

**MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY
AIR QUALITY DIVISION**

FEBRUARY 2, 2021

**PERMIT TO INSTALL
41-00F**

**ISSUED TO
ALUDYNE MONTAGUE, LLC**

**LOCATED AT
5353 WILCOX STREET
MONTAGUE, MICHIGAN 49437**

**IN THE COUNTY OF
MUSKEGON**

**STATE REGISTRATION NUMBER
B1925**

The Air Quality Division has approved this Permit to Install, pursuant to the delegation of authority from the Michigan Department of Environment, Great Lakes, and Energy. This permit is hereby issued in accordance with and subject to Section 5505(1) of Article II, Chapter I, Part 55, Air Pollution Control, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended. Pursuant to Air Pollution Control Rule 336.1201(1), this permit constitutes the permittee's authority to install the identified emission unit(s) in accordance with all administrative rules of the Department and the attached conditions. Operation of the emission unit(s) identified in this Permit to Install is allowed pursuant to Rule 336.1201(6).

DATE OF RECEIPT OF ALL INFORMATION REQUIRED BY RULE 203: January 12, 2021	
DATE PERMIT TO INSTALL APPROVED: February 2, 2021	SIGNATURE:
DATE PERMIT VOIDED:	SIGNATURE:
DATE PERMIT REVOKED:	SIGNATURE:

PERMIT TO INSTALL

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COMMON ACRONYMS

AQD	Air Quality Division
BACT	Best Available Control Technology
CAA	Clean Air Act
CAM	Compliance Assurance Monitoring
CEMS	Continuous Emission Monitoring System
CFR	Code of Federal Regulations
COMS	Continuous Opacity Monitoring System
Department/department/EGLE	Michigan Department of Environment, Great Lakes, and Energy
EU	Emission Unit
FG	Flexible Group
GACS	Gallons of Applied Coating Solids
GC	General Condition
GHGs	Greenhouse Gases
HVLP	High Volume Low Pressure*
ID	Identification
IRSL	Initial Risk Screening Level
ITSL	Initial Threshold Screening Level
LAER	Lowest Achievable Emission Rate
MACT	Maximum Achievable Control Technology
MAERS	Michigan Air Emissions Reporting System
MAP	Malfunction Abatement Plan
MSDS	Material Safety Data Sheet
NA	Not Applicable
NAAQS	National Ambient Air Quality Standards
NESHAP	National Emission Standard for Hazardous Air Pollutants
NSPS	New Source Performance Standards
NSR	New Source Review
PS	Performance Specification
PSD	Prevention of Significant Deterioration
PTE	Permanent Total Enclosure
PTI	Permit to Install
RACT	Reasonable Available Control Technology
ROP	Renewable Operating Permit
SC	Special Condition
SCR	Selective Catalytic Reduction
SNCR	Selective Non-Catalytic Reduction
SRN	State Registration Number
TBD	To Be Determined
TEQ	Toxicity Equivalence Quotient
USEPA/EPA	United States Environmental Protection Agency
VE	Visible Emissions

*For HVLP applicators, the pressure measured at the gun air cap shall not exceed 10 psig.

POLLUTANT / MEASUREMENT ABBREVIATIONS

acfm	Actual cubic feet per minute
BTU	British Thermal Unit
°C	Degrees Celsius
CO	Carbon Monoxide
CO _{2e}	Carbon Dioxide Equivalent
dscf	Dry standard cubic foot
dscm	Dry standard cubic meter
°F	Degrees Fahrenheit
gr	Grains
HAP	Hazardous Air Pollutant
Hg	Mercury
hr	Hour
HP	Horsepower
H ₂ S	Hydrogen Sulfide
kW	Kilowatt
lb	Pound
m	Meter
mg	Milligram
mm	Millimeter
MM	Million
MW	Megawatts
NMOC	Non-Methane Organic Compounds
NO _x	Oxides of Nitrogen
ng	Nanogram
PM	Particulate Matter
PM10	Particulate Matter equal to or less than 10 microns in diameter
PM2.5	Particulate Matter equal to or less than 2.5 microns in diameter
pph	Pounds per hour
ppm	Parts per million
ppmv	Parts per million by volume
ppmw	Parts per million by weight
psia	Pounds per square inch absolute
psig	Pounds per square inch gauge
scf	Standard cubic feet
sec	Seconds
SO ₂	Sulfur Dioxide
TAC	Toxic Air Contaminant
Temp	Temperature
THC	Total Hydrocarbons
tpy	Tons per year
µg	Microgram
µm	Micrometer or Micron
VOC	Volatile Organic Compounds
yr	Year

GENERAL CONDITIONS

1. The process or process equipment covered by this permit shall not be reconstructed, relocated, or modified, unless a Permit to Install authorizing such action is issued by the Department, except to the extent such action is exempt from the Permit to Install requirements by any applicable rule. **(R 336.1201(1))**
2. If the installation, construction, reconstruction, relocation, or modification of the equipment for which this permit has been approved has not commenced within 18 months, or has been interrupted for 18 months, this permit shall become void unless otherwise authorized by the Department. Furthermore, the permittee or the designated authorized agent shall notify the Department via the Supervisor, Permit Section, Air Quality Division, Michigan Department of Environment, Great Lakes, and Energy, P.O. Box 30260, Lansing, Michigan 48909-7760, if it is decided not to pursue the installation, construction, reconstruction, relocation, or modification of the equipment allowed by this Permit to Install. **(R 336.1201(4))**
3. If this Permit to Install is issued for a process or process equipment located at a stationary source that is not subject to the Renewable Operating Permit program requirements pursuant to Rule 210 (R 336.1210), operation of the process or process equipment is allowed by this permit if the equipment performs in accordance with the terms and conditions of this Permit to Install. **(R 336.1201(6)(b))**
4. The Department may, after notice and opportunity for a hearing, revoke this Permit to Install if evidence indicates the process or process equipment is not performing in accordance with the terms and conditions of this permit or is violating the Department's rules or the Clean Air Act. **(R 336.1201(8), Section 5510 of Act 451, PA 1994)**
5. The terms and conditions of this Permit to Install shall apply to any person or legal entity that now or hereafter owns or operates the process or process equipment at the location authorized by this Permit to Install. If the new owner or operator submits a written request to the Department pursuant to Rule 219 and the Department approves the request, this permit will be amended to reflect the change of ownership or operational control. The request must include all of the information required by subrules (1)(a), (b), and (c) of Rule 219 and shall be sent to the District Supervisor, Air Quality Division, Michigan Department of Environment, Great Lakes, and Energy. **(R 336.1219)**
6. Operation of this equipment shall not result in the emission of an air contaminant which causes injurious effects to human health or safety, animal life, plant life of significant economic value, or property, or which causes unreasonable interference with the comfortable enjoyment of life and property. **(R 336.1901)**
7. The permittee shall provide notice of an abnormal condition, start-up, shutdown, or malfunction that results in emissions of a hazardous or toxic air pollutant which continue for more than one hour in excess of any applicable standard or limitation, or emissions of any air contaminant continuing for more than two hours in excess of an applicable standard or limitation, as required in Rule 912, to the Department. The notice shall be provided not later than two business days after start-up, shutdown, or discovery of the abnormal condition or malfunction. Written reports, if required, must be filed with the Department within 10 days after the start-up or shutdown occurred, within 10 days after the abnormal condition or malfunction has been corrected, or within 30 days of discovery of the abnormal condition or malfunction, whichever is first. The written reports shall include all of the information required in Rule 912(5). **(R 336.1912)**
8. Approval of this permit does not exempt the permittee from complying with any future applicable requirements which may be promulgated under Part 55 of 1994 PA 451, as amended or the Federal Clean Air Act.
9. Approval of this permit does not obviate the necessity of obtaining such permits or approvals from other units of government as required by law.
10. Operation of this equipment may be subject to other requirements of Part 55 of 1994 PA 451, as amended and the rules promulgated thereunder.

11. Except as provided in subrules (2) and (3) or unless the special conditions of the Permit to Install include an alternate opacity limit established pursuant to subrule (4) of Rule 301, the permittee shall not cause or permit to be discharged into the outer air from a process or process equipment a visible emission of density greater than the most stringent of the following. The grading of visible emissions shall be determined in accordance with Rule 303 (R 336.1303). **(R 336.1301)**
 - a) A six-minute average of 20 percent opacity, except for one six-minute average per hour of not more than 27 percent opacity.
 - b) A visible emission limit specified by an applicable federal new source performance standard.
 - c) A visible emission limit specified as a condition of this Permit to Install.
12. Collected air contaminants shall be removed as necessary to maintain the equipment at the required operating efficiency. The collection and disposal of air contaminants shall be performed in a manner so as to minimize the introduction of contaminants to the outer air. Transport of collected air contaminants in Priority I and II areas requires the use of material handling methods specified in Rule 370(2). **(R 336.1370)**
13. The Department may require the permittee to conduct acceptable performance tests, at the permittee's expense, in accordance with Rule 1001 and Rule 1003, under any of the conditions listed in Rule 1001. **(R 336.2001)**

EMISSION UNIT SPECIAL CONDITIONS

EMISSION UNIT SUMMARY TABLE

The descriptions provided below are for informational purposes and do not constitute enforceable conditions.

