

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

July 21, 2023

PERMIT TO INSTALL
25-20A

ISSUED TO
Fair Salvage Company

LOCATED AT
2731 East Grass Lake Road
Clare, Michigan 48617

IN THE COUNTY OF
Clare

STATE REGISTRATION NUMBER
P1111

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: June 30, 2023	
DATE PERMIT TO INSTALL APPROVED: July 21, 2023	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	Malfuction 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 ₂ e	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-SHREDDER	A 3TEK Bravo 6280 Mobile Diesel Hammermill Shredder capable of processing 20 gross tons of product per hour. Emissions from the shredder are controlled by a water injection system. The shredder has inlet and discharge conveyors; and a shared magnetic drum separator, ferrous/non-ferrous separation process with an air-knife/ cyclone system, non-ferrous separation system, associated conveyors, concrete bunkers, material storage, and all associated process activities including but not limited to management of materials from the shredding operations. The shredder, ferrous/non-ferrous separation system, and the non-ferrous separation system are each powered by a diesel-fired engine. This emission unit will cease operation upon installation of EU-SHREDDER2 and EU-ENGINE4.	May 2020	NA
EU-SHREDDER2	A portable diesel hammermill shredder capable of processing 52.5 gross tons of product per hour Emissions from the shredder are controlled by a water injection system. The shredder has inlet and discharge conveyors; and a shared magnetic drum separator, ferrous/non-ferrous separation process with an air-knife/ cyclone system, non-ferrous separation system, associated conveyors, concrete bunkers, material storage, and all associated process activities including but not limited to management of materials from the shredding operations. The shredder is powered by a 2,100 hp diesel-fired engine. The ferrous/non-ferrous separation system, and the non-ferrous separation system are powered by electricity supplied by the backup generator.	TBD	NA
EU-ENGINE1	A 1,125-HP diesel fired engine providing power to the scrap metal shredder. This engine will cease operation upon installation of EU-ENGINE4.	May 2020	FG-TIER4ENGINES

Emission Unit ID	Emission Unit Description (Including Process Equipment & Control Device(s))	Installation Date / Modification Date	Flexible Group ID
EU-ENGINE2	A 173.1-HP diesel fired engine providing power to the ferrous/non-ferrous separation system. This engine will cease operation upon installation of EU-ENGINE4.	May 2020	FG-TIER4ENGINES
EU-ENGINE3	A 73.8-HP diesel fired engine providing power to the non-ferrous separation system. This engine will cease operation upon installation of EU-ENGINE4.	May 2020	FG-TIER4ENGINES
EU-ENGINE4	A 2,100-HP diesel fired engine providing power to EU-SHREDDER2.	TBD	FG-NSPSIII
EU-BACKUPGEN	An 810-kW diesel fired generator engine providing backup power to the operations including the ferrous/non-ferrous separation system, and the non-ferrous separation system when utility supplied power is not adequate.	TBD	FG-NSPSIII

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-SHREDDER EMISSION UNIT CONDITIONS

DESCRIPTION

A 3TEK Bravo 6280 Mobile Diesel Hammermill Shredder capable of processing 20 gross tons of product per hour. Emissions from the shredder are controlled by a water injection system. The shredder has inlet and discharge conveyors; and a shared magnetic drum separator, ferrous/non-ferrous separation process with an air-knife/cyclone system, non-ferrous separation system, associated conveyors, concrete bunkers, material storage, and all associated process activities including but not limited to management of materials from the shredding operations. The shredder, ferrous/non-ferrous separation system, and the non-ferrous separation system are each powered by a diesel-fired engine. This emission unit will cease operation upon installation of EU-SHREDDER2 and EU-ENGINE4.

Flexible Group ID: NA

POLLUTION CONTROL EQUIPMENT

Water injection system on the shredder and a cyclone on the ferrous/non-ferrous separator

I. EMISSION LIMIT(S)

1. Visible emissions from the shredder portion of EU-SHREDDER shall not exceed a six-minute average of 10 percent opacity.³ (R 336.1301(1)(c), R 336.1331, R 336.1901, 40 CFR 52.21(c) and (d))
2. Visible emissions from the ferrous/non-ferrous portion of EU-SHREDDER shall not exceed a six-minute average of 10 percent opacity.³ (R 336.1301(1)(c), R 336.1331, R 336.1901, 40 CFR 52.21(c) and (d))
3. Visible emissions from the non-ferrous portion of EU-SHREDDER shall not exceed a six-minute average of 10 percent opacity.³ (R 336.1301(1)(c), R 336.1331, R 336.1901, 40 CFR 52.21(c) and (d))
4. Visible emissions from the conveyors and transfer points of EU-SHREDDER shall not exceed a six-minute average of 10 percent opacity.³ (R 336.1301(1)(c), R 336.1331, R 336.1901, 40 CFR 52.21(c) and (d))

II. MATERIAL LIMIT(S)

1. The permittee shall not process more than 48,000 tons per 12-month rolling time period as determined at the end of each calendar month of material through EU-SHREDDER.³ (R 336.1224, R 336.1225, R 336.1901)
2. The permittee shall not process any asbestos tailing or waste materials containing asbestos in EU-SHREDDER pursuant to the National Emission Standards for Hazardous Air Pollutants, 40 CFR Part 61, Subpart M.³ (R 336.1224, R 336.1225, R 336.1901, 40 CFR Part 61 Subpart M)
3. The permittee shall not process batteries.³ (R 336.1224, R 336.1901)
4. The permittee shall not process any fuel tanks unless they are flattened or punctured.³ (R 336.1224, R 336.1901)

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall not operate EU-SHREDDER unless the water injection system is installed, maintained, and operated in a satisfactory manner.³ (R 336.1224, R 336.1225, R 336.1331, R 336.1901, R 336.1910, 40 CFR 52.21(c) and (d))

