

217/782-2113

FEDERALLY ENFORCEABLE STATE OPERATING PERMIT

PERMITTEE

Tootsie Roll Industries, Inc.  
Attn: James A. Smentek  
7401 South Cicero Avenue  
Chicago, Illinois 60629

Application No.: 74010025

I.D. No.: 031600EKR

Applicant's Designation:

Date Received: November 1, 2000

Subject: Candy Manufacturing

Date Issued: May 15, 2007

Expiration Date: May 15, 2012

Location: 7401 South Cicero Avenue, Chicago, 60629

This permit is hereby granted to the above-designated Permittee to OPERATE emission source(s) and/or air pollution control equipment consisting of equipment itemized in Attachment B 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:
  - i. To limit the emissions of air pollutants from the source to less than major source thresholds (i.e., 10 tons/year for any individual Hazardous Air Pollutant (HAP), and 25 tons/year of any combination of such HAPs). 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.
  - ii. To limit the potential emissions of VOM from the source to less than 25 tons/year. As a result, the source is excluded from the requirement of 35 Ill. Adm. Code Part 205, Emission Reduction Market System. The maximum emissions of this source, as limited by the conditions of this permit, are described in Attachment A.
  - iii. This permit is issued based upon the plant not being subject to the requirements of 35 Ill. Adm. Code Section 218, Subpart TT, Other Emission Units. Hence, control requirements of Section 218.986 do not apply. This is consequence of the federally enforceable production and operating limitations, which restrict the Potential to Emit (PTE) for volatile organic materials (VOM) to less than 25 tons/year.
- b. Prior to issuance, a draft of this permit has undergone a public notice and comment period.
- c. This permit supersedes all operating permit(s) for this location.

- 2a. Pursuant to 35 Ill. Adm. Code 212.123(a), no person shall cause or allow the emission of smoke or other particulate matter, with an opacity greater than 30 percent, into the atmosphere from any emission unit other than those emission units subject to the requirements of 35 IAC 212.122, except as allowed by 35 IAC 212.123(b) and 212.124.
- b. Pursuant to 35 Ill. Adm. Code 212.321, no person shall cause or allow the emission of PM into the atmosphere in any one hour period from any new process emission unit which, either alone or in combination with the emission of PM from all other similar process emission units for which construction or modification commenced on or after April 14, 1972, to exceed the allowable emission rate specified in 35 Ill. Adm. Code 212.321(c).
- 3a. Pursuant to 35 Ill. Adm. Code 218.301, no person shall cause or allow the discharge of more than 3.6 kg/hour (8 lbs/hour) of organic material into the atmosphere from any emission source, except as provided in 35 Ill. Adm. Code 218.302, 218.303, 218.304 and the following exception: If no odor nuisance exists the limitation of 35 Ill. Adm. Code 218 Subpart G: Use of Organic Material, shall apply only to photochemically reactive material.
- b. 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.
- 4a. The Vortex Dryer Dust Collectors and Flex-Kleen baghouse dust collectors shall be operated at all time in which the NID Starch-Gumdrop Deposition equipment is operated.
- b. The Griffin baghouse shall be operated at all times in which the Makat Starch-Gumdrop Deposition equipment is operated.
- c. Natural gas shall be the only fuel fired in the fuel combustion equipment at this source. Use of any other fuel requires a construction permit for such modification.
- 5a. Emissions and operation of the new (Makat) starch-gumdrop deposition line shall not exceed the following limits:

<u>Mould Starch Throughput</u>		<u>Particulate Matter (PM) Emissions</u>	
<u>(Tons/Month)</u>	<u>(Tons/Year)</u>	<u>(Tons/Month)</u>	<u>(Tons/Year)</u>
23,000	185,000	0.29	2.28

These limits are based on the maximum mould starch throughput rate (21.12 tons/hour), maximum operating time (8,760 hours/year), and the submitted, maximum PM emission rate (0.52 lbs/hour).

- b. Emissions and operation of the original (NID) starch-gumdrop deposition line shall not exceed the following limits:

<u>Mould Starch Throughput</u>		<u>Particulate Matter (PM) Emissions</u>	
<u>(Tons/Month)</u>	<u>(Tons/Year)</u>	<u>(Tons/Month)</u>	<u>(Tons/Year)</u>
9,100	73,000	0.83	6.57

These limits are based on the maximum mould starch throughput rate (8.3 tons/hour), maximum operating time (8,760 hours/year), and the submitted, maximum PM emission rate (1.5 lbs/hour).

- c. Emissions and operation of the four mixing kettles (combined) shall not exceed the following limits:

<u>Candy Production</u>		<u>Particulate Matter (PM) Emissions</u>	
<u>(Tons/Month)</u>	<u>(Tons/Year)</u>	<u>(Tons/Month)</u>	<u>(Tons/Year)</u>
8,750	70,000	0.20	1.54

These limits are based on the maximum candy production rate (7.9 tons/hour), maximum operating time (8,760 hours/year), and the submitted, maximum PM emission rate (0.35 lbs/hour).