Emission Unit ID	Emission Unit Description (Including Process Equipment & Control Device(s))	Installation Date / Modification Date	Flexible Group ID
EU_Dryer	Chip dryer consisting of an enclosed heated screw conveyor utilizing waste heat from the melting furnaces. The dryer has a fuel rating of 6.6 MMBtu/hr of natural gas. Exhaust gas is routed to a 7 MMBTU/hr thermal oxidizer.	1/29/2019	NA
EU_Furn1	Natural gas fired aluminum melting furnace, 140,000 pounds capacity. 28 MMBtu/hr natural gas fired furnace with a design throughput rate of 8.0 tons per hour. This is a furnace processing clean charge with reactive fluxing.	8/19/2000	FG_Furn1,2
EU_Furn2	Natural gas fired aluminum melting furnace, 140,000 pounds capacity. 28 MMBtu/hr natural gas fired furnace with a design throughput rate of 8.0 tons per hour. This is a furnace processing clean charge with reactive fluxing.	8/19/2000	FG_Furn1,2
EU_Silo	Sand Storage Silo, 200 tons capacity, with a fabric filter dust collection system. Includes transfer of sand from trucks to the silo and pneumatic sand feed through enclosed piping from the silo through two 2.5-ton storage hoppers to EUCOREPUCB. This emission unit replaces EU_Silo in PTI No. 41-00A which was not installed.	01/01/2011	NA
EU_CorePUCB	Phenolic Urethane Cold Box core making process. Heated sand is mixed with resin and set to make cores. Dimethylisopropylamine (DMIPA) catalyst emission control is a B&P Model MC07 Packed Tower Scrubber. Equipment includes two electric sand heaters; two Model VSM-122 Kline Mixers; two Loramendi Model SLCA-40L-CF core making machines.	01/01/2011	NA
EU_Misc	Use of materials ancillary to the core making process including daub/mud, glue/paste, coating, core box release agent, and metal cleaners	01/01/2011	NA
EU_SPMC	Semi-Permanent Mold Casting operations. Aluminum parts are cast and cooled utilizing steel molds and sand cores.	08/14/2000	NA

Changes to the equipment described in this table are subject to the requirements of R 336.1201, except as allowed by R 336.1278 to R 336.1291.

**EU_Dryer
 EMISSION UNIT CONDITIONS**

DESCRIPTION

Chip dryer consisting of an enclosed heated screw conveyor utilizing waste heat from the melting furnaces. The dryer has a fuel rating of 6.6 MMBtu/hr of natural gas. Exhaust gas is routed to a thermal oxidizer.

Flexible Group ID: NA

POLLUTION CONTROL EQUIPMENT

Natural gas fired 7 MMBtu/hr Thermal Oxidizer

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Monitoring / Testing Method	Underlying Applicable Requirements
1. Dioxins and furans	3.5 x 10 ⁻⁵ gr D/F TEQ per ton of feed/charge	Hourly	EU_Dryer	SC V.1	40 CFR 63.1503, 40 CFR 63.1505(c)(2)
2. PM10	1.40 pph	Hourly	EU_Dryer	SC V.1, SC V.2	R 336.1205, R 336.1224, R 336.1225
3. PM2.5	1.40 pph	Hourly	EU_Dryer	SC V.1, SC V.2	R 336.1205, R 336.1224, R 336.1225
4. VOC	0.80 lb/ton of feed/charge	Hourly	EU_Dryer	SC V.1	R 336.1205, R 336.1702

II. MATERIAL LIMIT(S)

1. The aluminum chips charge rate for EU_Dryer shall not exceed 60,000 pounds per day based on daily usage records. **(R 336.1205, R 336.1224, R 336.1225)**
2. The feedstock charged to EU_Dryer shall be only unpainted/uncoated aluminum chips. **(R 336.1224, R 336.1225, 40 CFR 63.1503, 40 CFR 63.1506(f)(3))**

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall not operate EU_Dryer unless the thermal oxidizer is installed, maintained and operated in a satisfactory manner. Satisfactory operation of the thermal oxidizer includes a minimum temperature of 1400°F or the temperature established during the most recent acceptable stack test, and a minimum retention time of 0.5 seconds. **(R 336.1205, R 336.1224, R 336.1225, R 336.1702, R 336.1910)**
2. The permittee shall maintain and operate EU_Dryer and the associated thermal oxidizer according to the procedures outlined in the Operations, Malfunction, Maintenance and Monitoring (OM&M) Plan and Startup, Shutdown and Malfunction (SSM) Plan required in Subpart 40 requirements and as specified in Appendix A. DMI must comply with the OM&M and SSM Plans, and deviations from the plans will be considered deviations from permit requirements. **(40 CFR Part 63 Subpart RRR, R 336.1910, EPA-5-15-113(a)-MI-04)**

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall use only the combustion of natural gas or waste heat from the furnaces in FG_Furn1,2,3 as the heat source for EU_Dryer. **(R 336.1205, R 336.1224, R 336.1225, R 336.1702, 40 CFR 52.21(c) & (d))**
2. The permittee shall not operate EU_Dryer unless the thermal oxidizer is installed, maintained and operated in a satisfactory manner. **(R 336.1205, R 336.1224, R 336.1225, R 336.1702, 40 CFR 52.21(c) & (d), 40 CFR 63.1506(f))**
3. The permittee shall not operate EU_Dryer unless a device that measures and records or otherwise determines the weight of feed/charge to EU_Dryer for each operating cycle or time period used in the performance test is installed, maintained, and operated in a satisfactory manner. **(R 336.1205, R 336.1224, R 336.1225, 40 CFR 63.1503, 40 CFR 63.1506(d))**

V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. **(R 336.1201(3))**

1. Upon request of the AQD District Supervisor, the permittee shall verify dioxin/furan, PM, PM10, PM2.5, and VOC emission rates from EU_Dryer by testing at the owner's expense, in accordance with Department requirements. Testing shall be performed using an approved EPA Method listed in 40 CFR Part 60, Appendix A; Part 10 of the Michigan Air Pollution Control Rules, and 40 CFR Part 51, Appendix M. An alternate method, or a modification to the approved EPA Method, may be specified in an AQD approved Test Protocol. No less than 30 days prior to testing, the permittee shall submit a complete test plan to the AQD Technical Programs Unit and District Office. The AQD must approve the final plan prior to testing, including any modifications to the method in the test protocol that are proposed after initial submittal. The permittee must submit a complete report of the test results to the AQD Technical Programs Unit and District Office within 60 days following the last date of the test. **(R 336.1205, R 336.1331, R 336.2001, R 336.2003, R 336.2004, 40 CFR Part 63 Subpart RRR))**
2. Within 3 years of permit issuance, the permittee shall verify PM10 and PM2.5 emission rates from EU_Dryer by testing at the owner's expense, in accordance with Department requirements. Testing shall be performed using an approved EPA Method listed in 40 CFR Part 51, Appendix M. An alternate method, or a modification to the approved EPA Method, may be specified in an AQD approved Test Protocol. No less than 30 days prior to testing, the permittee shall submit a complete test plan to the AQD Technical Programs Unit and District Office. The AQD must approve the final plan prior to testing, including any modifications to the method in the test protocol that are proposed after initial submittal. The permittee must submit a complete report of the test results to the AQD Technical Programs Unit and District Office within 60 days following the last date of the test. **(R 336.1205, R 336.1331, R 336.2001, R 336.2003, R 336.2004, 40 CFR Part 63 Subpart RRR))**

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. **(R 336.1201(3))**

1. The permittee shall monitor and record, in a satisfactory manner, the weight of feed/charge to EU_Dryer for each operating cycle or time period used in the performance test and on a daily basis. **(R 336.1205, R 336.1224, R 336.1225, R 336.1702, 40 CFR 63.1503, 40 CFR 63.1506(d), 40 CFR 52.21(c) & (d))**
2. The permittee shall monitor and record, in a satisfactory manner, the type of materials charged to EU_Dryer for each operating cycle or time period used in the performance test. **(R 336.1205, R 336.1224, R 336.1225, R 336.1702, 40 CFR 63.1503, 40 CFR 63.1510(k), 40 CFR 52.21(c) & (d))**
3. The permittee shall monitor and record, in a satisfactory manner, the temperature of the afterburner. The 3-hour block average temperature for the afterburner shall be maintained at or above the 3-hour block average temperature established during the performance test. **(R 336.1205, R 336.1224, R 336.1225, R 336.1702, 40 CFR 63.1503, 40 CFR 1510(g)(1), 40 CFR 63.1510(k), 40 CFR 52.21(c) & (d))**

VII. REPORTING

1. The permittee shall submit a certification of compliance with the applicable operational standard for charge materials in 40 CFR 63.1506(f)(3) for each 6-month reporting period. Each certification must contain the information in 40 CFR 63.1516(b)(2)(i). **(40 CFR 63.1510(k))**

VIII. STACK/VENT RESTRICTION(S)

The exhaust gases from the stacks listed in the table below shall be discharged unobstructed vertically upwards to the ambient air unless otherwise noted:

Stack & Vent ID	Maximum Exhaust Diameter / Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SV_Oxidizer	32	60	R 336.1224, R 336.1225

IX. OTHER REQUIREMENT(S)

1. The permittee shall comply with all provisions of the National Emission Standards for Hazardous Air Pollutants as specified in 40 CFR Part 63 Subparts A and RRR, as they apply to EU_Dryer. **(40 CFR Part 63 Subparts A & RRR)**

Footnotes:

¹ This condition is state only enforceable and was established pursuant to Rule 201(1)(b).