2. The permittee shall not operate EU- SHREDDER unless the cyclone is installed, maintained, and operated in a satisfactory manner.³ **(R 336.1224, R 336.1225, R 336.1331, R 336.1901, R 336.1910, 40 CFR 52.21(c) and (d))**
3. The permittee shall remove and properly dispose of fluids from materials to be shredded as specified in the plan in SC III.8 (or inspect and/or document that removal has been performed). Materials include but are not limited to vehicles, appliances, and industrial machinery. Fluids shall include, at a minimum, gasoline, motor oil, antifreeze, transmission oil, brake oil, power steering fluid, hydraulic fluid, and differential fluid.³ **(R 336.1224, R 336.1702(a), R 336.1901)**
4. The permittee shall remove and properly dispose of freon or other chlorofluorocarbons/halogenated chlorofluorocarbons (CFCs/HCFCs) from materials to be shredded as specified in the plan in SC III.8 (or inspect and/or document that removal has been performed). Materials include but are not limited to air conditioning units in vehicles, appliances, and industrial machinery.³ **(R 336.1224, R 336.1901)**
5. The permittee shall remove and properly dispose of mercury-containing devices from materials to be shredded as specified in the plan in SC III.8 (or inspect and/or document that removal has been performed). Materials include but are not limited to vehicles, appliances, and industrial machinery.³ **(R 336.1224, R 336.1225, R 336.1901)**
6. The permittee shall stage all non-metal and automotive shredder residue (e.g., fluff) generated by EU-SHREDDER in a total volume not to exceed 500 cubic yards at any time.³ **(R 336.1301, R 336.1901)**
7. All fluids, non-metal, and waste materials generated by the EU-SHREDDER shall be contained and disposed of or recycled in an acceptable manner in compliance with all applicable state and federal rules and regulations.³ **(R 336.1224, R 336.1702(a), R 336.1901)**
8. Prior to commencement of operations, the permittee shall submit to the AQD District Supervisor an acceptable written plan demonstrating compliance with SCs II.2, II.3, II.4, and SCs III.3, III.4, III.5, III.6, III.7. The permittee shall not operate EU-SHREDDER unless the plan, or an alternate plan is implemented and maintained. Any changes to the plan by the permittee or as reasonably requested by the AQD shall be submitted to the AQD District Supervisor within 30 days.³ **(R 336.1224, R 336.1702(a), R 336.1901)**
9. The permittee shall prevent fires from starting in the pile of non-metal and automotive shredder residue (e.g., fluff) through regular and frequent applications of water as needed.³ **(R 336.1310, R 336.1901)**
10. The permittee shall not operate EU-SHREDDER unless the program for continuous fugitive emissions control for all plant roadways, the plant yard, all material storage piles, and all material handling operations specified in Appendix A has been implemented and is maintained.³ **(R 336.1901)**
11. The permittee shall not operate EU-SHREDDER unless a malfunction abatement plan (MAP) as described in Rule 911(2), for EU-SHREDDER, has been submitted within 45 days of commencement of trial operation, and is implemented and maintained. The MAP shall, at a minimum, specify the following:
 - a) A complete preventative maintenance program including identification of the supervisory personnel responsible for overseeing the inspection, maintenance, and repair of air-cleaning devices, a description of the items or conditions that shall be inspected, the frequency of the inspections or repairs, and an identification of the major replacement parts that shall be maintained in inventory for quick replacement.
 - b) An identification of the source and air-cleaning device operating variables that shall be monitored to detect a malfunction or failure, the normal operating range of these variables, and a description of the method of monitoring or surveillance procedures.
 - c) A description of the corrective procedures or operational changes that shall be taken in the event of a malfunction or failure to achieve compliance with the applicable emission limits.

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.³ (R 336.1225, R 336.1331, R 336.1910, R 336.1911, 40 CFR 52.21(c) and (d))

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall install, calibrate, maintain and operate, in a satisfactory manner, a device to monitor the water injection rate on a continuous basis for the water injection system on EU-SHREDDER.³ (R 336.1910)
2. The permittee shall not operate EU-SHREDDER unless the conveyor(s), which carries the dry non-metal and automotive shredder residue, is covered and a chute at the discharge end of the conveyor is in place.³ (R 336.1301, R 336.1901)

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 visible emissions from EU-SHREDDER (to demonstrate compliance with SCs I.1, I.2, I.3, I.4) by testing at owner's expense, in accordance with Department requirements. Testing shall be performed using an approved EPA Method listed in the table below.

Pollutant	Test Method Reference
Visible Emission	40 CFR Part 51, Appendix M; 40 CFR Part 60, Appendix A

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.³ (R 336.1225, R 336.1301, R 336.1331, R 336.2001, R 336.2003, R 336.2004, 40 CFR 52.21(c) and (d))

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 last day of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition.³ (R 336.1205, R 336.1224, R 336.1225, R 336.1299, R 336.1901)
2. The permittee shall keep, in a satisfactory manner, daily records of the water injection rate from the water injection system on EU-SHREDDER. The permittee shall keep all records on file at the facility and make them available to the Department upon request.³ (R 336.1224, R 336.1225, 40 CFR 52.21(c) and (d))
3. The permittee shall keep records of the amount of material processed in EU-SHREDDER in tons per 12-month rolling time period as determined at the end of each calendar month. The permittee shall keep all records in a format acceptable to the AQD District Supervisor. The permittee shall keep all records on file at the facility and make them available to the Department upon request.³ (R 336.1224, R 336.1225, R 336.1702, R 336.1901, 40 CFR 52.21(c) and (d))
4. The permittee shall keep daily records of the total volume of non-metal and fluff staged. The permittee shall keep all records in a format acceptable to the AQD District Supervisor. The permittee shall keep all records on file at the facility and make them available to the Department upon request.³ (R 336.1224, R 336.1225, R 336.1901)

VII. REPORTING

NA

VIII. STACK/VENT RESTRICTION(S)

1. The exhaust gases from the cyclone of the ferrous/non-ferrous portion of EU-SHREDDER shall not exhaust to the ambient air.³ **(40 CFR 52.21(c) and (d))**

IX. OTHER REQUIREMENT(S)

1. Within 180 days after completion of the installation of EU-SHREDDER2 and EU-ENGINE4, the permittee shall cease operation of and remove all equipment pertaining to the hammermill portion of EU-SHREDDER.⁴ **(R 336.1224, R 336.1225, R 336.1702, R 336.1901, 40 CFR 52.21(c) and (d))**

Footnotes:

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

² This condition is federally enforceable and was established pursuant to Rule 201(1)(a).

