

**MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY  
AIR QUALITY DIVISION**

January 11, 2019

**PERMIT TO INSTALL**  
192-10A

**ISSUED TO**  
Oerlikon Metco (US) Inc.

**LOCATED AT**  
1972 Meijer Drive  
Troy, Michigan

**IN THE COUNTY OF**  
Oakland

**STATE REGISTRATION NUMBER**  
N2785

The Air Quality Division has approved this Permit to Install, pursuant to the delegation of authority from the Michigan Department of Environmental Quality. 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: <b>January 9, 2019</b>	
DATE PERMIT TO INSTALL APPROVED: <b>January 11, 2019</b>	SIGNATURE:
DATE PERMIT VOIDED:	SIGNATURE:
DATE PERMIT REVOKED:	SIGNATURE:

**PERMIT TO INSTALL**

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**Common Abbreviations / Acronyms**

<b>Common Acronyms</b>		<b>Pollutant / Measurement Abbreviations</b>	
AQD	Air Quality Division	acfm	Actual cubic feet per minute
BACT	Best Available Control Technology	BTU	British Thermal Unit
CAA	Clean Air Act	°C	Degrees Celsius
CAM	Compliance Assurance Monitoring	CO	Carbon Monoxide
CEM	Continuous Emission Monitoring	CO <sub>2e</sub>	Carbon Dioxide Equivalent
CFR	Code of Federal Regulations	dscf	Dry standard cubic foot
COM	Continuous Opacity Monitoring	dscm	Dry standard cubic meter
Department/ department	Michigan Department of Environmental Quality	°F	Degrees Fahrenheit
EU	Emission Unit	gr	Grains
FG	Flexible Group	HAP	Hazardous Air Pollutant
GACS	Gallons of Applied Coating Solids	Hg	Mercury
GC	General Condition	hr	Hour
GHGs	Greenhouse Gases	HP	Horsepower
HVLP	High Volume Low Pressure*	H <sub>2</sub> S	Hydrogen Sulfide
ID	Identification	kW	Kilowatt
IRSL	Initial Risk Screening Level	lb	Pound
ITSL	Initial Threshold Screening Level	m	Meter
LAER	Lowest Achievable Emission Rate	mg	Milligram
MACT	Maximum Achievable Control Technology	mm	Millimeter
MAERS	Michigan Air Emissions Reporting System	MM	Million
MAP	Malfunction Abatement Plan	MW	Megawatts
MDEQ	Michigan Department of Environmental Quality	NMOC	Non-methane Organic Compounds
MSDS	Material Safety Data Sheet	NO <sub>x</sub>	Oxides of Nitrogen
NA	Not Applicable	ng	Nanogram
NAAQS	National Ambient Air Quality Standards	PM	Particulate Matter
NESHAP	National Emission Standard for Hazardous Air Pollutants	PM10	Particulate Matter equal to or less than 10 microns in diameter
NSPS	New Source Performance Standards	PM2.5	Particulate Matter equal to or less than 2.5 microns in diameter
NSR	New Source Review	pph	Pounds per hour
PS	Performance Specification	ppm	Parts per million
PSD	Prevention of Significant Deterioration	ppmv	Parts per million by volume
PTE	Permanent Total Enclosure	ppmw	Parts per million by weight
PTI	Permit to Install	psia	Pounds per square inch absolute
RACT	Reasonable Available Control Technology	psig	Pounds per square inch gauge
ROP	Renewable Operating Permit	scf	Standard cubic feet
SC	Special Condition	sec	Seconds
SCR	Selective Catalytic Reduction	SO <sub>2</sub>	Sulfur Dioxide
SNCR	Selective Non-Catalytic Reduction	TAC	Toxic Air Contaminant
SRN	State Registration Number	Temp	Temperature
TEQ	Toxicity Equivalence Quotient	THC	Total Hydrocarbons
USEPA/EPA	United States Environmental Protection Agency	tpy	Tons per year
VE	Visible Emissions	µg	Microgram
		µm	Micrometer or Micron
		VOC	Volatile Organic Compounds
		yr	Year

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

### 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 Environmental Quality, 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 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 R 336.1219 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 R 336.1219 and shall be sent to the District Supervisor, Air Quality Division, Michigan Department of Environmental Quality. **(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 conditions 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 R 336.1301, 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 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 R 336.1370(2). **(R 336.1370)**
  
13. The Department may require the permittee to conduct acceptable performance tests, at the permittee's expense, in accordance with R 336.2001 and R 336.2003, under any of the conditions listed in R 336.2001. **(R 336.2001)**

