

- b. The following equation shall be used to determine compliance with the emission limitations of Condition 2a:

$$\frac{\text{VOM Emissions from Candy Glazing}}{\text{Glaze Usage in Gallons}} = \frac{\text{VOM Content (Lb / Gal)}}{\text{Glaze Usage in Gallons}} \times \left(1 - \frac{\text{Overall Control Efficiency}}{\text{Glaze Usage in Gallons}} \right)$$

- c. For the purposes of determining compliance with the emission limitations of Condition 2a, an 81% overall control efficiency shall be assumed when the afterburner is in use.
3. Pursuant to 35 Ill. Adm. Code 218.986, the catalytic afterburner shall be designed and operated to provide at least 81% overall control efficiency.
- 4a. Pursuant to 35 Ill. Adm. Code 218.107, operation of the catalytic afterburner is not required during the period of November 1 of any year to April 1 of the following year provided that:
- i. An ozone advisory, alert or emergency has not been declared pursuant to 35 Ill. Adm. Code 244.
 - ii. The device is not required for the purposes of occupational safety or health, for the control of toxic substances, or for the control of odor.
 - iii. The device is not necessary to comply with the emission limitations in Condition 2a.
- b. During all other times, the catalytic afterburner shall be in operation at all times the candy glazing line is in operation and emitting air contaminants.
- 5a. The afterburner combustion chamber shall be preheated to at least the manufacturer's recommended temperature but no less than the temperature at which compliance was demonstrated in the most recent compliance test. This temperature shall be maintained during operation.
- b. The afterburner shall be equipped with a continuous monitoring device which is installed, calibrated, maintained, and operated according to vendor's specification at all times that the afterburner is in use. This device shall monitor the afterburner combustion chamber temperature.
6. This permit is issued based on negligible emissions of particulate matter from the sugar storage silos and the slurry mixing tanks. For this purpose, emissions shall not exceed nominal emission rates of 0.1 lb/hour and 0.44 ton/year each.

7. Emissions and operations of the two boilers shall not exceed the following limits:

<u>Item of Equipment</u>	<u>Firing Rate (mmBtu/Hr)</u>	<u>NO_x Emissions</u>		<u>CO Emissions</u>	
		<u>(Lb/Hr)</u>	<u>(Ton/Yr)</u>	<u>(Lb/Hr)</u>	<u>(Ton/Yr)</u>
Boiler #1	9.5	0.95	4.2	0.78	3.4
Boiler #2	10.37	1.0	4.4	0.85	3.7

These limits are based on the maximum firing rate of the boilers indicated in the permit application and AP-42 emission factors for the combustion of natural gas. Compliance with annual limits shall be determined from a running total of 12 months of data.

8. Emissions and operations of the mogul and the dryer/cooler shall not exceed the following limits:

<u>Item of Equipment</u>	<u>Process Weight (Lb/Hr)</u>	<u>Required Control</u>	<u>Emissions</u>	
			<u>(Lb/Hr)</u>	<u>(Ton/Yr)</u>
Mogul	24,000	Baghouse	1	4.4
Dryer/Cooler	24,000	Baghouse 2 Cyclones	1	4.4

These limits are based on the maximum process weight rate indicated in the permit application, a baghouse overall control efficiency of 99%, and AP-42 emission factors for starch handling. Annual limits are based on 8,760 operating hours per year. Compliance with annual limits shall be determined from a running total of 12 months of data.

9. The Permittee shall collect and record the following information each day with respect to the catalytic afterburner:
- a. Afterburner combustion chamber monitoring data.
 - b. A log of operating time for the capture system, afterburner, monitoring device, and the associated emission unit(s).
 - c. A maintenance log for the capture system, afterburner, and monitoring device detailing all routine and non-routine maintenance performed including the dates and duration of any outages.
10. In addition, the Permittee shall maintain monthly records of the following items:
- a. Usage of candy glaze (gallon/month and gallon/year).

- b. The VOM content of each candy glaze applied on the candy glaze line (lb/gallon).
 - c. Emissions of VOM from the candy glazing line as calculated by the equation in Condition 2b (ton/month and ton/year).
 - d. Average process weight rate of the mogul and the dryer/cooler (lb/hour).
 - e. Natural gas usage (mmscf/month and mmscf/year).
11. 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.
12. 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.
13. 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
Eisenhower Tower
1701 South First Avenue
Maywood, Illinois 60153

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14. Annual emissions of regulated air pollutants shall not exceed 50.3 tons, which shall be the permitted emissions for this site.

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

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

DES:NAF: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 from the Confectionery Manufacturer operating in compliance with the requirements of this federally enforceable permit. In preparing this summary, the Illinois EPA used the annual operating scenario which results in maximum emissions from such a plant. The resulting maximum emissions are well below the levels, e.g., 25 tons per year of VOM, 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.

- Usage of candy glaze and emissions of VOM from the candy glazing operation shall not exceed the following limits:

<u>Candy Glaze Usage</u> <u>(Gal/Mo)</u>	<u>Candy Glaze Usage</u> <u>(Gal/Yr)</u>	<u>VOM Content</u> <u>(Lb/Gal)</u>	<u>Pollution Control</u> <u>Equipment</u>	<u>VOM Emissions</u> <u>(Ton/Mo)</u>	<u>VOM Emissions</u> <u>(Ton/Yr)</u>
7,000	43,800	4.79	Catalytic Afterburner	3.3	24

- This permit is issued based on negligible emissions of particulate matter from the sugar storage silos and the slurry mixing tanks. For this purpose, emissions shall not exceed nominal emission rates of 0.1 lb/hour and 0.44 ton/year each.

- Emissions and operations of the two boilers shall not exceed the following limits:

<u>Item of</u> <u>Equipment</u>	<u>Firing Rate</u> <u>(mmBtu/Hr)</u>	<u>NO_x Emissions</u> <u>(Lb/Hr) (Ton/Yr)</u>		<u>CO Emissions</u> <u>(Lb/Hr) (Ton/Yr)</u>	
Boiler #1	9.5	0.95	4.2	0.78	3.4
Boiler #2	10.37	1.0	4.4	0.85	3.7

- Emissions and operations of the mogul and the dryer/cooler shall not exceed the following limits:

<u>Item of Equipment</u>	<u>Process Weight</u> <u>(Lb/Hr)</u>	<u>Required</u> <u>Control</u>	<u>Emissions</u> <u>(Lb/Hr) (Ton/Yr)</u>	
Mogul	24,000	Baghouse	1	4.4
Dryer/Cooler	24,000	Baghouse 2 Cyclones	1	4.4

NAF:psj