³ This condition applies until EU-SHREDDER2 shredder and EU-ENGINE4 are installed.

⁴ This condition applies on and after the installation of EU-SHREDDER2 shredder and EU-ENGINE4.

EU-SHREDDER2 EMISSION UNIT CONDITIONS

DESCRIPTION

A portable diesel hammermill shredder capable of processing 52.5 gross tons of product per hour. Emissions from the shredder are controlled by a water injection system. The shredder has inlet and discharge conveyors; and a shared magnetic drum separator, ferrous/non-ferrous separation process with an air-knife/ cyclone system, non-ferrous separation system, associated conveyors, concrete bunkers, material storage, and all associated process activities including but not limited to management of materials from the shredding operations. The shredder, ferrous/non-ferrous separation system, and the non-ferrous separation system are powered by a 2,100 hp diesel-fired engine. The ferrous/non-ferrous separation system, and the non-ferrous separation system are powered by electricity supplied by the backup generator.

Flexible Group ID: NA

POLLUTION CONTROL EQUIPMENT

Water injection system on the shredder and a cyclone on the ferrous/non-ferrous separator

I. EMISSION LIMIT(S)

1. Visible emissions from the shredder portion of EU-SHREDDER2 shall not exceed a six-minute average of 10 percent opacity.⁴ **(R 336.1301(1)(c), R 336.1331, R 336.1901, 40 CFR 52.21(c) and (d))**
2. Visible emissions from the ferrous/non-ferrous portion of EU-SHREDDER2 shall not exceed a six-minute average of 10 percent opacity.⁴ **(R 336.1301(1)(c), R 336.1331, R 336.1901, 40 CFR 52.21(c) and (d))**
3. Visible emissions from the non-ferrous portion of EU-SHREDDER2 shall not exceed a six-minute average of 10 percent opacity.⁴ **(R 336.1301(1)(c), R 336.1331, R 336.1901, 40 CFR 52.21(c) and (d))**
4. Visible emissions from the conveyors and transfer points of EU-SHREDDER2 shall not exceed a six-minute average of 10 percent opacity.⁴ **(R 336.1301(1)(c), R 336.1331, R 336.1901, 40 CFR 52.21(c) and (d))**

II. MATERIAL LIMIT(S)

1. The permittee shall not process more than 128,000 tons per 12-month rolling time period as determined at the end of each calendar month of material through EU-SHREDDER2.⁴ **(R 336.1224, R 336.1225, R 336.1901)**
2. The permittee shall not process any asbestos tailing or waste materials containing asbestos in EU-SHREDDER2 pursuant to the National Emission Standards for Hazardous Air Pollutants, 40 CFR Part 61, Subpart M.⁴ **(R 336.1224, R 336.1225, R 336.1901, 40 CFR Part 61 Subpart M)**
3. The permittee shall not process batteries.⁴ **(R 336.1224, R 336.1901)**
4. The permittee shall not process any fuel tanks unless they are flattened or punctured.⁴ **(R 336.1224, R 336.1901)**

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall not operate EU-SHREDDER2 unless the water injection system is installed, maintained, and operated in a satisfactory manner.⁴ **(R 336.1224, R 336.1225, R 336.1331, R 336.1901, R 336.1910, 40 CFR 52.21(c) and (d))**

2. The permittee shall not operate EU- SHREDDER2 unless the cyclone is installed, maintained, and operated in a satisfactory manner. ⁴ **(R 336.1224, R 336.1225, R 336.1331, R 336.1901, R 336.1910, 40 CFR 52.21(c) and (d))**
3. The permittee shall remove and properly dispose of fluids from materials to be shredded as specified in the plan in SC III.8 (or inspect and/or document that removal has been performed). Materials include but are not limited to vehicles, appliances, and industrial machinery. Fluids shall include, at a minimum, gasoline, motor oil, antifreeze, transmission oil, brake oil, power steering fluid, hydraulic fluid, and differential fluid. ⁴ **(R 336.1224, R 336.1702(a), R 336.1901)**
4. The permittee shall remove and properly dispose of freon or other chlorofluorocarbons/halogenated chlorofluorocarbons (CFCs/HCFCs) from materials to be shredded as specified in the plan in SC III.8 (or inspect and/or document that removal has been performed). Materials include but are not limited to air conditioning units in vehicles, appliances, and industrial machinery. ⁴ **(R 336.1224, R 336.1901)**
5. The permittee shall remove and properly dispose of mercury-containing devices from materials to be shredded as specified in the plan in SC III.8 (or inspect and/or document that removal has been performed). Materials include but are not limited to vehicles, appliances, and industrial machinery. ⁴ **(R 336.1224, R 336.1225, R 336.1901)**
6. The permittee shall stage all non-metal and automotive shredder residue (e.g., fluff) generated by EU-SHREDDER2 in a total volume not to exceed 500 cubic yards at any time. ⁴ **(R 336.1301, R 336.1901)**
7. All fluids, non-metal, and waste materials generated by the EU-SHREDDER2 shall be contained and disposed of or recycled in an acceptable manner in compliance with all applicable state and federal rules and regulations. ⁴ **(R 336.1224, R 336.1702(a), R 336.1901)**
8. Prior to commencement of operations, the permittee shall submit to the AQD District Supervisor an acceptable written plan demonstrating compliance with SCs II.2, II.3, II.4, and SCs III.3, III.4, III.5, III.6, III.7. The permittee shall not operate EU-SHREDDER2 unless the plan, or an alternate plan is implemented and maintained. Any changes to the plan by the permittee or as reasonably requested by the AQD shall be submitted to the AQD District Supervisor within 30 days. ⁴ **(R 336.1224, R 336.1702(a), R 336.1901)**
9. The permittee shall prevent fires from starting in the pile of non-metal and automotive shredder residue (e.g., fluff) through regular and frequent applications of water as needed. ⁴ **(R 336.1310, R 336.1901)**
10. The permittee shall not operate EU-SHREDDER2 unless the program for continuous fugitive emissions control for all plant roadways, the plant yard, all material storage piles, and all material handling operations specified in Appendix A has been implemented and is maintained. ⁴ **(R 336.1371, R 336.1901)**
11. The permittee shall not operate EU-SHREDDER2 unless a malfunction abatement plan (MAP) as described in Rule 911(2), for EU-SHREDDER2, has been submitted within 45 days of commencement of trial operation, and is implemented and maintained. The MAP shall, at a minimum, specify the following:
 - a) A complete preventative maintenance program including identification of the supervisory personnel responsible for overseeing the inspection, maintenance, and repair of air-cleaning devices, a description of the items or conditions that shall be inspected, the frequency of the inspections or repairs, and an identification of the major replacement parts that shall be maintained in inventory for quick replacement.
 - b) An identification of the source and air-cleaning device operating variables that shall be monitored to detect a malfunction or failure, the normal operating range of these variables, and a description of the method of monitoring or surveillance procedures.
 - c) A description of the corrective procedures or operational changes that shall be taken in the event of a malfunction or failure to achieve compliance with the applicable emission limits.