EU_Silo
EMISSION UNIT CONDITIONS

DESCRIPTION

Sand Storage Silo, 200 tons capacity, with a fabric filter dust collection system. Includes transfer of sand from trucks to the silo and pneumatic sand feed through enclosed piping from the silo through two 2.5-ton storage hoppers to EUCOREPUCB. This emission unit replaces EU_Silo in PTI No. 41-00A which was not installed.

Flexible Group ID: NA

POLLUTION CONTROL EQUIPMENT

Fabric filter dust collection system

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Monitoring / Testing Method	Underlying Applicable Requirements
1. PM	0.10 lb/1,000 lb exhaust gas	Hourly	EU_Silo	SC V.1	R 336.1331
2. PM10	0.06 tpy	12-month rolling time period as determined at the end of each calendar month	EU_Silo	SC VI.2	R 336.1205
3. PM2.5	0.06 tpy	12-month rolling time period as determined at the end of each calendar month	EU_Silo	SC VI.2	R 336.1205

II. MATERIAL LIMIT(S)

Material	Limit	Time Period / Operating Scenario	Equipment	Monitoring / Testing Method	Underlying Applicable Requirements
1. Sand	41,610 tons/yr	12-month rolling time period	EU_Silo	SC VI.1	R 336.1331

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall not operate EU_Silo unless a malfunction abatement plan (MAP) as described in Rule 911(2), for the sand storage and handling operations, has been submitted within 90 days of permit issuance, and is implemented and maintained. **(R 336.1225, R 336.1331, R 336.1702(a), R 336.1910, R 336.1911, 40 CFR 52.21(c) & (d))**

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall not operate EU_Silo unless the fabric filter system is installed, maintained, and operated in a satisfactory manner. **(R 336.1205, R 336.1301, R 336.1331)**

V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. **(R 336.1201(3))**

1. The permittee shall, upon request by the Department, verify and quantify PM, PM10, and PM2.5 emission rates from EU_Silo, by testing at owner's expense, in accordance with Department requirements. Not less than 60 days prior to testing, a complete test plan shall be submitted to the AQD. The final plan must be approved by the AQD prior to testing. Verification of emission rates includes the submittal of a complete report of the test results to the AQD within 60 days following the last date of the test. **(R 336.1331, R 336.2001, R 336.2003, R 336.2004)**

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. **(R 336.1201(3))**

1. The permittee shall monitor and record, in a satisfactory manner, the sand usage for EU_Silo on a monthly and 12-month rolling time period basis. **(R 336.1205, R 336.1301, R 336.1331)**
2. The permittee shall calculate the PM10 and PM2.5 emission rates from EU_Silo for each 12-month rolling time period using a method acceptable to the AQD District Supervisor. **(R 336.1205, R 336.1331, 40 CFR 52.21)**

VII. REPORTING

NA

VIII. STACK/VENT RESTRICTION(S)

NA

IX. OTHER REQUIREMENT(S)

NA

**EU_CorePUCB
EMISSION UNIT CONDITIONS**

DESCRIPTION

Phenolic Urethane Cold Box core making process. Heated sand is mixed with resin and set to make cores. Dimethylisopropylamine (DMIPA) catalyst emission control is a B&P Model MC07 Packed Tower Scrubber. Equipment includes two electric sand heaters; two Model VSM-122 Kline Mixers; two Loramendi Model SLCA-40L-CF core making machines.

Flexible Group ID: NA

POLLUTION CONTROL EQUIPMENT

Dimethylisopropylamine (DMIPA) catalyst emission control is a B&P Model MC07 Packed Tower Scrubber

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Monitoring / Testing Method	Underlying Applicable Requirements
1. PM	0.1 lb/1,000 lb exhaust gas	Hourly	EU_CorePUCB	SC V.1	R 336.1331, R 336.1225
2. PM10	0.02 pph	Hourly	EU_CorePUCB	SC V.1	R 336.1205, R 336.1224, R 336.1225
3. PM10	0.09 tpy	12-month rolling time period as determined at the end of each calendar month	EU_CorePUCB	SC VI.3	R 336.1205, R 336.1224, R 336.1225
4. PM2.5	0.02 pph	Hourly	EU_CorePUCB	SC V.1	R 336.1224, R 336.1225
5. PM2.5	0.09 tpy	12-month rolling time period as determined at the end of each calendar month	EU_CorePUCB	SC VI.3	R 336.1205, R 336.1224, R 336.1225
6. VOC	2.5 pph	Hourly	EU_CorePUCB	SC V.1	R 336.1702
7. VOC	10.96 tpy	12-month rolling time period as determined at the end of each calendar month	EU_CorePUCB	SC VI.3	R 336.1702
8. DMIPA	0.148 pph	Hourly	EU_CorePUCB	SC V.1	R 336.1224, R 336.1225
9. DMIPA	0.65 tpy	12-month rolling time period as determined at the end of each calendar month	EU_CorePUCB	SC VI.3	R 336.1224, R 336.1225

II. MATERIAL LIMIT(S)

Material	Limit	Time Period / Operating Scenario	Equipment	Monitoring / Testing Method	Underlying Applicable Requirements
1. Resin Part A	228.86 tons	12-month rolling time period as determined at the end of each calendar month	core making	SC VI.1	R 336.1702
2. Resin Part B	187.25 tons	12-month rolling time period as determined at the end of each calendar month	core making	SC VI.1	R 336.1702
3. Catalyst DMIPA	62.42 tons	12-month rolling time period as determined at the end of each calendar month	core making	SC VI.1	R 336.1702

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall not operate EU_CorePUCB unless a malfunction abatement plan (MAP) as described in Rule 911(2), for the core making operations, has been submitted within 90 days of permit issuance, and is implemented and maintained. DMI must comply with the MAP, and deviations from the MAP will be considered deviations from permit requirements. The MAP shall include a pressure drop range for the packed tower scrubber to define proper operation of the control equipment. **(R 336.1225, R 336.1331, R 336.1702(a), R 336.1910, R 336.1911, 40 CFR 52.21(c) & (d), EPA-5-15-113(a)-MI-04)**
2. The permittee shall not operate EU_CorePUCB unless the packed tower scrubber solution pH is 5.0 or lower. **(R 336.1205, R 336.1224, R 336.1225, R 336.1702, R 336.1901, R 336.1910)**
3. The permittee shall not operate EU_CorePUCB unless the packed tower scrubber solution flow rate is 57.5 gallons per minute or more. **(R 336.1205, R 336.1224, R 336.1225, R 336.1702, R 336.1901, R 336.1910)**
4. The permittee shall not operate EU_CorePUCB unless the pressure drop across the packed tower scrubber is within the 0.5 – 6.0 inches of water column range. **(R 336.1205, R 336.1224, R 336.1225, R 336.1702, R 336.1901, R 336.1910, EPA-5-15-113(a)-MI-04)**

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall not operate EU_CorePUCB unless the packed tower scrubber system is installed, maintained, and operated in a satisfactory manner. **(R 336.1205, R 336.1301, R 336.1331)**
2. The permittee shall install, calibrate, maintain and operate in a satisfactory manner, devices to monitor the scrubber solution flow rate and pH and the pressure drop across the scrubber on a continuous basis when EU_CorePUCB is in operation. **(R 336.1205, R 336.1224, R 336.1225, R 336.1301, R 336.1331, R 336.1602, R 336.1702, R 336.1901, R 336.1910, 40 CFR 52.21)**

V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. **(R 336.1201(3))**

1. The permittee shall, upon request by the Department, verify and quantify PM, PM10, and PM2.5 emission rates from EU_CorePUCB, by testing at owner's expense, in accordance with Department requirements. Not less than 60 days prior to testing, a complete test plan shall be submitted to the AQD. The final plan must be approved by the AQD prior to testing. Verification of emission rates includes the submittal of a complete report of the test results to the AQD within 60 days following the last date of the test. **(R 336.1331, R 336.2001, R 336.2003, R 336.2004)**

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. **(R 336.1201(3))**

1. The permittee shall monitor and record, in a satisfactory manner, the usage of each resin and catalyst for EU_CorePUCB on a monthly and 12-month rolling time period basis. **(R 336.1205, R 336.1301, R 336.1331)**
2. The permittee shall monitor the scrubber solution flow rate and pH and the pressure drop across the scrubber in a satisfactory manner on a continuous basis when EU_CorePUCB is in operation. The permittee shall calculate and automatically record 5-minute block average pressure drop and flow rate to an electronic file and trigger an alarm (a sound device and warning light) when the 5-minute block average pressure drops below 0.5 inches of water column or exceeds 6.0 inches of water column and when the 5-minute block average flow rate drops below 57.5 gpm. The permittee shall record pH data at least once every operating shift. **(R 336.1205, R 336.1224, R 336.1225, R 336.1301, R 336.1331, R 336.1602, R 336.1702, R 336.1901, R 336.1910, EPA-5-15-113(a)-MI-04)**
3. The permittee shall calculate the PM10 and PM2.5, VOC, and DMIPA emission rates from EU_CorePUCB for each 12-month rolling time period using a method acceptable to the AQD District Supervisor. **(R 336.1205, R 336.1331, 40 CFR 52.21)**

VII. REPORTING

NA

VIII. STACK/VENT RESTRICTION(S)

The exhaust gases from the stacks listed in the table below shall be discharged unobstructed vertically upwards to the ambient air unless otherwise noted:

Stack & Vent ID	Maximum Exhaust Diameter / Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SV_CorePUCB	24	62	R 336.1224, R 336.1225, R 336.1702

IX. OTHER REQUIREMENT(S)

NA

EU_Misc
EMISSION UNIT CONDITIONS

DESCRIPTION

Use of materials ancillary to the core making process including daub/mud, glue/paste, coating, core box release agent, and metal cleaners.