**SPECIAL CONDITIONS**

**EMISSION UNIT SUMMARY TABLE**

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

<b>Emission Unit ID</b>	<b>Emission Unit Description (Process Equipment &amp; Control Devices)</b>	<b>Flexible Group ID</b>
EU-CLADDING	Consists of an existing clad-composite powder production line including up to two 200-gallon steam-jacketed mixing bowls and the clad-composite screening operations. Particulate emission control for mixing bowl loading, mixing, and heating and particulate control for screening operations is provided by the existing 6,000 cfm AAF cartridge filter dust collector system (Exhaust Stack: SV7-CLADDING).	NA
EU-N2-ATOMIZ-C, EU-N2-ATOMIZ-F, EU-N2-ATOMIZ-G, EU-N2-ATOMIZ-4	Alloy metal powder is formed by means of nitrogen gas atomization of molten metal. Molten metal is fed to the four existing atomizing chambers (C, F, G, and 4) to form metal powder. Particulate emission control for the N2 atomizing chambers is provided by the common 27,000 cfm dust collector system (Exhaust Stack: SV10-ATOM-SCREEN).	FG-ATOM-SCREEN
EU-SCREEN-PACK	Includes product screening, packaging, blending/mixing and material handling operations common to the non-cladding operations. Common particulate emission control for these sources is provided by the 27,000 cfm dust collector system (Exhaust Stack: SV10-ATOM-SCREEN).	FG-ATOM-SCREEN
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 336.1290.		

**The following conditions apply to:**  
**EU-CLADDING**

**DESCRIPTION:** Consists of an existing clad-composite powder production line including up to two 200-gallon steam-jacketed mixing bowls and the clad-composite screening operations. Particulate emission control for mixing bowl loading, mixing, and heating and particulate control for screening operations is provided by the existing 6,000 cfm AAF cartridge filter dust collector system (Exhaust Stack: SV7-CLADDING).

**Flexible Group ID:** NA

**POLLUTION CONTROL EQUIPMENT:** Particulate emission control for mixing bowl loading, mixing, and heating and screening operations is provided by the existing 6,000 cfm AAF cartridge filter dust collector system (Exhaust Stack: SV7-CLADDING).

**I. EMISSION LIMITS**

<b>Pollutant</b>	<b>Limit</b>	<b>Time Period / Operating Scenario</b>	<b>Equipment</b>	<b>Testing / Monitoring Method</b>	<b>Underlying Applicable Requirements</b>
1. VOCs	14.6 tpy	12-month rolling time period as determined at the end of each calendar month	EU-CLADDING	SC VI.2	R 336.1702(a)

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Testing / Monitoring Method	Underlying Applicable Requirements
2. PM	0.007 lb per 1000 lbs of gas*	Hourly	EU-CLADDING	SC VI.4	R 336.1331
3. PM10	0.19 pph	Hourly	EU-CLADDING	SC VI.4	40 CFR 52.21(c)&(d)
4. Glacial Acetic Acid [CAS # 64-19-7]	14.1 lbs/shift <sup>1</sup>	8-hour shift	EU-CLADDING	SC VI.3	R 336.1224, R 336.1225
5. Formaldehyde [CAS # 50-00-0]	80 lbs/yr <sup>1</sup>	12-month rolling time period as determined at the end of each calendar month	EU-CLADDING	SC VI.4	R 336.1224, R 336.1225

\* Calculated on a wet gas basis

6. There shall be no visible emissions from EU-CLADDING. **(R 336.1224, R 336.1301, R 336.1331, 40 CFR 52.21(c) & (d))**

## II. MATERIAL LIMITS

1. The formaldehyde content of material processed in EU-CLADDING shall not exceed 0.086 pound in any batch.<sup>1</sup> **(R 336.1224, R 336.1225)**

## III. PROCESS/OPERATIONAL RESTRICTIONS

1. The permittee shall not operate EU-CLADDING unless a malfunction abatement plan (MAP) as described in Rule 911(2), for the EU-CLADDING 6,000 cfm AAF cartridge filter dust collector system, is implemented and maintained. If at any time the MAP fails to address or inadequately addresses an event that meets the characteristics of a malfunction, the permittee shall amend the MAP within 45 days after such an event occurs. The permittee shall also amend the MAP within 45 days, if new equipment is installed or upon request from the District Supervisor. The permittee shall submit the MAP and any amendments to the MAP to the AQD District Supervisor for review and approval. If the AQD does not notify the permittee within 90 days of submittal, the MAP or amended MAP shall be considered approved. Until an amended plan is approved, the permittee shall implement corrective procedures or operational changes to achieve compliance with all applicable emission limits. **(R 336.1225, R 336.1301, R 336.1331, R 336.1910, R 336.1911, 40 CFR 52.21(c) and (d))**