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. ⁴ (R 336.1225, R 336.1331, R 336.1910, R 336.1911, 40 CFR 52.21(c) and (d))

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall install, calibrate, maintain and operate, in a satisfactory manner, a device to monitor the water injection rate on a continuous basis for the water injection system on EU-SHREDDER. ⁴ (R 336.1910)
2. The permittee shall not operate EU-SHREDDER2 unless the conveyor(s), which carries the dry non-metal and automotive shredder residue, is covered and a chute at the discharge end of the conveyor is in place. ⁴ (R 336.1301, R 336.1901)

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 visible emissions from EU-SHREDDER2 (to demonstrate compliance with SCs I.1, I.2, I.3, I.4) by testing at owner's expense, in accordance with Department requirements. Testing shall be performed using an approved EPA Method listed in the table below.

Pollutant	Test Method Reference
Visible Emission	40 CFR Part 51, Appendix M; 40 CFR Part 60, Appendix A

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. ⁴ (R 336.1225, R 336.1301, R 336.1331, R 336.2001, R 336.2003, R 336.2004, 40 CFR 52.21(c) and (d))

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 last day of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition. ⁴ (R 336.1224, R 336.1225, R 336.1702, R 336.1901, 40 CFR 52.21(c) and (d))
2. The permittee shall keep, in a satisfactory manner, daily records of the water injection rate from the water injection system on EU-SHREDDER2. The permittee shall keep all records on file at the facility and make them available to the Department upon request. ⁴ (R 336.1224, R 336.1225, 40 CFR 52.21(c) and (d))
3. The permittee shall keep records of the amount of material processed in EU-SHREDDER2 in tons per 12-month rolling time period as determined at the end of each calendar month. The permittee shall keep all records in a format acceptable to the AQD District Supervisor. The permittee shall keep all records on file at the facility and make them available to the Department upon request. ⁴ (R 336.1224, R 336.1225, R 336.1702, R 336.1901, 40 CFR 52.21(c) and (d))
4. The permittee shall keep daily records of the total volume of non-metal and fluff staged. The permittee shall keep all records in a format acceptable to the AQD District Supervisor. The permittee shall keep all records on file at the facility and make them available to the Department upon request. ⁴ (R 336.1224, R 336.1225, R 336.1901)

VII. REPORTING

1. Within 30 days after completion of the installation, construction, reconstruction, relocation, or modification authorized by this Permit to Install, the permittee or the authorized agent pursuant to Rule 204, shall notify the AQD District Supervisor, in writing, of the completion of the activity. Completion of the installation, construction, reconstruction, relocation, or modification is considered to occur not later than commencement of trial operation of EU-SHREDDER2. ⁴ **(R 336.1201(7)(a))**

VIII. STACK/VENT RESTRICTION(S)

1. The exhaust gases from the cyclone of the ferrous/non-ferrous portion of EU-SHREDDER2 shall not exhaust to the ambient air. ⁴ **(40 CFR 52.21(c) and (d))**

IX. OTHER REQUIREMENT(S)

NA

Footnotes:

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

² This condition is federally enforceable and was established pursuant to Rule 201(1)(a).

³ This condition applies until EU-SHREDDER2 shredder and EU-ENGINE4 are installed.

⁴ This condition applies on and after the installation of EU-SHREDDER2 shredder and EU-ENGINE4.

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-TIER4ENGINES	Three (3) US EPA Tier 4 certified engines that support the scrap metal shredding operations. One engine powers the shredder, one powers the ferrous/non-ferrous separator, and one powers the non-ferrous separator. All engines will cease operation upon the installation of EU-ENGINE4.	EU-ENGINE1, EU-ENGINE2, EU-ENGINE3
FG-NSPSIII	Two (2) NSPS Subpart IIII subject engines.	EU-ENGINE4, EU-BACKUPGEN

**FG-TIER4ENGINES
 FLEXIBLE GROUP CONDITIONS**

DESCRIPTION

Three (3) US EPA Tier 4 certified engines that support the scrap metal shredding operations. One engine powers the shredder, one powers the ferrous separator, and one powers the non-ferrous separator. All engines will cease operation upon the installation of EU-ENGINE4.