Flexible Group ID: NA

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Monitoring / Testing Method	Underlying Applicable Requirements
1. VOC	16.1 tpy	12-month rolling time period as determined at the end of each calendar month	EU_Misc	SC VI.4	R 336.1205, R 336.1702

II. MATERIAL LIMIT(S)

1. The VOC content of all mold/core coatings used in EU_Misc shall not exceed 5 percent by weight. **(R 336.1205(3), R 336.1702)**
2. The permittee shall not use more than 2,400 lbs of mold/core coatings per 12-month rolling time period in EU_Misc. **(R 336.1205)**
3. The permittee shall not use more than 34,400 lbs of VOC containing materials per 12-month rolling time period in EU_Misc. **(R 336.1205)**

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall handle all VOC and/or HAP containing materials, including coatings, reducers, solvents and thinners, in a manner to minimize the generation of fugitive emissions. The permittee shall keep containers covered at all times except when operator access is necessary. **(R 336.1205(3), R 336.1224, R 336.1225, R 336.1702(a))**

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

V. TESTING/SAMPLING

NA

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. **(R 336.1201(3))**

1. The permittee shall monitor and record, in a satisfactory manner, the VOC content of each material included in EU_Misc. A Material Safety Data Sheet or other manufacturer's certification acceptable to the District Supervisor is a satisfactory record. **(R 336.1205, R 336.1702)**

2. The permittee shall monitor and record, in a satisfactory manner, the usage rate in gallons on a monthly and 12-month rolling time period basis of each material for EU_Misc. **(R 336.1205, R 336.1224, R 336.1225, R 336.1702)**
3. The permittee shall monitor and record, in a satisfactory manner, the mold/core coatings and total VOC containing material usage rate in pounds on a monthly and 12-month rolling time period basis in EU_Misc. **(R 336.1205, R 336.1702)**
4. The permittee shall calculate and keep records of the VOC, emission rates from EU_Misc for each 12 month rolling time period using a method acceptable to the AQD District Supervisor. **(R 336.1205, R 336.1702)**

VII. REPORTING

NA

VIII. STACK/VENT RESTRICTION(S)

NA

IX. OTHER REQUIREMENT(S)

NA

**EU_SPMC
 EMISSION UNIT CONDITIONS**

DESCRIPTION

Semi-Permanent Mold Casting operations. Aluminum parts are cast and cooled utilizing steel molds and sand cores.

Flexible Group ID: NA

POLLUTION CONTROL EQUIPMENT

General ventilation only

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Monitoring / Testing Method	Underlying Applicable Requirements
1. PM	0.1 lb/1,000 lb exhaust gas	Hourly	EU_SPMC	SC V.1	R 336.1331
2. PM10	1.29 pph	Hourly	EU_SPMC	SC V.1	R 336.1331
3. PM10	4.34 tpy	12-month rolling time period as determined at the end of each calendar month	EU_SPMC	SC VI.2	R 336.1205, R 336.1224, R 336.1225
4. PM2.5	1.29 pph	Hourly	EU_SPMC	SC V.1	R 336.1224, R 336.1225
5. PM2.5	4.34 tpy	12-month rolling time period as determined at the end of each calendar month	EU_SPMC	SC VI.2	R 336.1205, R 336.1224, R 336.1225
6. VOC	6.21 pph	Hourly	EU_SPMC	SC V.1	R 336.1702
7. VOC	20.89 tpy	12-month rolling time period as determined at the end of each calendar month	EU_SPMC	SC VI.2	R 336.1702

II. MATERIAL LIMIT(S)

1. The permittee shall not pour more than 3.0 tons of aluminum per hour in EU_SPMC. **(R 336.1205, R 336.1224, R 336.1225, R 336.1702, 40 CFR 52.21(c) & (d))**
2. The permittee shall not pour more than 55.3 tons of aluminum per day in EU_SPMC. **(R 336.1205, R 336.1224, R 336.1225, R 336.1702, 40 CFR 52.21(c) & (d))**
3. The permittee shall not pour more than 20,184.50 tons of aluminum per rolling 12-month time period in EU_SPMC. **(R 336.1205, R 336.1224, R 336.1225, R 336.1702, 40 CFR 52.21(c) & (d))**

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall not operate EU_SPMC unless a malfunction abatement plan (MAP) as described in Rule 911(2), for the casting operations, has been submitted within 90 days of permit issuance, and is implemented and maintained. **(R 336.1225, R 336.1331, R 336.1702(a), R 336.1911, 40 CFR 52.21(c) & (d))**

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. **(R 336.1201(3))**

1. The permittee shall, upon request by the Department, verify and quantify PM, PM10, and PM2.5 emission rates from EU_SPMC, by testing at owner's expense, in accordance with Department requirements. Not less than 60 days prior to testing, a complete test plan shall be submitted to the AQD. The final plan must be approved by the AQD prior to testing. Verification of emission rates includes the submittal of a complete report of the test results to the AQD within 60 days following the last date of the test. **(R 336.1331, R 336.2001, R 336.2003, R 336.2004)**

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. **(R 336.1201(3))**

1. The permittee shall monitor and record, in a satisfactory manner, the aluminum pouring throughput in tons per hour, tons per day, tons per month, and tons per 12-month rolling time period for EU_SPMC. **(R 336.1205, R 336.1301, R 336.1331)**
2. The permittee shall calculate the PM10 and PM2.5, VOC, emission rates from EU_SPMC for each month and 12 month rolling time period using a method acceptable to the AQD District Supervisor. **(R 336.1205, R 336.1331)**

VII. REPORTING

NA

VIII. STACK/VENT RESTRICTION(S)

The exhaust gases from the stacks listed in the table below shall be discharged unobstructed vertically upwards to the ambient air unless otherwise noted:

Stack & Vent ID	Maximum Exhaust Diameter / Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SV-23VENTS (23 General Ventilation Stacks)	30	3 feet above roof (roof is 32 to 42 feet above ground)	R 336.1225, 40 CFR 52.21(c) & (d)

IX. OTHER REQUIREMENT(S)

NA

FLEXIBLE GROUP SPECIAL CONDITIONS

FLEXIBLE GROUP SUMMARY TABLE

The descriptions provided below are for informational purposes and do not constitute enforceable conditions.

Flexible Group ID	Flexible Group Description	Associated Emission Unit IDs
FG_Furn1,2	Aluminum melting furnaces (2)	EU_Furn1, EU_Furn2
FG_Holding	16 Electric Holding Furnaces, 16 Electric Crucible Furnaces and one Launder	NA

**FG_Furn1,2
 FLEXIBLE GROUP CONDITIONS**

DESCRIPTION

Aluminum melting furnaces (2)

Emission Unit: EU_Furn1, EU_Furn2

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Monitoring / Testing Method	Underlying Applicable Requirements
1. PM	0.2 lb/ton AL charged	Hourly	Each furnace in FG_Furn1,2	SC V.1	R 336.1331
2. PM	8.69 tpy	12-month rolling time period as determined at the end of each calendar month	FG_Furn1,2	SC VI.3	R 336.1331
3. PM10	0.2 lb/ton AL charged	Hourly	Each furnace in FG_Furn1,2	SC V.1	R 336.1205, 40 CFR 52.21(c) & (d)
4. PM10	8.69 tpy	12-month rolling time period as determined at the end of each calendar month	FG_Furn1,2	SC VI.3	R 336.1205, 40 CFR 52.21(c) & (d)
5. PM2.5	0.2 lb/ton AL charged	Hourly	Each furnace in FG_Furn1,2	SC V.1	R 336.1205, 40 CFR 52.21(c) & (d)
6. PM2.5	8.69 tpy	12-month rolling time period as determined at the end of each calendar month	FG_Furn1,2	SC VI.3	R 336.1205, 40 CFR 52.21(c) & (d)
7. NO _x	100 lb/MMCF	Hourly	Each furnace in FG_Furn1,2	SC V.1	R 336.1205
8. VOC	15.62 tpy	12-month rolling time period as determined at the end of each calendar month	FG_Furn1,2	SC VI.3	R 336.1702

II. MATERIAL LIMIT(S)

Material	Limit	Time Period / Operating Scenario	Equipment	Monitoring / Testing Method	Underlying Applicable Requirements
1. Total flux usage	610 lb/day	Daily	FG_Furn1,2	SC VI.1.	R 336.1224, R 336.1225
2. Clean charge to the furnace	238 tons/day	Daily	FG_Furn1,2	SC VI.1.	R 336.1224, R 336.1225

Material	Limit	Time Period / Operating Scenario	Equipment	Monitoring / Testing Method	Underlying Applicable Requirements
3. Clean charge to the furnace	86,870 tpy	12-month rolling time period as determined at the end of each calendar month	FG_Furn1,2	SC VI.1	R 336.1224, R 336.1225

