

217/782-2113

FEDERALLY ENFORCEABLE STATE OPERATING PERMIT

PERMITTEE

Nestle Food Company - Franklin Park  
Attn: William Monge  
3401 Mt. Prospect Road  
Franklin Park, Illinois 60131

<u>Application No.:</u> 96030074	<u>I.D. No.:</u> 031096AAB
<u>Applicant's Designation:</u>	<u>Date Received:</u> March 6, 1996
<u>Subject:</u> Confection Manufacturing Plant	
<u>Date Issued:</u> November 14, 2000	<u>Expiration Date:</u> November 14, 2005
<u>Location:</u> 3401 Mt. Prospect Road, Franklin Park	

This permit is hereby granted to the above-designated Permittee to OPERATE emission unit(s) and/or air pollution control equipment consisting of:

Two natural gas fired boilers;

Bulk sugar receiving/conveying system comprised of two storage silos and pneumatic conveyors controlled by baghouse;

Peanuts receiving/handling system controlled by cyclone/baghouse;

Compound coating production line comprised of sugar receiver, sugar mill, dry ingredients dump station and six mixers controlled by baghouse;

Product #1 Line comprised of:

sugar receiving/handling system controlled by cyclone/baghouse,  
peanuts receiving/handling system controlled by filters,  
peanuts dry roaster controlled by cyclone,  
peanuts mill and mixer controlled by dust collector;

Product #2 Line comprised of:

sugar receiving system controlled by cyclone/baghouse,  
dry ingredients dump station controlled by dust collector,  
four ingredients mixing tanks,  
peanuts receiving/handling system controlled by filter,  
peanut oil roaster;

Product #3 Line comprised of:

sugar receiving station controlled by dust collector,  
sugar glazing operations controlled by dust collector,  
candy polishing pan;

Product #4 Line comprised of:

sugar receiving station controlled by bulk sugar receiving baghouse,  
 two ingredients dump stations,  
 two ingredients dump stations controlled by dust collector,  
 one ingredients mixer,  
 two product caramelizers

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., 25 tons/year for volatile organic material (VOM)). As a result, the source is excluded from the requirements 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 for this location.
- 2. Operation and natural gas combustion emissions of two boilers and peanut roaster shall not exceed the following limits:

Natural Gas Consumption: 80 mmscf/mo, 800 mmscf/yr

<u>Pollutant</u>	<u>Emission Factor (Lb/mmscf)</u>	<u>Emissions</u>	
		<u>(Ton/Mo)</u>	<u>(Ton/Yr)</u>
Nitrogen Oxide (NO <sub>x</sub> )	100	4.0	40.0
Carbon Monoxide (CO)	84	3.4	33.6
Particulate Matter (PM)	7.6	0.3	3.0
Volatile Organic Material (VOM)	5.5	0.2	2.2

These limits are based on the maximum operating rate and standard emission factors given by AP-42. Compliance with annual limits shall be determined on a monthly basis from a running total of 12 months of data.

- 3a. Operations and VOM emissions of Products #1 and #2 peanuts roasters shall not exceed the following limits:

<u>Item of Equipment</u>	<u>Peanuts Throughput</u>		<u>Emission Factor (Lb/Ton)</u>	<u>VOM Emissions</u>	
	<u>(Ton/Mo)</u>	<u>(Ton/Yr)</u>		<u>(Ton/Mo)</u>	<u>(Ton/Yr)</u>
Dry Roaster	2,000	19,000	0.86	0.9	8.2
Oil Roaster	2,000	20,000	0.085	0.1	0.8
				Total	9.0

- b. Product #3 polishing operations and VOM emissions shall not exceed the following limits:

Polishing Glaze Usage		VOM Content	VOM Emissions	
(Ton/Mo)	(Ton/Yr)	(Wt.%)	(Ton/Mo)	(Ton/Yr)
1.5	15	59	0.9	8.9

4. Operations and VOM emissions of Product #4 caramelizer shall not exceed the following limits:

Ingredients	Ingredients Usage		VOM Content	VOM Emissions	
	(Ton/Mo)	(Ton/Yr)	(Wt.%)	(Ton/Mo)	(Ton/Yr)
High-VOM	0.1	0.6	95	0.1	0.6
Low-VOM	1.5	14.2	8	0.1	0.1
				Total	0.7

These limits define the potential emissions of the VOM and are based on the maximum actual emissions determined from the maximum production capacity, the highest VOM content in the raw materials and standard emission factors given by AP-42 (T. 9.13.2-2 SCC 3-02-002-20, 9.13.3-3 SCC 3-02-036-02). Compliance with annual limits shall be determined on a monthly basis from the sum of the data for the current month plus the preceding 11 months.

5. Operations and particulate matter (PM) emissions of Products #1 and #2 peanut roasters shall not exceed the following limits:

Item of Equipment	Peanuts Throughput		Emission Factor	Control Effic.	PM Emissions	
	(Ton/Mo)	(Ton/Yr)	(Lb/Ton)	(%)	(Ton/Mo)	(Ton/Yr)
Dry Roaster	2,000	19,000	0.66	80	0.1	1.3
Oil Roaster	2,000	20,000	0.4	B-	0.4	4.0

These limits are based on the maximum production capacity and standard emission factors given by AP-42 (T. 9.13.2-1, SCC 3-02-002-21; 9.13.3-2, SCC 3-02-036-02). Compliance with annual limits shall be determined on a monthly basis from a running total of 12 months of data.

