



3. Emissions and operation of the 3 internal combustion engines shall not exceed the following limits:

<u>Equipment</u>	<u>Fuel Oil Usage</u>		<u>Pollutant</u>	<u>Emission</u>	<u>Emissions</u>	
	<u>(Gal/Mo)</u>	<u>(Gal/Yr)</u>		<u>Factor</u>	<u>(Lb/Mo)</u>	<u>(Ton/Yr)</u>
3 Internal Combustion Engines (Total)	137,600	412,800	NO <sub>x</sub>	0.4385	60,338	90.51
			CO	0.1165	16,030	24.05
			SO <sub>2</sub>	0.0415	5,710	8.57
			PM	0.0137	1,885	2.83
			VOM	0.0123	1,692	2.54

These limits are based on AP-42 emission factors, maximum sulfur content of 0.3%, 7.1 lb/gallon density for diesel fuel, an average of 19,300 Btu/lb of diesel fuel and the information provided in the permit application. Compliance with annual limits shall be determined from a running total of 12 months of data.

4. This permit is issued based on negligible emissions of particulate matter (PM) from picking and conveying of material to be loaded into the shredder system. For this purpose emissions from each emission source, shall not exceed nominal emission rates of 0.1 lb/hour and 0.44 ton/yr.
- 5a. This permit is based on the use of water sprays on the shredder system to provide moisture that will reduce emissions of particulate matter.
- b. The Permittee shall maintain the water circulation pump(s) with hours meter(s) as required by the previously issued permit.
- c. Operation of the shredder will be allowed only when water pump(s) with water meters are in operation and operating correctly.
- d. The metal shredder shall not exceed 20% opacity pursuant to 35 Ill. Adm. Code 212.316(f).
6. Inspections of water spray equipment (e.g., leaks, adequate flow, freeze-up or clogged flow lines, condition and alignment of nozzles, etc.) shall be performed at least once per operating day.
7. The Permittee shall maintain an operating log for water spray equipment, including dates and times of inspections (with water pressure and observation), malfunction (type, cause and measures taken to correct) and maintenance and repair.
- 8a. Pursuant to 35 Ill. Adm. Code 212.316(c), the Permittee shall not cause or allow fugitive particulate matter emissions from any roadway or parking area at the source to exceed an opacity of 10 percent.
- b. Pursuant to 35 Ill. Adm. Code 212.316(d), the Permittee shall not cause or allow fugitive particulate matter emission from any storage pile to

exceed an opacity of 10 percent, to be measured four feet from the pile surface.

- c. Pursuant to 35 Ill. Adm. Code 212.316(g), the Permittee shall record and report the following information:
  - i. The Permittee shall keep written records of the application of control measures as may be needed for compliance with the opacity limitations as set forth in Condition 8(a) and (b) and shall submit to the Agency an annual report containing a summary of such information. The records required shall include at least the following:
    - A. The name and address of the source;
    - B. The name and address of the owner and/or operator of the source;
    - C. A map or diagram showing the location of all emission units controlled, including the location, identification, length and width of roadways;
    - D. For each application of water or chemical solution to roadways by truck: the name and location of the roadway controlled, application rate of each truck, frequency of each application, width of application, identification of each truck used, total quantity of water or chemical used for each application and, for each application of chemical solution, the concentration and identity of the chemical;
    - E. For application of physical or chemical control agents: the name of the agent, application rate and frequency, and total quantity of agent and, if diluted, percent of concentration, used each day; and
    - F. A log recording incidents when control measures were not used and a statement of explanation.
  - ii. Copies of all records required by this condition shall be submitted to the Agency within ten (10) working days after a written request by the Agency and shall be transmitted to the Agency by a company-designated person with authority to release such records.
  - iii. The records required by this condition shall be kept and maintained for at least three (3) years and shall be available for inspection and copying by Agency representatives during working hours.
  - iv. A quarterly report shall be submitted to the Agency stating the following:

- A. The dates any necessary control measures were not implemented, a listing of those control measures, the reasons that the control measures were not implemented, and any corrective actions taken. This information includes, but not limited to, those dates when controls were not applied based on a belief that application of such control measures would have been unreasonable given prevailing atmospheric conditions. This report shall be submitted to the Agency thirty (30) calendar days from the end of a quarter. Quarters end March 31, June 30, September 30, and December 31.
9. The Permittee shall, in accordance with the manufacturer(s) and/or vendor(s) recommendations, perform periodic maintenance on the pollution control equipment covered under this permit such that the pollution control equipment be kept in proper working condition and not cause a violation of the Environmental Protection Act or regulations promulgated therein.
10. The Permittee shall maintain records of the vendor recommendations at the facility and be available for inspection and copying by the Illinois EPA.
11. No person shall cause or allow any visible emissions of fugitive particulate matter from any process, including any material handling or storage activity beyond the property line of the emission source, pursuant to 35 Ill. Adm. Code 212.301.
12. In the event that the operation of this emission unit results in an odor nuisance, the Permittee shall take appropriate and necessary actions to minimize odors, including but not limited to, changes in raw material or installation of controls, in order to eliminate the odor nuisance.
13. The particulate matter concentration in the effluent stream of the shredder shall be measured by an approved independent testing service, within 90 days of a written request by the Agency for such a test. The Agency will require this test if, based on observations by field personnel, the shredder is not maintained or operated so as to demonstrate compliance with Section 212.321.
14. The Agency may require observations (with appropriate recordkeeping of wind direction, wind speed, etc.) conducted twice a day around the property line if, based on observations by field personnel, apparent violations of Section 212.301 occur.
15. The Permittee shall maintain the following records:
  - a. For the Internal Combustion engines the Permittee shall maintain the following records:
    - i. Total Hours of Operation (Hours/mo and Hours/yr);

- ii. Total Fuel Consumption (gal/mo and gal/yr); and
  - iii. Sulfur Content of the Fuel (%wt).
  - b. Hours of Operation of the Shredder System (Hours/day and Hours/yr);
  - c. Amount of material processed by the Shredder system (Tons/day and Tons/yr); and
  - d. Daily records of the water flow indicator inspection and maintenance.
16. All records and logs required by this permit shall be retained at a readily accessible location at the source for at least three years from the date of entry and shall be made available for inspection and copying by the Illinois EPA or USEPA upon request. Any records retained in an electronic format (e.g., computer) shall be capable of being retrieved and printed on paper during normal source office hours so as to be able to respond to an Illinois EPA or USEPA request for records during the course of a source inspection.
17. If there is an exceedance of the requirements of this permit as determined by the records required by this permit, the Permittee shall submit a report to the Illinois EPA's Compliance Section in Springfield, Illinois within 30 days after the exceedance. The report shall include the emissions released in accordance with the recordkeeping requirements, a copy of the relevant records, and a description of the exceedance or violation and efforts to reduce emissions and future occurrences.
18. Two (2) copies of required reports and notifications concerning equipment operation or repairs, performance testing or a continuous monitoring system shall be sent to:

Illinois Environmental Protection Agency  
Division of Air Pollution Control  
Compliance Section (#40)  
P.O. Box 19276  
Springfield, Illinois 62794-9276

and one (1) copy shall be sent to the Illinois EPA's regional office at the following address unless otherwise indicated:

Illinois Environmental Protection Agency  
Division of Air Pollution Control  
9511 West Harrison  
Des Plaines, Illinois 60016

19. The Permittee shall submit the following additional information with the Annual Emissions Report, due May 1st of each year:

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- a. Total fuel usage of the internal combustion (gallons/year); and
- b. Amount of material processed by the shredder system (tons/year).

If you have any questions on this, please call Eric Jones at 217/782-2113.

Donald E. Sutton, P.E.  
Manager, Permit Section  
Division of Air Pollution Control

DES:EEJ:psj

cc: Illinois EPA, FOS Region 1  
Illinois EPA, Compliance Section  
Lotus Notes

Attachment A - Emission Summary

This attachment provides a summary of the maximum emissions of the scrap processing facility operating in compliance with the requirements of this federally enforceable permit. In preparing this summary, the Agency used the annual operating scenario, which results in maximum emissions from such a plant. The maximum input rate for the shredder system at this plant is 100 tons/hour and the maximum fuel usage for the engines is 412,800 gallons/year. The resulting maximum emissions are well below the levels at which this source would be considered a major source for purposes of the Clean Air Act Permit Program. Actual emissions from this source will be less than predicted in this summary to the extent that less material is handled, and control measures are more effective than required in this permit.

1. Emissions and operation of the metal shredder system shall not exceed the following limits:

<u>Process</u>	<u>Maximum Input</u>		<u>PM Emissions</u>	
	<u>(Tons/Hr)</u>	<u>(Tons/Yr)</u>	<u>(Lb/Hr)</u>	<u>(Tons/Yr)</u>
Metal Shredder System	100	360,000	29.5	53.10

These limits are based on allowable emission rates of 35 Ill. Adm. Code 212.321, the maximum capacity of the unit, 3600 hours of operation and the information provided in the permit application. Compliance with annual limits shall be determined from a running total of 12 months of data.

2. Emissions and operation of the 3 internal combustion engines shall not exceed the following limits:

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