4. Applicant shall melt only clean charge as defined in 40 CFR 63.1503, which includes uncoated/unpainted thermally dried aluminum chips and internal runaround (materials generated within the facility), in FG_Furn1,2. **(40 CFR 63.1500(d), 40 CFR 63.1503, R 336.1331)**
5. The clean charge to the furnaces and the flux usage rate for FG_Furn1,2 shall not exceed rates established during the stack test for all purpose cleaning flux or scrap material cleaning flux based on daily usage records. **(R 336.1225)**
6. The permittee shall burn only natural gas in FG_Furn1,2. **(R 336.1201(3), R 336.1205, R 336.1224, R 336.1225, R 336.1702, 40 CFR 52.21(c) & (d))**
7. Visible emissions from openings and vents in the upper half of the FG_Furn1,2 building portion of the facility shall not exceed a six-minute average of 0 percent opacity during operation. **(R 336.1301, R 336.1224, R 336.1225, 40 CFR 52.21(c) & (d))**

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall prepare and implement a written operation, maintenance, and monitoring (OM&M) plan for FG_FURN1,2. **(R 336.1205, R 336.1224, R 336.1225, R 336.1702, 40 CFR 52.21(c) & (d))**

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. **(R 336.1201(3))**

1. The permittee shall, upon request by the Department, verify and quantify PM, PM10, PM2.5, and NO_x emission rates from FG_Furn1,2, by testing at owner's expense, in accordance with Department requirements. No less than 60 days prior to testing, a complete test plan shall be submitted to the AQD. The final plan must be approved by the AQD prior to testing. Verification of emission rates includes the submittal of a complete report of the test results to the AQD within 60 days following the last date of the test. **(R 336.1331, R 336.2001, R 336.2003, R 336.2004)**

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. **(R 336.1201(3))**

1. The permittee shall record the types of material (clean charge as defined in 40 CFR 63.1503), charge rate, all purpose cleaning flux, scrap material cleaning flux, and wall cleaning flux usage rates for FG_Furn1,2 on a daily basis in a manner acceptable to the District Supervisor, Air Quality Division. This information shall be kept on file for a period of at least five years and made available to the Department upon request. **(R 336.1224, R 336.1225)**
2. The permittee shall perform a visible emissions observation for the vents and openings in the upper part of the building containing FG_Furn1,2 a minimum of once per week during charging. If the permittee observes any visible emissions, the permittee shall immediately initiate an investigation to determine the cause of the visible emissions and take prompt corrective action. The records will include the time of the emission observations, if visible emissions were observed, identification of the cause, the corrective action taken, and the time of completion of corrective action. **(R 336.1301, R 336.1224, R 336.1225)**

3. The permittee shall calculate the PM, PM10, PM2.5, and VOC, emission rates from FG_Furn1,2 for each month and 12 month rolling time period using a method acceptable to the AQD District Supervisor. (R 336.1205, R 336.1331, 40 CFR 52.21)

VII. REPORTING

NA

VIII. STACK/VENT RESTRICTION(S)

The exhaust gases from the stacks listed in the table below shall be discharged unobstructed vertically upwards to the ambient air unless otherwise noted:

Stack & Vent ID	Maximum Exhaust Diameter / Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SV_Furn1	48	59	40 CFR 52.21(c) & (d), R 336.1225
2. SV_Furn2	48	59	40 CFR 52.21(c) & (d), R 336.1225

IX. OTHER REQUIREMENT(S)

NA

FG_Holding
FLEXIBLE GROUP CONDITIONS

DESCRIPTION

16 Electric Holding Furnaces, 16 Electric Crucible Furnaces and one Launder

Emission Unit: NA

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

Material	Limit	Time Period / Operating Scenario	Equipment	Monitoring / Testing Method	Underlying Applicable Requirements
1. All-purpose cleaning flux	320 lbs/day ¹	monthly records	FG_Holding	SC VI.1	R 336.1225
2. Scrap material cleaning flux	0 lbs/day ¹	monthly records	FG_Holding	SC VI.1	R 336.1225
3. Wall cleaning flux	150 lbs/day ¹	monthly records	FG_Holding	SC VI.1	R 336.1225

III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

V. TESTING/SAMPLING

NA

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. **(R 336.1201(3))**

1. The permittee shall record the charge rate and the hours of operation, all purpose cleaning flux, scrap material cleaning flux, and wall cleaning flux usage rates, and the hours of operation for FG_Holding on a monthly basis and in a manner acceptable to the District Supervisor, Air Quality Division. This information shall be kept on file for a period of at least five years and made available to the Department upon request. **(R 336.1225, 40 CFR Part 63 Subpart RRR)**

VII. REPORTING

NA

VIII. STACK/VENT RESTRICTION(S)

NA

IX. OTHER REQUIREMENT(S)

NA

Footnotes:

¹ This condition is state only enforceable and was established pursuant to Rule 201(1)(b).

FGFACILITY CONDITIONS

DESCRIPTION

The following conditions apply source-wide to all process equipment including equipment covered by other permits, grand-fathered equipment, and exempt equipment.

POLLUTION CONTROL EQUIPMENT

Sand storage and handling particulate matter emission control is a fabric filter dust collection system. Dimethylisopropylamine (DMIPA) catalyst emission control is a B&P Model MC07 Packed Tower Scrubber. Chip Dryer Off-Gases will be controlled by the Reverberatory furnaces until it is controlled by a thermal oxidizer as specified in EU_Dryer SC IV.2

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Monitoring / Testing Method	Underlying Applicable Requirements
1. Each Individual HAP	Less than 9.0 tpy	12-month rolling time period as determined at the end of each calendar month	FGFACILITY	SC VI.1.	R 336.1205(3)
2. Aggregate HAPs	Less than 22.5 tpy	12-month rolling time period as determined at the end of each calendar month	FGFACILITY	SC VI.1.	R 336.1205(3)
3. VOC*	89.9 tpy	12-month rolling time period as determined at the end of each calendar month	FGFACILITY	SC VI.1.	R 336.1205(3)

*VOC emissions restricted by permit throughput limits in EU_CorePUCB, EU_Misc, EU_SPMC, and FG_Furn1,2. Permit exempt equipment was calculated at their maximum capacities which resulted in total facility-wide PTE of 87.64 tpy.

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

V. TESTING/SAMPLING

NA

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. **(R 336.1201(3))**

1. The permittee shall keep the following information for FGFACILITY:
 - a) Emission calculations for VOCs, Individual HAPs, and aggregate HAPs determining the monthly emission rate of each in tons per calendar month.
 - b) Emission calculations for VOCs, Individual HAPs, and aggregate HAPs determining the annual emission rate of each in tons per 12-month rolling time period as determined at the end of each calendar month. For the first month following permit issuance, the calculations shall include the summation of emissions from the 11-month period immediately preceding the issuance date. For each month thereafter, calculations shall include the summation of emissions for the appropriate number of months prior to permit issuance plus the months following permit issuance for a total of 12 consecutive months.
(R 336.1205(3))

VII. REPORTING

NA

VIII. STACK/VENT RESTRICTION(S)

NA

IX. OTHER REQUIREMENT(S)

NA

APPENDIX A

Monitoring and Compliance Requirements

Operation, Maintenance, and Monitoring (OM&M) Plan

The permittee shall prepare and implement a written operation, maintenance, and monitoring (OM&M) plan. The permittee shall submit the plan to the AQD District Supervisor for review and approval

The plan shall contain the following information:

- 1) Process and control device parameters to be monitored to determine compliance, along with established operating levels or ranges, as applicable, for EU_Furn1, EU_Furn2, EU_Furn3, and EU_Dryer.
- 2) A monitoring schedule for EU_Furn1, EU_Furn2, EU_Furn3, and EU_Dryer.
- 3) Procedures for the proper operation and maintenance of EU_Furn1, EU_Furn2, EU_Furn3, and EU_Dryer to meet the applicable emission limits or standards in 40 CFR § 63.1505 (c)(2); (i)(3) and (7); and (o)(1) and (2).
- 4) Procedures for the proper operation and maintenance of monitoring devices or systems used to determine compliance, including:
 - (i) Calibration and certification of accuracy of each monitoring device, at least once every 6 months, according to the manufacturer's instructions; and
 - (ii) Procedures for the quality control and quality assurance of continuous emission or opacity monitoring systems as required by the general provisions in 40 CFR Part 63 Subpart A.
- 5) Procedures for monitoring process and control device parameters, and if applicable, the procedure to be used for determining charge/feed (or throughput) weight if a measurement device is not used.
- 6) Corrective actions to be taken when process or operating parameters or add-on control device parameters deviate from the value or range established in paragraph (1) above, including:
 - (i) Procedures to determine and record the cause of a deviation or excursion, and the time the deviation or excursion began and ended; and
 - (ii) Procedures for recording the corrective action taken, the time corrective action was initiated, and the time/date corrective action was completed.
- 7) A maintenance schedule for EU_Furn1, EU_Furn2, EU_Furn3, and EU_Dryer that is consistent with the manufacturer's instructions and recommendations for routine and long-term maintenance.
- 8) The identification of each emission unit.
- 9) The specific control technology or pollution prevention measure to be used for each emission unit and the date of its installation or application.
- 10) The emission limit calculated for each emission unit and performance test results with supporting calculations demonstrating initial compliance with each applicable emission limit.
- 11) Information and data demonstrating compliance for each emission unit with all applicable design, equipment, work practice or operational standards of 40 CFR Part 63 Subpart RRR
- 12) The monitoring requirements applicable to each emission unit and the monitoring procedures for daily calculation of the 3-day, 24-hour rolling average using the procedure in (13) below.
- 13) Except as provided in (14) below, the permittee shall calculate and record the 3-day, 24-hour rolling average emissions of D/F for the secondary aluminum processing facility on a daily basis. (Note: the facility can be evaluated as a Secondary Aluminum Processing Unit as defined in Subpart RRR). To calculate the 3-day, 24-hour rolling average, the permittee shall:
 - (i) Calculate and record the total weight of material charged to each emission unit in the secondary aluminum processing facility for each 24-hour day of operation using the feed/charge weight information required below (page 3). If the permittee chooses to comply on the basis of weight of aluminum produced by the emission unit, rather than weight of material charged to the emission unit, all performance test emissions results and all calculations must be conducted on the aluminum production weight basis.
 - (ii) Multiply the total feed/charge weight to the emission unit, or the weight of aluminum produced by the emission unit, for each emission unit for the 24-hour period by the emission rate (in lb/ton of feed/charge) for that emission unit (as determined during the performance test) to provide emissions for each emission unit for the 24-hour period, in pounds.
 - (iii) Divide the total emissions for the facility for the 24-hour period by the total material charged to the facility, or the weight of aluminum produced by the facility over the 24-hour period to provide the daily emission rate for the facility.

