PM Emission Rate

$$\text{Emission Rate (lb/hr)} = \text{MHDR (ton/hr)} \times \text{PM Emission Factor (lb/ton)} \times (1 - \text{Transfer Efficiency}/100) \times (1 - \text{Control Efficiency}/100)$$

Where: $\text{Emission Factor (lb/ton)} = (\% \text{ solids}/100) \times (2000 \text{ lb/ton})$ assumed 100% solids

EU #	MHDR (lb/hr)	MHDR (ton/hr)	Emission Factor (lb/ton)	Transfer Efficiency (%)	Overall Control Efficiency (%)	Controlled PM Emission Rate (lb/hr)	Emission Rate Limit (lb/hr)
EU0140	25	0.0125	2000	65	99	0.09	0.5
EU0150	25	0.0125	2000	65	99	0.09	0.5
EU0160	25	0.0125	2000	65	99	0.09	0.5

PM Concentration

Emission rate (gr/dscf) = Emission Rate (lb/hr) x (7000 grains/lb)/Stack Flow Rate (SCFM)/60(min/hr)
Flow rates converted from actual to standard conditions using the ideal gas law.

EU #	Controlled PM Emission Rate (lb/hr)	Stack Temp. °F	Stack Flow		Emission Rate gr/scf	Emission Limit gr/scf
			ACFM	SCFM		
EU0140	0.09	120	6,840	6,250	0.002	0.3
EU0150	0.09	120	6,840	6,250	0.002	0.3
EU0160	0.09	120	NA	NA	NA	0.3

- f) This rule does not apply to Industrial Process Cooling Towers and Production Weld Stations because the according to §(1)(B)7, fugitive emission sources are exempt.
- 5) The electric sludge dryer and sludge conveyor are listed as emission units without limitations. The electric sludge dryer and conveyor are used to dry and convey sludge from the wastewater treatment operations for subsequent disposal offsite. Excess heat from the operation is exhausted through a horizontal stack. The air flows at a low velocity and does not cause particulates to be released from the sludge. There are no known PM emission factors but it is the facility's experience that the PM emissions are insignificant, i.e. less than 0.5 pounds per hour.
- 6) Tool Fabrication Shop is a maintenance shop that is used to maintain tools e.g. sharpening etc. and is not related to the source's primary business activity. This unit is listed as an emission unit without limitations.
- 7) The emission unit listed as Production Paint Booth on page 54 of the operating permit application and authorized by Construction Permit 012006-005 (Permit by Rule) was not constructed. This unit is not included in the operating permit.
- 8) The emission unit listed as ICM Superhone Abrasive Blasting on page 13 of the operating permit application has been removed from the facility. This unit is not included in the operating permit.
- 9) The emission unit listed as Flow Bench Operations on page 58 of the operating permit application has been removed from the facility. This unit is not included in the operating permit.
- 10) The Flow Bench Operations (stack vented) listed as P-4A on page 58 of the operating permit application has been removed from the facility. This unit is not included in the operating permit.

Other Regulations Not Cited in the Operating Permit or the Above Statement of Basis

Any regulation which is not specifically listed in either the Operating Permit or in the above Statement of Basis does not appear, based on this review, to be an applicable requirement for this installation for one or more of the following reasons.

- 1) The specific pollutant regulated by that rule is not emitted by the installation.
- 2) The installation is not in the source category regulated by that rule.

- 3) The installation is not in the county or specific area that is regulated under the authority of that rule.
- 4) The installation does not contain the type of emission unit which is regulated by that rule.
- 5) The rule is only for administrative purposes.

Should a later determination conclude that the installation is subject to one or more of the regulations cited in this Statement of Basis or other regulations which were not cited, the installation shall determine and demonstrate, to the Air Pollution Control Program's satisfaction, the installation's compliance with that regulation(s). If the installation is not in compliance with a regulation which was not previously cited, the installation shall submit to the Air Pollution Control Program a schedule for achieving compliance for that regulation(s).

Drafted by Barbara Campion, Campion Engineering, Inc.

Prepared by:

Jason Dickneite
Environmental Engineer

CERTIFIED MAIL: 70073020000315698845
RETURN RECEIPT REQUESTED

Mr. Mark Knight
Premier Turbines
3551 Doniphan Drive
Neosho, MO 64850

Re: Premier Turbines, 145-0044
Permit Number: **OP2010-015**

Dear Mr. Knight:

Enclosed with this letter is your intermediate operating permit. Please review this document carefully. Operation of your installation in accordance with the rules and regulations cited in this document is necessary for continued compliance. It is very important that you read and understand the requirements contained in your permit.

You may appeal this permit to the Administrative Hearing Commission (AHC), P.O. Box 1557, Jefferson City, MO 65102, as provided in RSMo 643.075.6 and 621.250.3. If you choose to appeal, you must file a petition with the AHC within thirty (30) days after the date this decision was mailed or the date it was delivered, whichever date was earlier. If you send your appeal by registered or certified mail, we will deem it filed on the date you mailed it. If you send your appeal by a method other than registered or certified mail, we will deem it filed on the date the AHC receives it.

If you have any questions or need additional information regarding this permit, please do not hesitate to contact Jason Dickneite at the Department's Air Pollution Control Program, P.O. Box 176, Jefferson City, MO 65102, or by telephone at (573) 751-4817. Thank you for your time and attention to this matter.

Sincerely,

AIR POLLUTION CONTROL PROGRAM

Michael J. Stansfield, P.E.
Operating Permit Unit Chief

MJS/jdk

Enclosures

c: Ms. Tamara Freeman, US EPA Region VII
Southwest Regional Office
PAMS File: 2006-12-038