Emission Unit: EU-ENGINE1, EU-ENGINE2, EU-ENGINE3

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Monitoring / Testing Method	Underlying Applicable Requirements
1. NO _x	3.5 g/kW-hr ³	Hourly	EU-ENGINE1	SC V.1, SC VI.2	40 CFR 52.21 (c) & (d), 40 CFR 1039.101 Table 1
2. NMHC	0.19 g/kW-hr ³	Hourly	EU-ENGINE1, EU-ENGINE2	SC V.1, SC VI.2	40 CFR 52.21 (c) & (d), 40 CFR 1039.101 Table 1
3. PM	0.04 g/kW-hr ³	Hourly	EU-ENGINE1	SC V.1, SC VI.2	40 CFR 52.21 (c) & (d), 40 CFR 1039.101 Table 1
4. NO _x	0.4 g/kW-hr ³	Hourly	EU-ENGINE2	SC V.1, SC VI.2	40 CFR 52.21 (c) & (d), 40 CFR 1039.101 Table 1
5. PM	0.02 g/kW-hr ³	Hourly	EU-ENGINE2	SC V.1, SC VI.2	40 CFR 52.21 (c) & (d), 40 CFR 1039.101 Table 1
6. NMHC + NO _x	4.7 g/kW-hr ³	Hourly	EU-ENGINE3	SC V.1, SC VI.2	40 CFR 52.21 (c) & (d), 40 CFR 1039.101 Table 1
7. PM	0.03 g/kW-hr ³	Hourly	EU-ENGINE3	SC V.1, SC VI.2	40 CFR 52.21 (c) & (d), 40 CFR 1039.101 Table 1

II. MATERIAL LIMIT(S)

1. The permittee shall burn only diesel fuel, in FG-TIER4ENGINES with the maximum sulfur content of 15 ppm (0.0015 percent) by weight, and a minimum Cetane index of 40 or a maximum aromatic content of 35 volume percent. ³ **(40 CFR 60.4207, 40 CFR 80.510(b))**

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall not operate any engine in FG-TIER4ENGINES for more than 4,100 hours per 12-month rolling time period as determined at the end of each calendar month. ³ **(R 336.1224, R 336.1225, 40 CFR 52.21(c) and (d))**
2. The permittee shall install, maintain, and operate each engine in FG-TIER4ENGINES according to the manufacturer written instructions, or procedures developed by the owner/operator and approved by the engine manufacturer, over the entire life of the engine. ³ **(40 CFR 60.4206, 40 CFR 60.4211(a))**
3. The permittee shall only operate each engine in FG-TIER4ENGINES for the purpose of providing operational support to EU-SHREDDER. ³ **(R 336.1224, R 336.1225, R 336.1901, 40 CFR 52.21(c) and (d))**
4. If the permittee purchased a certified engine, according to procedures specified in 40 CFR Part 60, Subpart IIII, for the same model year, the permittee shall meet the following requirements for each certified engine in FG-TIER4ENGINES:
 - a) Operate and maintain the certified engine and control device according to the manufacturer's emission-related written instructions.
 - b) Change only those emission-related settings that are permitted by the manufacturer.
 - c) Meet the requirements as specified in 40 CFR 89, 94 and/or 1068, as they apply to the engine.

If the permittee does not operate and maintain the certified engine and control device according to the manufacturer's emission-related written instructions, the engine will be considered a non-certified engine. ³ **(40 CFR 60.4211(a) and (c))**

5. If the permittee purchased a non-certified engine or a certified engine operating in a non-certified manner, the permittee shall keep a maintenance plan for each non-certified engine or certified engine operating in a non-certified manner in FG-TIER4ENGINES and shall, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. ³ **(40 CFR 60.4211(g)(3))**

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall equip and maintain each engine in FG-TIER4ENGINES with a non-resettable hours meter to track the operating hours. ³ **(R 336.1225, 40 CFR 60.4209)**
1. The maximum rated power output of EU-ENGINE1 shall not exceed 1,125 HP (838.93 kW), as certified by the equipment manufacturer. ³ **(40 CFR 60.4202, 40 CFR 89.112(a))**
2. The maximum rated power output of EU-ENGINE2 shall not exceed 173.1 HP (129.08 kW), as certified by the equipment manufacturer. ³ **(40 CFR 60.4202, 40 CFR 89.112(a))**
3. The maximum rated power output of EU-ENGINE3 shall not exceed 73.8 HP (55.03 kW), as certified by the equipment manufacturer. ³ **(40 CFR 60.4202, 40 CFR 89.112(a))**

V. TESTING/SAMPLING

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

1. If any engine in FG-TIER4ENGINES is not installed, configured, operated, and maintained according to the manufacturer's emission-related written instructions, or the permittee changes emission-related settings in a way that is not permitted by the manufacturer, the permittee must demonstrate compliance as follows:
 - a) Conduct an initial performance test to demonstrate compliance with the applicable emission standards within one year of startup, or within one year after an engine and control device is no longer installed, configured, operated, and maintained in accordance with the manufacturer's emission-related written instructions, or within one year after you change emission-related settings in a way that is not permitted by the manufacturer.

- b) If a performance test is required, the performance tests shall be conducted according to need to pick one or use both of the following requirements depending on the engine cylinder size.
- c) Conduct subsequent performance testing every 8,760 hours of engine operation or every three years thereafter, whichever comes first, to demonstrate compliance with the applicable emission standards.

No less than 30 days prior to testing, a complete test plan shall be submitted to the AQD. 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. ³ **(40 CFR 60.4211(g)(1), (2), and (3), 40 CFR 60.4212)**

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 by the last day of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition. ³ **(R 336.1205, R 336.2803, R 336.2804, 40 CFR 52.21 (c) and (d))**
2. The permittee shall keep, in a satisfactory manner, the following records for each engine in FG-TIER4ENGINES:
 - a) For each certified engine: The permittee shall keep records of the manufacturer certification documentation.
 - b) For each uncertified engine: The permittee shall keep records of testing required in SC V.1.

The permittee shall keep all records on file and make them available to the Department upon request. ³ **(40 CFR 60.4211)**

3. The permittee shall keep, in a satisfactory manner, the following records of maintenance activity for each engine in FG-TIER4ENGINES:
 - a) For each certified engine: The permittee shall keep records of the manufacturer's emission-related written instructions, and records demonstrating that the engine has been maintained according to those instructions, as specified in SC III.4.
 - b) For each uncertified engine: The permittee shall keep records of a maintenance plan, as required by SC III.5, and maintenance activities.