(iv) Compute the 24-hour daily emission rate using Equation 4 of 40 CFR Part 63 Subpart RRR.:

$$E_{\text{day}} = \frac{\sum_{i=1}^n (T_i \times ER_i)}{\sum_{i=1}^n T_i} \quad (\text{Eq. 4})$$

Where,

E_{day} = The daily D/F emission rate for the facility for the 24-hour period;

T_i = The total amount of feed, or aluminum produced, for emission unit i for the 24-hour period (tons);

ER_i = The measured emission rate for emission unit i as determined in the performance test and

n = The number of emission units in the facility.

(v) Calculate and record the 3-day, 24-hour rolling average for each pollutant each day by summing the daily emission rates for each pollutant over the 3 most recent consecutive days and dividing by 3.

14) Facility compliance by individual emission unit demonstration.

As an alternative to the procedures of paragraph (13) of this section, the permittee may demonstrate, through performance tests, that each individual emission unit within the facility is in compliance with the applicable emission limits for the emission unit.

15) The facility compliance procedures within the OM&M plan may not contain any of the following provisions:

(i) Any averaging among emissions of differing pollutants;

(ii) The inclusion of any affected sources other than emission units in a secondary aluminum processing unit;

(iii) The inclusion of any emission unit while it is shutdown; or

(iv) The inclusion of any periods of startup, shutdown, or malfunction in emission calculations.

Capture/collection system.

The permittee shall:

1) Install, operate, and maintain a capture/collection system for EU_Dryer; and

2) Inspect the capture/collection and closed vent system at least once each calendar year to ensure that the system is operating in accordance with the operating requirements in 40 CFR § 63.1506(c) and record the results of each inspection.

Feed/charge weight.

The permittee shall install, calibrate, operate, and maintain a device to measure and record the total weight of feed/charge to, or the aluminum production from EU_Furn1, EU_Furn2, EU_Furn3, and EU_Dryer, over the same operating cycle or time period used in the performance test. Feed/charge or aluminum production shall be measured and recorded on an emission unit-by-emission unit basis.

As an alternative to a measurement device, the permittee may use a procedure acceptable to the AQD District Supervisor to determine the total weight of feed/charge or aluminum production to the affected source or emission unit.

1) The accuracy of the weight measurement device or procedure shall be ±1 percent of the weight being measured. The permittee may apply to the AQD District Supervisor for approval to use a device of alternative accuracy if the required accuracy cannot be achieved as a result of equipment layout or charging practices. A device of alternative accuracy will not be approved unless the permittee provides assurance through data and information that the affected source will meet the relevant emission standard.

2) The permittee shall verify the calibration of the weight measurement device in accordance with the schedule specified by the manufacturer, or if no calibration schedule is specified, at least once every 6 months.

Thermal chip dryer.

The permittee of a thermal chip dryer with emissions controlled by an afterburner shall:

- 1) Maintain the 3-hour block average operating temperature of each afterburner at or above the average temperature established during the performance test.
- 2) Operate each afterburner in accordance with the OM&M plan.
- 3) Operate each thermal chip dryer using only unpainted aluminum chips as the feedstock.

Afterburner.

These requirements apply to the permittee of an affected source using an afterburner to comply with the requirements of 40 CFR Part 63 Subpart RRR.

- 1) The permittee shall install, calibrate, maintain, and operate a device to continuously monitor and record the operating temperature of the afterburner consistent with the requirements for continuous monitoring systems in subpart A of 40 CFR Part 63.
- 2) The temperature monitoring device must meet each of these performance and equipment specifications:
 - (i) The temperature monitoring device must be installed at the exit of the combustion zone of each afterburner.
 - (ii) The monitoring system must record the temperature in 15-minute block averages and determine and record the average temperature for each 3-hour block period.
 - (iii) The recorder response range must include zero and 1.5 times the average temperature established according to the requirements in § 63.1512(m).
 - (iv) The reference method must be a National Institute of Standards and Technology calibrated reference thermocouple-potentiometer system or alternate reference, subject to approval by the Administrator.
- 3) The permittee shall conduct an inspection of each afterburner at least once a year and record the results. At a minimum, an inspection must include:
 - (i) Inspection of all burners, pilot assemblies, and pilot sensing devices for proper operation and clean pilot sensor;
 - (ii) Inspection for proper adjustment of combustion air;
 - (iii) Inspection of internal structures (e.g., baffles) to ensure structural integrity;
 - (iv) Inspection of dampers, fans, and blowers for proper operation;
 - (v) Inspection for proper sealing;
 - (vi) Inspection of motors for proper operation;
 - (vii) Inspection of combustion chamber refractory lining and clean and replace lining as necessary;
 - (viii) Inspection of afterburner shell for corrosion and/or hot spots;
 - (ix) Documentation, for the burn cycle that follows the inspection, that the afterburner is operating properly, and any necessary adjustments have been made; and
 - (x) Verification that the equipment is maintained in good operating condition.
 - (xi) Following an equipment inspection, all necessary repairs must be completed in accordance with the requirements of the OM&M plan.

Total reactive flux injection rate.

The permittee shall:

- 1) Install, calibrate, operate, and maintain a device to continuously measure and record the weight of gaseous or liquid reactive flux injected to EU_Furn1, EU_Furn2 and EU_Furn3.
 - (i) The monitoring system must record the weight for each 15-minute block period, during which reactive fluxing occurs, over the same operating cycle or time period used in the performance test.
 - (ii) The accuracy of the weight measurement device must be ± 1 percent of the weight of the reactive component of the flux being measured. The permittee may apply to the AQD District Supervisor for permission to use a weight measurement device of alternative accuracy in cases where the reactive flux flow rates are so low as to make the use of a weight measurement device of ± 1 percent impracticable. A device of alternative accuracy will not be approved unless the permittee provides assurance through data and information that the affected source will meet the relevant emission standards.
 - (iii) The permittee shall verify the calibration of the weight measurement device in accordance with the schedule specified by the manufacturer, or if no calibration schedule is specified, at least once every 6 months.

- 2) Calculate and record the gaseous or liquid reactive flux injection rate (kg/Mg or lb/ton) for each operating cycle or time period used in the performance test using the procedure in 40 CFR § 63.1512(o).
- 3) Record, for each 15-minute block period during each operating cycle or time period used in the performance test during which reactive fluxing occurs, the time, weight, and type of flux for each addition of:
 - (i) Gaseous or liquid reactive flux other than chlorine; and
 - (ii) Solid reactive flux.
- 4) Calculate and record the total reactive flux injection rate for each operating cycle or time period used in the performance test using the procedure in 40 CFR § 63.1512(o).
- 5) The permittee may apply to the U.S. EPA Administrator for approval of an alternative method for monitoring and recording the total reactive flux addition rate based on monitoring the weight or quantity of reactive flux per ton of feed/charge for each operating cycle or time period used in the performance test. An alternative monitoring method will not be approved unless the permittee provides assurance through data and information that the affected source will meet the relevant emission standards on a continuous basis.

Group 1 furnace without add-on air pollution control devices.

These requirements apply to the permittee of a group 1 furnace that is not equipped with an add-on air pollution control device.

- 1) The permittee shall develop, in consultation with the responsible permitting authority, a written site-specific monitoring plan. The site-specific monitoring plan must be submitted to the permitting authority as part of the OM&M plan. The site-specific monitoring plan must contain sufficient procedures to ensure continuing compliance with all applicable emission limits and must demonstrate, based on documented test results, the relationship between emissions of PM, HCl, and D/F and the proposed monitoring parameters for each pollutant. Test data must establish the highest level of PM, HCl, and D/F that will be emitted from the furnace. This may be determined by conducting performance tests and monitoring operating parameters while charging the furnace with feed/charge materials containing the highest anticipated levels of oils and coatings and fluxing at the highest anticipated rate. If the permitting authority determines that any revisions of the site-specific monitoring plan are necessary to meet the requirements of this section or subpart RRR, the permittee shall promptly make all necessary revisions and resubmit the revised plan to the permitting authority.
 - (i) The permittee of an existing affected source shall submit the site-specific monitoring plan to the applicable permitting authority for review at least 6 months prior to the compliance date.
 - (ii) The permitting authority will review and approve or disapprove a proposed plan, or request changes to a plan, based on whether the plan contains sufficient provisions to ensure continuing compliance with applicable emission limits and demonstrates, based on documented test results, the relationship between emissions of PM, HCl, and D/F and the proposed monitoring parameters for each pollutant. Test data must establish the highest level of PM, HCl, and D/F that will be emitted from the furnace. Subject to permitting agency approval of the OM&M plan, this may be determined by conducting performance tests and monitoring operating parameters while charging the furnace with feed/charge materials containing the highest anticipated levels of oils and coatings and fluxing at the highest anticipated rate.
- 2) Each site-specific monitoring plan must document each work practice, equipment/design practice, pollution prevention practice, or other measure used to meet the applicable emission standards.
- 3) Each site-specific monitoring plan must include provisions for unit labeling as required in paragraph (c) of this section, feed/charge weight measurement (or production weight measurement) as required in paragraph (e) of this section and flux weight measurement as required in paragraph (j) of this section.
- 4) Each site-specific monitoring plan for a melting/holding furnace subject to the clean charge emission standard in § 63.1505(i)(3) must include these requirements:
 - (i) The permittee shall record the type of feed/ charge (e.g., ingot, thermally dried chips, dried scrap, etc.) for each operating cycle or time period used in the performance test; and
 - (ii) The permittee shall submit a certification of compliance with the applicable operational standard for clean charge materials in § 63.1506(n)(3) for each 6-month reporting period. Each certification must contain the information in § 63.1516(b)(2)(iv).