## IV. DESIGN/EQUIPMENT PARAMETERS

1. The permittee shall not operate EU-CLADDING unless the cartridge filter dust collector system is installed, maintained, and operated in a satisfactory manner. Satisfactory operation includes maintaining the dust collector pressure drop in the range specified in the MAP as constituting satisfactory operation. **(R 336.1224, R 336.1301, R 336.1331, R 336.1225, R 336.1910, 40 CFR 52.21(c)&(d))**
2. The permittee shall not operate EU-CLADDING unless a gauge which measures the pressure drop across the cartridge filter collector is installed, maintained and operated in a satisfactory manner. **(R 336.1224, R 336.1225, R 336.1301, R 336.1331, R 336.1910, 40 CFR 52.21(c)&(d))**

## V. TESTING/SAMPLING

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

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 on a monthly basis for EU-CLADDING:
  - a) Gallons or pounds of each VOC containing material used.
  - b) Where applicable, gallons or pounds of each VOC containing material reclaimed.
  - c) VOC content, in pounds per gallon or pounds per pound, of each VOC containing material used.
  - d) VOC mass emission calculations determining the monthly emission rate in tons per calendar month.
  - e) VOC mass emission calculations determining the annual emission rate in tons per 12-month rolling time period as determined at the end of each calendar month.

The permittee shall keep the records in a format acceptable to the AQD District Supervisor. The permittee shall keep all records on file for a period of at least five years and make them available to the Department upon request. **(R 336.1702(a))**

2. The permittee shall keep the following information on a monthly basis for EU-CLADDING:
  - a) Pounds of glacial acetic acid used per shift.
  - b) Glacial acetic acid mass emission calculations determining the emission rate in pounds per 8-hour shift.

The permittee shall keep the records in a format acceptable to the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request.<sup>1</sup> **(R 336.1224, R 336.1225)**

3. The permittee shall keep the following information on a calendar month basis for EU-CLADDING:
  - a) Pounds of each formaldehyde containing material processed.
  - b) The formaldehyde content in weight percent of each formaldehyde containing material (KETJENFLEX MH, UCAR Vehicle 455, etc.) processed.
  - c) The total mass of formaldehyde in each batch processed in EU-CLADDING during the calendar month. This record may be maintained as a list of recipes processed during the calendar month, and a list of recipes with a calculated formaldehyde content for each recipe.
  - d) Formaldehyde mass emission calculations determining the monthly emission rate in pounds per calendar month.
  - e) Formaldehyde mass emission calculations determining the annual emission rate in pounds per 12-month rolling time period as determined at the end of each calendar month.

The permittee shall keep the records in a format acceptable to the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request.<sup>1</sup> **(R 336.1224, R 336.1225)**

4. The permittee shall continuously monitor the pressure drop across the cartridge filter dust collector and record the pressure drop at least once per calendar day of process operation. The permittee shall keep all records on file at the facility and make them available to the Department upon request. **(R 336.1224, R 336.1225, R 336.1301, R 336.1331, R 336.1910, 40 CFR 52.21(c)&(d))**

## **VII. REPORTING**

NA



**VIII. STACK/VENT RESTRICTIONS**

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

<b>Stack &amp; Vent ID</b>	<b>Maximum Exhaust Diameter/Dimensions (inches)</b>	<b>Minimum Height Above Ground (feet)</b>	<b>Underlying Applicable Requirements</b>
1. SV7-CLADDING	24	14.5	R 336.1225, 40 CFR 52.21(c)&(d)

**IX. OTHER REQUIREMENTS**

NA

**Footnotes:**

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

**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-ATOM-SCREEN	Includes the nitrogen atomization operation, all non-cladding product screening and packaging, mixing/blending, and material handling operations. Particulate emission control is provided by the common 27,000 cfm dust collector system (Exhaust Stack: SV10-ATOM-SCREEN).	EU-N2-ATOMIZ-C, EU-N2-ATOMIZ-F, EU-N2-ATOMIZ-G, EU-N2-ATOMIZ-4, EU-SCREEN-PACK

**The following conditions apply to:**  
**FG-ATOM-SCREEN**

**DESCRIPTION:** Includes the nitrogen atomization operation, all non-cladding product screening and packaging, mixing/blending, and material handling operations.