The permittee shall keep all records on file and make them available to the Department upon request. ³ **(40 CFR 60.4211)**

4. The permittee shall monitor in a satisfactory manner the hours of operation for each engine on a monthly and 12-month rolling time period basis. ³ **(R 336.1225, R 336.1702(a), R 336.2803, R 336.2804, 40 CFR 52.21 (c) and (d))**
5. The permittee shall keep, in a satisfactory manner, records of testing required in SC V.1 or manufacturer certification documentation indicating that each engine in FG-TIER4ENGINES meets the applicable emission limitations contained in the federal Standards of Performance for New Stationary Sources 40 CFR Part 60 Subpart IIII. If any engine in FG-TIER4ENGINES becomes uncertified then the permittee must also keep records of a maintenance plan and maintenance activities. The permittee shall keep all records on file and make them available to the Department upon request. ³ **(40 CFR 60.4211(g))**
6. The permittee shall keep, in a satisfactory manner, fuel supplier certification records or fuel sample test data, for each delivery of diesel fuel used in FG-TIER4ENGINES, demonstrating that the fuel meets the requirement of 40 CFR 80.510(b). The certification or test data shall include the name of the fuel supplier or laboratory, the sulfur content, and cetane index or aromatic content of the fuel. ³ **(40 CFR 60.4207(b), 40 CFR 80.510(b))**

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-ENGINE1A ³	5	10	R 336.1225, 40 CFR 52.21 (c) & (d)
2. SV-ENGINE1B ³	5	10	R 336.1225, 40 CFR 52.21 (c) & (d)
3. SV-ENGINE2 ³	3	10	R 336.1225, 40 CFR 52.21 (c) & (d)
4. SV-ENGINE3 ³	2.5	8	R 336.1225, 40 CFR 52.21 (c) & (d)

IX. OTHER REQUIREMENT(S)

1. The permittee shall comply with all applicable provisions of the New Source Performance Standards, as specified in 40 CFR Part 60, Subpart A and Subpart IIII, as they apply to FG-TIER4ENGINES. ³ **(40 CFR Part 60 Subparts A and IIII, 60.4200)**
2. The permittee shall comply with all applicable provisions of the National Emission Standards for Hazardous Air Pollutants, as specified in 40 CFR Part 63, Subpart A and Subpart ZZZZ, as they apply to FG-TIER4ENGINES. ³ **(40 CFR 63.6595, 40 CFR Part 63, Subparts A and ZZZZ)**

Footnotes:

- ¹ This condition is state only enforceable and was established pursuant to Rule 201(1)(b).
- ² This condition is federally enforceable and was established pursuant to Rule 201(1)(a).
- ³ This condition applies until EU-SHREDDER2 shredder and EU-ENGINE4 are installed.
- ⁴ This condition applies on and after the installation of EU-SHREDDER2 shredder and EU-ENGINE4.

**FG-NSPSIII
 FLEXIBLE GROUP CONDITIONS**

DESCRIPTION

Two (2) NSPS Subpart III subject engines.

Emission Unit: EU-ENGINE4, EU-BACKUPGEN

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Monitoring / Testing Method	Underlying Applicable Requirements
1. NO _x	26.5 tpy ⁴	12-month rolling time period as determined at the end of each calendar month	EU-ENGINE4	SC VI.5	40 CFR 52.21 (c) & (d)
2. NO _x	5.65 g/kW-hr ⁴	Hourly	EU-ENGINE4	SC V.1, SC VI.2	40 CFR 52.21 (c) & (d)
3. CO	0.25 g/kW-hr ⁴	Hourly	EU-ENGINE4	SC V.1, SC VI.2	40 CFR 52.21 (c) & (d)
4. NMHC	0.18 g/kW-hr ⁴	Hourly	EU-ENGINE4	SC V.1, SC VI.2	40 CFR 52.21 (c) & (d)
5. PM	0.06 g/kW-hr ⁴	Hourly	EU-ENGINE4	SC V.1, SC VI.2	40 CFR 52.21 (c) & (d)
6. NO _x	13.4 tpy ⁴	12-month rolling time period as determined at the end of each calendar month	EU- BACKUPGEN	SC VI.5	40 CFR 52.21 (c) & (d)
7. NO _x	5.36 g/kW-hr ⁴	Hourly	EU- BACKUPGEN	SC V.1, SC VI.2	40 CFR 52.21 (c) & (d)
8. CO	0.60 g/kW-hr ⁴	Hourly	EU- BACKUPGEN	SC V.1, SC VI.2	40 CFR 52.21 (c) & (d)
9. NMHC	0.56 g/kW-hr ⁴	Hourly	EU- BACKUPGEN	SC V.1, SC VI.2	40 CFR 52.21 (c) & (d)

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Monitoring / Testing Method	Underlying Applicable Requirements
10. PM	0.17 g/kW-hr ⁴	Hourly	EU-BACKUPGEN	SC V.1, SC VI.2	40 CFR 52.21 (c) & (d)

II. MATERIAL LIMIT(S)

1. The permittee shall burn only diesel fuel, in FG-NSPSIII with the maximum sulfur content of 15 ppm (0.0015 percent) by weight, and a minimum Cetane index of 40 or a maximum aromatic content of 35 volume percent. ⁴ **(40 CFR 60.4207, 40 CFR 80.510(b))**

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall not operate EU-ENGINE4 for more than 2,720 hours per 12-month rolling time period as determined at the end of each calendar month. ⁴ **(R 336.1224, R 336.1225, 40 CFR 52.21(c) and (d))**
2. The permittee shall not operate EU-BACKUPGEN for more than 2,800 hours per 12-month rolling time period as determined at the end of each calendar month. ⁴ **(R 336.1224, R 336.1225, 40 CFR 52.21(c) and (d))**
3. The permittee shall install, maintain, and operate each engine in FG-NSPSIII according to the manufacturer written instructions, or procedures developed by the owner/operator and approved by the engine manufacturer, over the entire life of the engine. ⁴ **(40 CFR 60.4206, 40 CFR 60.4211(a))**
4. The permittee shall only operate EU-ENGINE4 for the purpose of providing operational support to EU-SHREDDER2. ⁴ **(R 336.1224, R 336.1225, R 336.1901, 40 CFR 52.21(c) and (d))**
5. If the permittee purchased a certified engine, according to procedures specified in 40 CFR Part 60, Subpart IIII, for the same model year, the permittee shall meet the following requirements for each certified engine in FG-NSPSIII:
 - a) Operate and maintain the certified engine and control device according to the manufacturer's emission-related written instructions.
 - b) Change only those emission-related settings that are permitted by the manufacturer.
 - c) Meet the requirements as specified in 40 CFR 89, 94 and/or 1068, as they apply to the engine.