- 5) If a continuous emission monitoring system is included in a site-specific monitoring plan, the plan must include provisions for the installation, operation, and maintenance of the system to provide quality-assured measurements in accordance with all applicable requirements of the general provisions in subpart A of part 63.
- 6) If a continuous opacity monitoring system is included in a site-specific monitoring plan, the plan must include provisions for the installation, operation, and maintenance of the system to provide quality-assured measurements in accordance with all applicable requirements of subpart RRR.
- 7) If a site-specific monitoring plan includes a scrap inspection program for monitoring the scrap contaminant level of furnace feed/charge materials, the plan must include provisions for the demonstration and implementation of the program in accordance with all applicable requirements in paragraph (p) of this section.
- 8) If a site-specific monitoring plan includes a calculation method for monitoring the scrap contaminant level of furnace feed/charge materials, the plan must include provisions for the demonstration and implementation of the program in accordance with all applicable requirements in paragraph (q) of this section.

Performance test/compliance demonstration

40 CFR § 63.1511 Performance test/compliance demonstration general requirements.

Site-specific test plan.

Prior to conducting a performance test required by this subpart, the permittee shall prepare and submit a site-specific test plan meeting the requirements in 40 CFR § 63.7(c) Quality Assurance Program.

Initial performance test.

Following approval of the site-specific test plan, the permittee shall demonstrate initial compliance with each applicable emission, equipment, work practice, or operational standard for each affected source and emission unit and report the results in the notification of compliance status report as described in 40 CFR § 63.1515(b). The permittee shall conduct each performance test according to the requirements of the general provisions in 40 CFR Part 63 subpart A and subpart RRR.

- 1) The permittee shall conduct each test while the affected source or emission unit is operating at the highest production level with charge materials representative of the range of materials processed by the unit and, if applicable, at the highest reactive fluxing rate.
- 2) Each performance test for a continuous process must consist of 3 separate runs; pollutant sampling for each run must be conducted for the time period specified in the applicable method or, in the absence of a specific time period in the test method, for a minimum of 3 hours.
- 3) Each performance test for a batch process must consist of three separate runs; pollutant sampling for each run must be conducted over the entire process operating cycle.
- 4) Where multiple affected sources or emission units are exhausted through a common stack, pollutant sampling for each run must be conducted over a period of time during which all affected sources or emission units complete at least 1 entire process operating cycle or for 24 hours, whichever is shorter.
- 5) Initial compliance with an applicable emission limit or standard is demonstrated if the average of three runs conducted during the performance test is less than or equal to the applicable emission limit or standard.

Test methods.

The permittee shall use the following method in appendix A to 40 CFR part 60 to determine compliance with the applicable emission limit:

- 1) Method 23 for the concentration of D/F.

Establishment of monitoring and operating parameter values.

The permittee shall establish a minimum or maximum operating parameter value, or an operating parameter range for each parameter to be monitored as required by 40 CFR § 63.1510 that ensures compliance with the applicable emission limit or standard. To establish the minimum or maximum value or range, the permittee shall use the appropriate procedures in this section and submit the information required by 40 CFR § 63.1515(b)(4) in the notification of compliance status report. The permittee may use existing data in addition to the results of

performance tests to establish operating parameter values for compliance monitoring provided each of the following conditions are met to the satisfaction of the AQD District Supervisor:

- 1) The complete emission test report(s) used as the basis of the parameter(s) is submitted.
- 2) The same test methods and procedures as required by this subpart were used in the test.
- 3) The permittee certifies that no design or work practice changes have been made to the source, process, or emission control equipment since the time of the report.
- 4) All process and control equipment operating parameters required to be monitored were monitored as required in this subpart and documented in the test report.

§ 63.1512 Performance test/compliance demonstration requirements and procedures.

EU_Dryer

Thermal chip dryer. The permittee shall conduct a performance test to measure D/F emissions at the outlet of the control device while the unit processes only unpainted aluminum chips.

FG_Holding

There are no requirements in 40 CFR 63.1512 applicable to Group2 furnaces.

Potential requirements for EU_Furn1, EU_Furn2, and EU_Furn3 if becomes subject to Subpart RRR

Group 1 furnace (including melting holding furnaces) without add-on air pollution control devices. In the site-specific monitoring plan required by § 63.1510(o), the permittee of a group 1 furnace at a secondary aluminum production facility that is a major or area source (including a melting/holding furnaces) without add-on air pollution control devices must include data and information demonstrating compliance with the applicable emission limits.

- 1) If the group 1 furnace processes other than clean charge material, the permittee shall conduct emission tests to measure emissions of D/F at the furnace exhaust outlet.
- 2) If the group 1 furnace processes only clean charge, a D/F test is not required. Each test must be conducted while the group 1 furnace (including a melting/holding furnace) processes only clean charge.

Feed/charge weight measurement.

During the emission test(s) conducted to determine compliance with emission limits in a kg/Mg (lb/ton) format, the permittee shall measure (or otherwise determine) and record the total weight of feed/charge to EU_Furn1, EU_Furn2, EU_Furn3, or EU_Dryer for each of the three test runs and calculate and record the total weight. A permittee that chooses to demonstrate compliance on the basis of the aluminum production weight shall measure the weight of aluminum produced by EU_Furn1, EU_Furn2, or EU_Furn3 instead of the feed/charge weight.

Flux injection rate.

The permittee shall use these procedures to establish an operating parameter value or range for the total reactive chlorine flux injection rate.

- 1) Continuously measure and record the weight of gaseous or liquid reactive flux injected for each 15 minute period during the D/F tests, determine and record the 15-minute block average weights, and calculate and record the total weight of the gaseous or liquid reactive flux for the 3 test runs;
- 2) Record the identity, composition, and total weight of each addition of solid reactive flux for the 3 test runs;
- 3) Determine the total reactive chlorine flux injection rate by adding the recorded measurement of the total weight of chlorine in the gaseous or liquid reactive flux injected and the total weight of chlorine in the solid reactive flux using Equation 5 of 40 CFR Part 63 Subpart RRR:

$$W_t = F_1W_1 + F_2W_2 \quad (\text{Eq. 5})$$

Where,

W_t = Total chlorine usage, by weight;

F_1 = Fraction of gaseous or liquid flux that is chlorine;

W_1 = Weight of reactive flux gas injected;

F_2 = Fraction of solid reactive chloride flux that is chlorine (e.g., $F = 0.75$ for magnesium chloride; and

W_2 = Weight of solid reactive flux;

- (4) Divide the weight of total chlorine usage (W_t) for the 3 test runs by the recorded measurement of the total weight of feed for the 3 test runs; and
- (5) If a solid reactive flux other than magnesium chloride is used, the permittee shall derive the appropriate proportion factor subject to approval by the AQD District Supervisor.

Labeling.

The permittee shall submit the information described in 40 CFR § 63.1515(b)(3) as part of the notification of compliance status report to document conformance with the operational standard in 40 CFR § 63.1506(b). The labels shall identify each emission unit as a group 1 furnace or group 2 furnace and shall include the applicable operational standards and control methods, including (but not limited to) the type of charge to be used in the furnace, flux materials and addition practices, and the applicable operating parameter ranges and requirements as incorporated in the OM&M Plan.

Capture/collection system.

The permittee of EU_Dryer with an add-on control device shall submit the information described in 40 CFR § 63.1515(b) as part of the notification of compliance status report to document conformance with the operational standard in 40 CFR § 63.1506(c) (capture/collection and closed vent system operated per the OM&M Plan).

Calculations

§ 63.1513 Equations for determining compliance.

D/F emission limits.

Use Equation 7 of 40 CFR Part 63 Subpart RRR to determine compliance with an emission limit for D/F:

$$E = \frac{C \times Q \times K_1}{P} \quad (\text{Eq. 7})$$

Where,

- E = Emission rate of D/F, kg/Mg (lb/ton) of feed;
- C = Concentration of D/F, g/dscm (gr/dscf);
- Q = Volumetric flow rate of exhaust gases, dscm/hr (dscf/hr);
- K1 = Conversion factor, 1 kg/1,000 g (1 lb/7,000 gr); and
- P = Production rate, Mg/hr (ton/hr).

Conversion of D/F measurements to TEQ units.