**Emission Units:** EU-N2-ATOMIZ-C, EU-N2-ATOMIZ-F, EU-N2-ATOMIZ-G, EU-N2-ATOMIZ-4, EU-SCREEN-PACK

**POLLUTION CONTROL EQUIPMENT:** Particulate emission control for the nitrogen atomization and the non-cladding screening, packaging, mixing/blending, and material handling operations is provided by the common 27,000 cfm dust collector system (Exhaust Stack: SV10-ATOM-SCREEN).

**I. EMISSION LIMITS**

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Testing / Monitoring Method	Underlying Applicable Requirements
1. PM	0.007 lb per 1000 lbs of gas*	Hourly	FG-ATOM-SCREEN	SC VI.4	R 336.1331
2. PM10	0.85 pph	Hourly	FG-ATOM-SCREEN	SC VI.4	40 CFR 52.21 (c)&(d)
3. Nickel [CAS # 7440-02-0]	0.0284 pph <sup>1</sup>	Hourly	FG-ATOM-SCREEN	SC VI.4	R 336.1224, R 336.1225
4. Nickel [CAS # 7440-02-0]	33.0 lbs/yr <sup>1</sup>	12-month rolling time period as determined at the end of each calendar month	FG-ATOM-SCREEN	SC VI.2	R 336.1224, R 336.1225(2)
5. Cobalt [CAS # 7440-48-4]	0.0168 pph <sup>1</sup>	Hourly	FG-ATOM-SCREEN	SC VI.4	R 336.1224, R 336.1225
6. Cobalt [CAS # 7440-48-4]	0.027 lb/shift <sup>1</sup>	8-hour shift	FG-ATOM-SCREEN	SC VI.3	R 336.1224, R 336.1225
7. Manganese [CAS # 7439-96-5]	0.016 pph <sup>1</sup>	Hourly	FG-ATOM-SCREEN	SC VI.4	R 336.1224, R 336.1225
8. Manganese [CAS # 7439-96-5]	140 lbs/yr <sup>1</sup>	12-month rolling time period as determined at the end of each calendar month	FG-ATOM-SCREEN	SC VI.2	R 336.1224, R 336.1225

\* Calculated on a wet gas basis.

9. There shall be no visible emissions from FG-ATOM-SCREEN. **(R 336.1224, R 336.1301, R 336.1331, 40 CFR 52.21(c) & (d))**

## **II. MATERIAL LIMITS**

NA

## **III. PROCESS/OPERATIONAL RESTRICTIONS**

1. The permittee shall remove collected air contaminants as necessary to maintain the equipment at the required operating efficiency. The permittee shall perform the collection and disposal of air contaminants in a manner so as to minimize the introduction of contaminants to the outer air. **(R 336.1224, R 336.1225)**
2. The permittee shall not operate FG-ATOM-SCREEN unless a malfunction abatement plan (MAP) as described in Rule 911(2), for the common 27,000 cfm dust collector system, is implemented and maintained. If at any time the MAP fails to address or inadequately addresses an event that meets the characteristics of a malfunction, the permittee shall amend the MAP within 45 days after such an event occurs. The permittee shall also amend the MAP within 45 days, if new equipment is installed or upon request from the District Supervisor. The permittee shall submit the MAP and any amendments to the MAP to the AQD District Supervisor for review and approval. If the AQD does not notify the permittee within 90 days of submittal, the MAP or amended MAP shall be considered approved. Until an amended plan is approved, the permittee shall implement corrective procedures or operational changes to achieve compliance with all applicable emission limits. **(R 336.1224, R 336.1225, R 336.1301, R 336.1331, R 336.1910, R 336.1911, 40 CFR 52.21(c) and (d))**