6. This permit is issued based on negligible emissions of particulate matter from the following emission units and operations:

Bulk sugar receiving/conveying system;  
 Peanuts receiving/handling system;  
 Compound coating production line;  
Product #1 Line  
     sugar receiving/handling system,  
     peanuts receiving/handling system,  
     peanuts mill and mixer;

Product #2 Line

sugar receiving system,  
dry ingredients dump station,  
four ingredients mixing tanks,  
peanuts receiving/handling system;

Product #3 Line

sugar receiving station,  
sugar glazing operations;

Product #4 Line

sugar receiving station,  
four ingredients dump stations,  
one ingredients mixer.

For this purpose emissions from each emission source shall not exceed nominal emission rate of 0.1 lb/hour and 0.44 ton/year.

7. The Permittee shall maintain monthly records of the following items:
  - a. Dry and oil peanut roaster throughputs (tons/mo, tons/yr);
  - b. Names and amounts of VOM containing ingredients used (tons/mo) and their VOM content (wt.%);
  - c. Polishing glaze usage (tons/mo, tons/yr) and its VOM content (wt.%);
  - d. Natural gas consumption (mmscf/mo);
  - e. VOM emission calculations (tons/mo, tons/yr).
8. 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 and 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 the Illinois EPA or USEPA request for records during the course of a source inspection.
9. 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, a description of the exceedances or violation, and efforts to reduce emissions and future occurrences.
10. 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 Illinois EPA  
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 Illinois EPA  
Division of Air Pollution Control  
9511 West Harrison  
Des Plaines, Illinois 60016

11. The Permittee shall submit the following additional information with the Annual Emission Report, due May 1st of each year: peanuts throughput, VOM containing raw materials and natural gas usage from the prior calendar year.

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

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

DES:VJB:psj

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

Attachment A - Emissions Summary

This attachment provides a summary of the maximum emission from the Confection Manufacturing Plant 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 material is handled, and control measures are more effective than required in this permit.

1. Operation and natural gas combustion emissions of two boilers and peanuts roaster shall not exceed the following limits:

Natural Gas Consumption: 80 mmscf/mo, 800 mmscf/yr

<u>Pollutant</u>	<u>Emission Factor (Lb/mmscf)</u>	<u>Emissions</u>	
		<u>(Ton/Mo)</u>	<u>(Ton/Yr)</u>
Nitrogen Oxide (NO <sub>x</sub> )	100	4.0	40.0
Carbon Monoxide (CO)	84	3.4	33.6
Particulate Matter (PM)	7.6	0.3	3.0
Volatile Organic Material (VOM)	5.5	0.2	2.2

- 2a. Operations and VOM emissions of Products #1 and #2 peanuts roasters shall not exceed the following limits:

<u>Item of Equipment</u>	<u>Peanuts Throughput</u>		<u>Emission Factor (Lb/Ton)</u>	<u>VOM Emissions</u>	
	<u>(Ton/Mo)</u>	<u>(Ton/Yr)</u>		<u>(Ton/Mo)</u>	<u>(Ton/Yr)</u>
Dry Roaster	2,000	19,000	0.86	0.9	8.2
Oil Roaster	2,000	20,000	0.085	0.1	<u>0.8</u>
				Total	9.0

- b. Product #3 polishing operations and VOM emissions shall not exceed the following limits:

<u>Polishing Glaze Usage</u>		<u>VOM Content (Wt.%)</u>	<u>VOM Emissions</u>	
<u>(Ton/Mo)</u>	<u>(Ton/Yr)</u>		<u>(Ton/Mo)</u>	<u>(Ton/Yr)</u>
1.5	15	59	0.9	8.9

3. Operations and VOM emissions of Product #4 caramelizer shall not exceed the following limits:

<u>Ingredients</u>	<u>Ingredients Usage</u>		<u>VOM Content (Wt.%)</u>	<u>VOM Emissions</u>	
	<u>(Ton/Mo)</u>	<u>(Ton/Yr)</u>		<u>(Ton/Mo)</u>	<u>(Ton/Yr)</u>
High-VOM	0.1	0.6	95	0.1	0.6
Low-VOM	1.5	14.2	8	0.1	<u>0.1</u>
				Total	0.7

4. Operations and particulate matter (PM) emissions of Products #1 and #2 peanuts roasters shall not exceed the following limits:

<u>Item of Equipment</u>	<u>Peanuts Throughput</u>		<u>Emission Factor</u>	<u>Control Effic.</u>	<u>PM Emissions</u>	
	<u>(Ton/Mo)</u>	<u>(Ton/Yr)</u>	<u>(Lb/Ton)</u>	<u>(%)</u>	<u>(Ton/Mo)</u>	<u>(Ton/Yr)</u>
Dry Roaster	2,000	19,000	0.66	80	0.1	1.3
Oil Roaster	2,000	20,000	0.4	B-	0.4	4.0

5. This permit is issued based on negligible emissions of particulate matter from the following emission units and operations:

Bulk sugar receiving/conveying system;  
 Peanuts receiving/handling system;  
 Compound coating production line;  
Product #1 Line  
     sugar receiving/handling system,  
     peanuts receiving/handling system,  
     peanuts mill and mixer;  
Product #2 Line  
     sugar receiving system,  
     dry ingredients dump station,  
     four ingredients mixing tanks,  
     peanuts receiving/handling system;  
Product #3 Line  
     sugar receiving station,  
     sugar glazing operations;  
Product #4 Line  
     sugar receiving station,  
     four ingredients dump stations,  
     one ingredients mixer.

For this purpose emissions from each emission source shall not exceed nominal emission rate of 0.1 lb/hour and 0.44 ton/year.