To convert D/F measurements to TEQ units, the permittee shall use the procedures and equations in "Interim Procedures for Estimating Risks Associated with Exposures to Mixtures of Chlorinated Dibenzo-p-Dioxins and -Dibenzofurans (CDDs and CDFs) and 1989 Update" (EPA-625/3-89-016), incorporated by reference in § 63.1502 of this subpart, available from the National Technical Information Service (NTIS), 5285 Port Royal Road, Springfield, Virginia, NTIS no. PB 90-145756.

Facility (Secondary Aluminum Processing Unit in Subpart RRR)

Use the procedures in paragraph (1) or the procedure in paragraph (2) of this section to determine compliance with emission limits for a secondary aluminum processing unit. (Note: the facility can be evaluated as a Secondary Aluminum Processing Unit as defined in Subpart RRR).

- 1) Use Equation 11 of 40 CFR Part 63 Subpart RRR to compute the aluminum mass-weighted D/F emissions for the secondary aluminum processing unit. Compliance is achieved if the mass-weighted emissions for the secondary aluminum processing unit is less than or equal to the emission limit for the secondary aluminum processing unit ($L_{CD/F}$) calculated using Equation 3 in 40 CFR § 63.1505(k).

$$E_{cD/F} = \frac{\sum_{i=1}^n (E_{iD/F} \times T_{ti})}{\sum_{i=1}^n T_{ti}} \quad (\text{Eq. 11})$$

Where,

$E_{cD/F}$ = The mass-weighted D/F emissions for the secondary aluminum processing unit; and

$E_{iD/F}$ = Measured D/F emissions for individual emission unit i.

$$L_{cD/F} = \frac{\sum_{i=1}^n (L_{tiD/F} \times T_{ti})}{\sum_{i=1}^n T_{ti}} \quad (\text{Eq. 3})$$

Where,

$L_{cD/F}$ = The D/F emission limit for individual emission unit I in 40 CFR 63.1505(i)(3) for EU-RV3MELT, EU-RF1, or EU-RF2 and

$L_{tiD/F}$ = The D/F emission limit for the secondary aluminum processing unit (facility).

- 2) As an alternative to using the equations in paragraph (1) of this section, the permittee may demonstrate compliance for a secondary aluminum processing unit by demonstrating that each existing group 1 furnace EU_Furn1 and EU_Furn2, and EU_Furn3 is in compliance with the emission limits for a new group 1 furnace in 40 CFR § 63.1505(i).

Notifications, Reports, And Records

§ 63.1515 Notifications.

Initial notifications.

The permit to install application was sufficient to meet the initial notification requirements

Notification of compliance status report.

The permittee shall submit a notification of compliance status report within 60 days after permit issuance. The notification must be signed by the responsible official who must certify its accuracy. A complete notification of compliance status report shall include the information specified in paragraphs (1) through (7) of this section. If the permittee submits the information specified in this section at different times or in different submittals, later submittals may refer to earlier submittals instead of duplicating and resubmitting the information previously submitted. A complete notification of compliance status report shall include:

- 1) All information required in 40 CFR § 63.9(h). The permittee shall provide a complete performance test report for each affected source and emission unit for which a performance test is required. A complete performance test report includes all data, associated measurements, and calculations (including visible emission and opacity tests).
- 2) The approved site-specific test plan and performance evaluation test results for each continuous monitoring system (including a continuous emission or opacity monitoring system).
- 3) Unit labeling as described in 40 CFR § 63.1506(b), including process type or furnace classification and operating requirements.
- 4) The compliant operating parameter value or range established for each affected source or emission unit with supporting documentation and a description of the procedure used to establish the value (e.g., lime injection rate, total reactive chlorine flux injection rate, fabric filter inlet temperature), including the operating cycle or time period used in the performance test.

- 5) Design information and analysis, with supporting documentation, demonstrating conformance with the requirements for capture/collection systems in 40 CFR § 63.1506(c).
- 6) If applicable, analysis and supporting documentation demonstrating conformance with EPA guidance and specifications for bag leak detection systems in 40 CFR § 63.1510(f).
- 7) Startup, shutdown, and malfunction plan, with revisions.

§ 63.1516 Reports.

Startup, shutdown, and malfunction plan/reports.

The permittee shall develop and implement a written plan as described in 40 CFR § 63.6(e)(3) that contains specific procedures to be followed for operating and maintaining the source during periods of startup, shutdown, and malfunction, and a program of corrective action for malfunctioning process and air pollution control equipment used to comply with the standard. The permittee shall also keep records of each event as required by 40 CFR § 63.10(b) and record and report if an action taken during a startup, shutdown, or malfunction is not consistent with the procedures in the plan as described in 40 CFR § 63.6(e)(3). In addition to the information required in 40 CFR § 63.6(e)(3), the plan shall include:

- 1) Procedures to determine and record the cause of the malfunction and the time the malfunction began and ended; and
- 2) Corrective actions to be taken in the event of a malfunction of a process or control device, including procedures for recording the actions taken to correct the malfunction or minimize emissions.

Excess emissions/summary report.

As required by 40 CFR § 63.10(e)(3), the permittee shall submit semiannual reports within 60 days after the end of each 6-month period. Each report shall contain the information specified in 40 CFR § 63.10(c). When no deviations of parameters have occurred, the permittee shall submit a report stating that no excess emissions occurred during the reporting period.

- 1) A report shall be submitted if any of these conditions occur during a 6-month reporting period:
 - (i) The corrective action specified in the OM&M plan for a bag leak detection system alarm was not initiated within 1 hour.
 - (ii) The corrective action specified in the OM&M plan for a continuous opacity monitoring deviation was not initiated within 1 hour.
 - (iii) The corrective action specified in the OM&M plan for visible emissions from an aluminum scrap shredder was not initiated within 1 hour.
 - (iv) An excursion of a compliant process or operating parameter value or range (e.g., lime injection rate or screw feeder setting, total reactive chlorine flux injection rate, afterburner operating temperature, fabric filter inlet temperature, definition of acceptable scrap, or other approved operating parameter).
 - (v) An action taken during a startup, shutdown, or malfunction was not consistent with the procedures in the plan as described in 40 CFR § 63.6(e)(3).
 - (vi) An affected source (including an emission unit in a secondary aluminum processing unit) was not operated according to the requirements of this subpart.
 - (vii) A deviation from the 3-day, 24-hour rolling average emission limit for a secondary aluminum processing unit.
- 2) Each report shall include each of these certifications, as applicable:
 - (i) For each sidewall group 1 furnace with add-on air pollution control devices: "Each furnace was operated such that the level of molten metal remained above the top of the passage between the sidewall and hearth during reactive fluxing, and reactive flux, except for cover flux, was added only to the sidewall or to a furnace hearth equipped with an add-on air pollution control device for D/F emissions during this reporting period."
- 3) The permittee shall submit the results of any performance test conducted during the reporting period, including one complete report documenting test methods and procedures, process operation, and monitoring parameter ranges or values for each test method used for a particular type of emission point tested.

Annual compliance certifications.

For the purpose of annual certifications of compliance required by 40 CFR part 70 or 71, the permittee shall certify continuing compliance based upon, but not limited to, the following conditions:

- 1) Any period of excess emissions, as defined in paragraph (1) of the previous section of this appendix (**Excess emissions/summary report**), that occurred during the year were reported as required by this subpart; and
- 2) All monitoring, recordkeeping, and reporting requirements were met during the year.

§ 63.1517 Records

- a) As required by 40 CFR § 63.10(b), the permittee shall maintain files of all information (including all reports and notifications) required by the general provisions and this subpart.
 - 1) The permittee shall retain each record for at least 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. The most recent 2 years of records must be retained at the facility. The remaining 3 years of records may be retained off site.
 - 2) The permittee may retain records on microfilm, computer disks, magnetic tape, or microfiche; and
 - 3) The permittee may report required information on paper or on a labeled computer disk using commonly available and EPA-compatible computer software.
- b) In addition to the general records required by 40 CFR § 63.10(b), the permittee of a new or existing affected source (including an emission unit in a secondary aluminum processing unit) shall maintain records of:
 - 1) For EU_Furn1 and EU_Furn2, and EU_Furn3 records of 15-minute block average weights of gaseous or liquid reactive flux injection, total reactive flux injection rate and calculations (including records of the identity, composition, and weight of each addition of gaseous, liquid or solid reactive flux), including records of any period the rate exceeds the compliant operating parameter value and corrective action taken.
 - 2) For each affected source and emission unit subject to an emission standard in kg/Mg (lb/ton) of feed/charge, records of feed/charge (or throughput) weights for each operating cycle or time period used in the performance test.
 - 3) Records of monthly inspections for proper unit labeling for each affected source and emission unit subject to labeling requirements.
 - 4) Records of annual inspections of emission capture/collection and closed vent systems.
 - 5) Records for any approved alternative monitoring or test procedure.
 - 6) Current copy of all required plans, including any revisions, with records documenting conformance with the applicable plan, including:
 - (i) Startup, shutdown, and malfunction plan;
 - (ii) For major sources, OM&M plan; and
 - (iii) Site-specific secondary aluminum processing unit emission plan (if applicable).
 - 7) For each secondary aluminum processing unit, records of total charge weight, or if the permittee chooses to comply on the basis of aluminum production, total aluminum produced for each 24-hour period and calculations of 3-day, 24-hour rolling average emissions.

Other

§ 63.1518 Applicability of general provisions.

The requirements of the general provisions in 40 CFR Part 63 subpart A that are applicable to the permittee subject to the requirements of this subpart are shown in appendix A to 40 CFR Part 63 subpart RRR.