

217/782-2113

FEDERALLY ENFORCEABLE STATE OPERATING PERMIT

PERMITTEE

World's Finest Chocolate, Inc.
Attn: Leonard T. Serwecinski
4801 South Lawndale Avenue
Chicago, Illinois 60632-3062

Application No.: 82050049

I.D. No.: 031600BUS

Applicant's Designation:

Date Received: April 16, 1998

Subject: Chocolate Processing Facility

Date Issued:

Expiration Date:

Location: 4801 South Lawndale Avenue, Chicago, IL 60632-3062

This permit is hereby granted to the above-designated Permittee to OPERATE emission unit(s) and/or air pollution control equipment consisting of gas-fired boilers; cocoa nib (shelled cocoa beans) roaster; cocoa bean heater (micronizer); cocoa bean receiving, cleaning and storage; cocoa bean conveying, weighing and destoning; cocoa bean heating, breaking and winnowing; cocoa nib conveying, roasting and cooling; and sugar and milk powder storage and handling pursuant to the above-referenced application. This Permit is subject to standard conditions attached hereto and the following special condition(s):

- 1a. This federally enforceable state operating permit is issued to limit the emissions of air pollutants from the source to less than major source thresholds (i.e., PM₁₀ to less than 100 tons per year, VOM to less than 25 tons per year). As a result the source is excluded from the requirement to obtain a Clean Air Act Permit Program (CAAPP) permit. The maximum emissions of this source, as limited by the conditions of this permit, are described in Attachment A.
 - b. Prior to issuance, a draft of this permit has undergone a public notice and comment period.
 - c. This permit supersedes all operating permits issued for this location.
2. The operations and emissions from this source shall not exceed the following limits:

Cocoa Bean Throughput		E M I S S I O N S			
		PM ₁₀		VOM	
<u>(Ton/Mo)</u>	<u>(Ton/Yr)</u>	<u>(Ton/Mo)</u>	<u>(Ton/Yr)</u>	<u>(Ton/Mo)</u>	<u>(Ton/Yr)</u>
1,600	16,000	1.78	17.8	1.60	16.0

These limits are based on the maximum production and operation of the equipment as described in the application, a VOM emission factor of 2.0 lb VOM per ton cocoa bean, maximum exhaust flow rates and 0.020 gr/dscf or less baghouse control. Compliance with annual limits shall be determined from a running total of 12 months of data.

3. The Permittee shall maintain records of the following items on at least a monthly basis:
 - a. Cocoa bean throughput (ton/month and ton/year); and
 - b. Natural gas usage (scf/month and scf/year).
4. 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.
5. 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.
6. 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.
7. 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

8. The Permittee shall submit the following additional information with the Annual Emissions Report, due May 1st of each year: cocoa bean throughput and natural gas usage.

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

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

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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 chocolate processing sources 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, 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. PM₁₀ Emissions

Equipment	SCFM To Control Unit	Grain/scf in Stream or *Total Lb/Hr	PM-10 Emissions	
			(Lb/Hr)	(Tons/Yr)
Blender CP4C, Bag Fill CP40 Tote Fill CP4A Breakers CP1M, CP2M & CP3M	3,000	0.020	0.51	1.03
Receiver 100 & Prime Destoner	4,200	0.020	0.72	1.44
Destoner Secondary RD3-1	2,224	0.020	0.38	0.76
Micronizer Vent to Atoms Infrared Heating of Beans	3,600	0.001	0.03	0.06
Top Section of RW-1 Winnowing	4,942	0.020	0.85	1.69
RW-1, Conveyors, Shells From RMDC-1 and RWDC-1	8,600	0.020 * 625 99.72%	1.75	3.50
RT-1 During Roast Cycle	2,400	0.001	0.02	0.04
NH-2 NIB Cooler	8,131	0.001	0.07	0.14
RTMC/RT-1 During Cooling Cyc	15,000	0.001	0.13	0.26
RT-302 NIB Receiver	1,545	0.020	0.26	0.53
BD401 Pump Station/Baghouse	1,200	* 60 99.50%	0.30	0.60
BD 404 and Cyclone 414	1,060	* 120 99.00%	1.20	2.40
Cocoa Blender & Cyclone 414	1,050	* 75 99.00%	0.75	1.50
Cyclone 464/Sifter 462/Dump Station 459/Surge 500	1,070	0.020	0.18	0.37
Silos 61,62, 63, 64 & Receivers	5,710	0.020	0.98	1.96
Silo 400 for Sugar	2,150	0.020	0.37	0.74
Receiver 501	750	0.020	0.13	0.26
Airvey Hopper for 501	1,060	0.020	0.18	0.36
			Subtotal	
				17.64
			Natural Gas Combustion:	
				0.95
			Total	
				18.59

2. VOM Emissions

Cocoa Bean Throughput		Emission Factor	VOM Emissions	
<u>(Ton/Month)</u>	<u>(Ton/Year)</u>	<u>(Lb VOM/Ton)</u>	<u>(Ton/Month)</u>	<u>(Ton/Year)</u>
1,600	16,000	2.0	1.60	16.0

3. Natural Gas Usage

<u>(Therms)</u>	<u>NO_x</u>		<u>CO</u>		<u>PM-10</u>		<u>VOM</u>	
	<u>(Lb/Mo)</u>	<u>(T/Yr)</u>	<u>(Lb/Mo)</u>	<u>(T/Yr)</u>	<u>(Lb/Mo)</u>	<u>(T/Yr)</u>	<u>(Lb/Mo)</u>	<u>(T/Yr)</u>
1,500,000	2,307	13.84	1,350	8.10	158	0.95	102	0.61

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