## **IV. DESIGN/EQUIPMENT PARAMETERS**

1. The permittee shall not operate FG-ATOM-SCREEN unless the 27,000 cfm dust collector system is installed, maintained, and operated in a satisfactory manner. Satisfactory operation of the dust collector system includes maintaining the dust collector pressure drop in the range specified in the MAP as constituting satisfactory operation. **(R 336.1224, R 336.1225, R 336.1301, R 336.1331, R 336.1910, 40 CFR 52.21(c)&(d))**
2. The permittee shall install, calibrate, maintain and operate in a satisfactory manner a safety filter system with a control efficiency rating of at least 99.97%. The system shall include sensors for both the primary and safety filters to monitor pressure drop levels on a continuous basis. Audio and visual alarms shall be included that are triggered by pressure drop levels outside of normal operating ranges. **(R 336.1224, R 336.1225, R 336.1301, R 336.1331, R 336.1910, 40 CFR 52.21(c)&(d))**
3. The permittee shall not conduct nitrogen atomizing in any FG-ATOM-SCREEN atomizing chamber unless the chamber's nitrogen inerting system is installed, maintained, and operated in a satisfactory manner to prevent contact of molten metal with oxygen and formation of metal oxides. **(R 336.1224, R 336.1225, R 336.1910)**
4. The permittee shall install, calibrate, maintain and operate in a satisfactory manner sensors for both the primary and safety filters in the dust collector system to monitor pressure drop levels on a continuous basis, including audio and visual alarms triggered by pressure drop levels outside of normal operating ranges. **(R 336.1910)**
5. The permittee shall not operate the hopper blender in EU-SCREEN-PACK unless a gasketed cover is installed, maintained, and operated in a satisfactory manner. **(R 336.1224, R 336.1225, R 336.1301, R 336.1331, R 336.1910, 40 CFR 52.21(c) and (d))**

**V. TESTING/SAMPLING**

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

NA

**VI. MONITORING/RECORDKEEPING**

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

1. The permittee shall complete all required calculations in a format acceptable to the AQD District Supervisor and make them available by the 15th day of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition.<sup>1</sup> **(R 336.1224, R 336.1225)**
2. The permittee shall keep the following information on a calendar month basis for FG-ATOM-SCREEN:
  - a) Pounds of each nickel and manganese containing material atomized during nitrogen atomization in FG-ATOM-SCREEN.
  - b) Pounds of each nickel and manganese containing material processed in EU-SCREEN-PACK.
  - c) The nickel and manganese content in pounds per pound of each nickel and manganese containing material atomized during nitrogen atomizing in FG-ATOM-SCREEN and/or processed in EU-SCREEN-PACK.
  - d) The nickel and manganese emission factors for FG-ATOM-SCREEN developed from emission test data approved by the AQD District Supervisor.
  - e) Nickel and manganese mass emission calculations determining the monthly emission rate of each in pounds per calendar month.
  - f) Nickel and manganese mass emission calculations determining the annual emission rate of each in pounds per 12-month rolling time period as determined at the end of each calendar month.

The permittee shall keep the records in a format acceptable to the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request.<sup>1</sup> **(R 336.1224, R 336.1225)**

3. The permittee shall keep the following information on a monthly basis for FG-ATOM-SCREEN:
  - a) Pounds of each cobalt containing material atomized during nitrogen atomizing in FG-ATOM-SCREEN on a shift basis.
  - b) Pounds of each cobalt containing material processed in EU-SCREEN-PACK on a daily basis.
  - c) The cobalt content in pounds per pound of each cobalt containing material atomized during nitrogen atomizing in FG-ATOM-SCREEN and/or processed in EU-SCREEN-PACK.
  - d) The cobalt emission factors for FG-ATOM-SCREEN developed from emission test data approved by the AQD District Supervisor.
  - e) Cobalt mass emission calculations determining the emission rate of cobalt in pounds per 8-hour shift.

The permittee shall keep the records in a format acceptable to the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request.<sup>1</sup> **(R 336.1224, R 336.1225)**

4. The permittee shall continuously monitor the pressure drop across the dust collector primary and safety filters when the process is operating and record any pressure drop alarm settings exceeded. In response to any alarm setting exceedance the permittee shall:
  - a) Document the date and time of the alarm and the magnitude of the exceedance in relation to the alarm level.
  - b) Review and implement the applicable operation and maintenance procedures listed in the MAP.
  - c) Record visible emission readings a minimum of once per calendar day until the alarm issue is resolved. Either a certified or non-certified reader shall take visible emission readings.
  - d) Document any corrective action taken.

The permittee shall keep all records on file at the facility and make them available to the Department upon request. **(R 336.1910)**

**VII. REPORTING**

NA

**VIII. STACK/VENT RESTRICTIONS**

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

<b>Stack &amp; Vent ID</b>	<b>Maximum Exhaust Diameter/Dimensions (inches)</b>	<b>Minimum Height Above Ground (feet)</b>	<b>Underlying Applicable Requirements</b>
1. SV10-ATOM-SCREEN	36	44.25	R 336.1225, 40 CFR 52.21(c)&(d)

**IX. OTHER REQUIREMENTS**

NA

**Footnotes:**

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