If the permittee does not operate and maintain the certified engine and control device according to the manufacturer's emission-related written instructions, the engine will be considered a non-certified engine. ⁴ **(40 CFR 60.4211(a) and (c))**

6. If the permittee purchased a non-certified engine or a certified engine operating in a non-certified manner, the permittee shall keep a maintenance plan for each non-certified engine or certified engine operating in a non-certified manner in FG-NSPSIII and shall, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. ⁴ **(40 CFR 60.4211(g)(3))**

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall equip and maintain each engine in FG-NSPSIII with a non-resettable hours meter to track the operating hours. ⁴ **(R 336.1225, 40 CFR 60.4209)**
2. The maximum rated power output of EU-ENGINE4 shall not exceed 2,100 HP (1,566 kW), as certified by the equipment manufacturer. ⁴ **(40 CFR 60.4202, 40 CFR 89.112(a))**

3. The maximum rated power output of EU-BACKUPGEN shall not exceed 1,086.2 HP (810 kW), as certified by the equipment manufacturer. ⁴ **(40 CFR 60.4202, 40 CFR 89.112(a))**

V. TESTING/SAMPLING

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

1. If any engine in FG-NSPSIII is not installed, configured, operated, and maintained according to the manufacturer's emission-related written instructions, or the permittee changes emission-related settings in a way that is not permitted by the manufacturer, the permittee must demonstrate compliance as follows:
 - a) Conduct an initial performance test to demonstrate compliance with the applicable emission standards within one year of startup, or within one year after an engine and control device is no longer installed, configured, operated, and maintained in accordance with the manufacturer's emission-related written instructions, or within one year after you change emission-related settings in a way that is not permitted by the manufacturer.
 - b) If a performance test is required, the performance tests shall be conducted according to need to pick one or use both of the following requirements depending on the engine cylinder size.
 - c) Conduct subsequent performance testing every 8,760 hours of engine operation or every three years thereafter, whichever comes first, to demonstrate compliance with the applicable emission standards.

No less than 30 days prior to testing, a complete test plan shall be submitted to the AQD. 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. ⁴ **(40 CFR 60.4211(g)(1), (2), and (3), 40 CFR 60.4212)**

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 by the last day of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition. ⁴ **(R 336.2803, R 336.2804, 40 CFR 52.21 (c) and (d))**
2. The permittee shall keep, in a satisfactory manner, the following records for each engine in FG-NSPSIII:
 - a) For each certified engine: The permittee shall keep records of the manufacturer certification documentation.
 - b) For each uncertified engine: The permittee shall keep records of testing required in SC V.1.

The permittee shall keep all records on file and make them available to the Department upon request. ⁴ **(40 CFR 60.4211)**

3. The permittee shall keep, in a satisfactory manner, the following records of maintenance activity for each engine in FG-NSPSIII:
 - a) For each certified engine: The permittee shall keep records of the manufacturer's emission-related written instructions, and records demonstrating that the engine has been maintained according to those instructions, as specified in SC III.4.
 - b) For each uncertified engine: The permittee shall keep records of a maintenance plan, as required by SC III.5, and maintenance activities.

The permittee shall keep all records on file and make them available to the Department upon request. ⁴ **(40 CFR 60.4211)**

4. The permittee shall monitor in a satisfactory manner the hours of operation for each engine on a monthly and 12-month rolling time period basis. ⁴ **(R 336.1225, R 336.1702(a), R 336.2803, R 336.2804, 40 CFR 52.21 (c) and (d))**
5. The permittee shall keep, in a satisfactory manner, records of testing required in SC V.1 or manufacturer certification documentation indicating that each engine in FG-NSPSIII meets the applicable emission limitations contained in the federal Standards of Performance for New Stationary Sources 40 CFR Part 60 Subpart III. If any engine in FG-NSPSIII becomes uncertified then the permittee must also

keep records of a maintenance plan and maintenance activities. The permittee shall keep all records on file and make them available to the Department upon request. ⁴ **(40 CFR 60.4211(g))**

6. The permittee shall keep, in a satisfactory manner, fuel supplier certification records or fuel sample test data, for each delivery of diesel fuel used in FG-NSPSIII, demonstrating that the fuel meets the requirement of 40 CFR 80.510(b). The certification or test data shall include the name of the fuel supplier or laboratory, the sulfur content, and cetane index or aromatic content of the fuel. ⁴ **(40 CFR 60.4207(b), 40 CFR 80.510(b))**

VII. REPORTING

1. Within 30 days after completion of the installation, construction, reconstruction, relocation, or modification authorized by this Permit to Install, the permittee or the authorized agent pursuant to Rule 204, shall notify the AQD District Supervisor, in writing, of the completion of the activity. Completion of the installation, construction, reconstruction, relocation, or modification is considered to occur not later than commencement of trial operation of each engine in FG-NSPSIII. ⁴ **(R 336.1201(7)(a))**
2. The permittee shall submit a notification specifying whether each engine of FG-NSPSIII will be operated in a certified or a non-certified manner to the AQD District Supervisor, in writing, within 30 days following the initial startup of the engine and within 30 days of switching the manner of operation. ⁴ **(40 CFR Part 60, Subpart III)**

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-ENGINE4 ⁴	12	15	R 336.1225, 40 CFR 52.21 (c) & (d)
2. SV-BACKUPGEN ⁴	12	15	R 336.1225, 40 CFR 52.21 (c) & (d)

IX. OTHER REQUIREMENT(S)

1. The permittee shall comply with all applicable provisions of the New Source Performance Standards, as specified in 40 CFR Part 60, Subpart A and Subpart III, as they apply to FG-NSPSIII. ⁴ **(40 CFR Part 60 Subparts A and III, 60.4200)**
2. The permittee shall comply with all applicable provisions of the National Emission Standards for Hazardous Air Pollutants, as specified in 40 CFR Part 63, Subpart A and Subpart ZZZZ, as they apply to FG-NSPSIII. ⁴ **(40 CFR 63.6595, 40 CFR Part 63, Subparts A and ZZZZ)**

Footnotes:

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

² This condition is federally enforceable and was established pursuant to Rule 201(1)(a).

³ This condition applies until EU-SHREDDER2 shredder and EU-ENGINE4 are installed.

⁴ This condition applies on and after the installation of EU-SHREDDER2 shredder and EU-ENGINE4.

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

NA

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Monitoring / Testing Method	Underlying Applicable Requirements
1. Benzene (CAS No. 71-43-2)	0.15 tpy	12-month rolling time period as determined at the end of each calendar month	FGFACILITY	SC VI.2	R 336.1225(2)
2. PCBs (CAS No. 1336-36-3)	11.2 lb/yr	12-month rolling time period as determined at the end of each calendar month	FGFACILITY	SC VI.3	R 336.1225(2)
3. Hexavalent chromium (CAS No. 18540-29-9)	0.67 lb/yr	12-month rolling time period as determined at the end of each calendar month	FGFACILITY	SC VI.4	R 336.1225(2)

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

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))

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 by the last day of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition. (R 336.1205(3))
2. The permittee shall keep the following information on a monthly basis for FGFACILITY:
 - a) Tons of benzene (CAS No. 71-43-2) containing material processed.

- b) The benzene emission factor, in lbs benzene/ton of metal processed (using an emission factor of 4.00×10^{-4} lb benzene/ton of metal processed until the completion of a stack test, after which an emission factor based upon the most recent acceptable stack test shall be used. Alternatively, an emission factor acceptable to the AQD District Supervisor may be used).
- c) Benzene mass emission calculations determining the monthly emission rate in tons per calendar month.
- d) Benzene 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 using mass balance or an alternate method and format acceptable to the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request. **(R 336.1225(2))**

- 3. The permittee shall keep the following information on a monthly basis for FGFACILITY:
 - a) Tons of PCB (CAS No. 1336-36-3) containing material processed.
 - b) The PCB emission factor, in lbs PCB/ton of metal processed (using an emission factor of 8.73×10^{-5} lb PCB/ton of metal processed until the completion of a stack test, after which an emission factor based upon the most recent acceptable stack test shall be used. Alternatively, an emission factor acceptable to the AQD District Supervisor may be used).
 - c) PCB mass emission calculations determining the monthly emission rate in pounds per calendar month.
 - d) PCB 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 using mass balance or an alternate method and format acceptable to the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request. **(R 336.1225(2))**

- 4. The permittee shall keep the following information on a monthly basis for FGFACILITY:
 - a) Tons of hexavalent chromium (CAS No. 18540-29-9) containing material processed.
 - b) The Hexavalent chromium emission factor, in lbs hexavalent chromium/ton of metal processed (using an emission factor of 5.22×10^{-6} lb hexavalent chromium/ton of metal processed until the completion of a stack test, after which an emission factor based upon the most recent acceptable stack test shall be used. Alternatively, an emission factor acceptable to the AQD District Supervisor may be used).
 - c) Hexavalent chromium mass emission calculations determining the monthly emission rate in pounds per calendar month.
 - d) Hexavalent chromium 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 using mass balance or an alternate method and format acceptable to the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request. **(R 336.1225(2))**

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).
- ² This condition is federally enforceable and was established pursuant to Rule 201(1)(a).
- ³ This condition applies until EU-SHREDDER2 shredder and EU-ENGINE4 are installed.
- ⁴ This condition applies on and after the installation of EU-SHREDDER2 shredder and EU-ENGINE4.

APPENDIX A

Fugitive Dust Control Plan

I. Plant

The drop distance at each transfer point throughout the plant shall be reduced to the minimum the equipment can achieve.

II. Truck Traffic

On-site vehicles shall be loaded to prevent their contents from dropping, leaking, blowing or otherwise escaping. This shall be accomplished by loading so that no part of the load shall come in contact within six inches of the top of any sideboard, side panel or tailgate, otherwise, the truck shall be tarped.

III. Site Roadways and the Plant Yard

- a) The dust on the site roadways and the plant yard shall be controlled by applications of water, calcium chloride or other acceptable and approved fugitive dust control compounds. Applications of dust suppressants shall be done as often as necessary to meet an opacity limit of ten percent as determined by reference test method 9D.
- b) All paved roadways/plant yard shall be swept, as needed, between applications of dust suppressants.
- c) A record of all applications of dust suppressants, and roadway and the plant yard sweepings shall be kept on file for the most recent five-year period and be made available to the AQD upon request.

IV. Storage Piles

- a) Stockpiling of all nonmetallic materials shall be performed to minimize drop distance and control potential dust problems.
- b) Stockpiles shall be watered on an as needed basis in order to meet an opacity limit of ten percent as determined by reference test method 9D. Equipment to apply water or dust suppressant shall be available at the site, or on call for use at the site, within a given operating day.
- c) A record of all watering shall be kept on file for the most recent five-year period and be made available to the AQD upon request.

V. AQD/EGLE Inspection

The provisions and procedures of this plan are subject to adjustment by written notification from the AQD, if following an inspection, the AQD finds the fugitive dust requirements and/or the permitted opacity limits are not being met.