- d. This permit is issued based upon negligible emissions of particulate matter emissions from the reclaim operations. For this purpose, emissions of PM shall not exceed nominal emission rates of 0.1 lb/hour and 0.44 tons/year.
- e. Emissions and operation of the natural gas-fired equipment (combined) shall not exceed the following limits:

<u>Natural Gas Usage</u>	
<u>(mmscf/Month)</u>	<u>(mmscf/Year)</u>
50	400*

\* 1 mmscf = 10,200 therms

<u>Pollutant</u>	<u>Emission Factor</u> <u>(Lbs/mmscf)</u>	<u>Emissions</u>	
		<u>(Tons/Month)</u>	<u>(Tons/Year)</u>
Nitrogen Oxides (NO <sub>x</sub> )	100	2.5	20.0
Carbon Monoxide (CO)	84	2.1	16.8
Particulate Matter (PM)	7.6	0.2	1.6
Volatile Organic Material (VOM)	5.5	0.2	1.1

These limits are based on maximum natural gas usage and standard, AP-42 emission factors from Tables 1.4-1 and 1.4-2.

- f. The above limitations were established in Permit 06020121, pursuant to 35 Ill. Adm. Code Part 203, Major Stationary Sources Construction and Modification and 40 CFR 52.21, Prevention of Significant Deterioration (PSD). These limits ensure that the construction and/or modification addressed in the aforementioned permit does not constitute a new major source or major modification pursuant to Title I of the Clean Air Act, specifically 35 Ill. Adm. Code Part 203, Major Stationary Sources

Construction and Modification and the federal rules for Prevention of Significant Deterioration (PSD), 40 CFR 52.21.

- 6a. Emissions from the usage of Flavor Additives shall not exceed the following limits:

<u>Flavor Material</u>	<u>Maximum Usage Rate (1000 Lbs/Mo)</u>	<u>Usage Rate (1000 Lbs/Yr)</u>	<u>VOM Emission Factor (Lbs VOM/Lbs Flavor)</u>	<u>VOM Emissions (Lbs/Mo)</u>	<u>VOM Emissions (Tons/Yr)</u>
BP	15.0	120	0.04	600	2.40
RH	27.5	220	0.15	4,125	16.50
Mason	11.3	90	0.0924	1,040	4.16
				Total	23.06

These limits are based on the maximum usage rates, maximum operating time (8,760 hours/year), and the submitted maximum VOM emission rates.

- b. Operations of the reclaim operation shall not exceed the following limits:

<u>Equipment</u>	<u>Maximum Operating Rate (mmlbs/Mo)</u>	<u>Operating Rate (mmlbs/Yr)</u>	<u>VOM Emission Factor (Lbs VOM/mmlb Remelt)</u>	<u>VOM Emissions (Lbs/Mo)</u>	<u>VOM Emissions (Tons/Yr)</u>
Reclaim Operation	0.75	6.0	107	80	0.32

These limits are based on the maximum operating rates, maximum operating time (8,760 hours/year), and the submitted maximum VOM emission rates.

- c. Note that there is a "nested" limit on the emissions of the combination of HAPs as a result of the limit on VOM emissions. The HAPs emitted at this source have been determined to be VOMs and therefore limiting VOM emissions also limits HAP emissions.
7. The emissions of Hazardous Air Pollutants (HAPs) as listed in Section 112(b) of the Clean Air Act shall not equal or exceed 10 tons per year of any single HAP or 25 tons per year of any combination of such HAPs, or such lesser quantity as USEPA may establish in rule which would require the Permittee to obtain a CAAPP permit from the Illinois EPA. As a result of this condition, this permit is issued based on the emissions of any HAP from this source not triggering the requirement to obtain a CAAPP permit from the Illinois EPA.
8. Compliance with the annual limits of this permit shall be determined on a monthly basis from the sum of the data for the current month plus the preceding 11 months (running 12 month total).
- 9a. Pursuant to 40 CFR 63.10(b)(3), if an owner or operator determines that his or her stationary source that emits (or has the potential to emit, without considering controls) one or more hazardous air pollutants regulated by any standard established pursuant to section 112(d) or (f) of the Clean Air Act, and that stationary source is in the source category regulated by the relevant standard, but that source is not

subject to the relevant standard (or other requirement established under 40 CFR Part 63) because of limitations on the source's potential to emit or an exclusion, the owner or operator must keep a record of the applicability determination on site at the source for a period of 5 years after the determination, or until the source changes its operations to become an affected source, whichever comes first. The record of the applicability determination must be signed by the person making the determination and include an analysis (or other information) that demonstrates why the owner or operator believes the source is unaffected (e.g., because the source is an area source). The analysis (or other information) must be sufficiently detailed to allow the USEPA and/or Illinois EPA to make a finding about the source's applicability status with regard to the relevant standard or other requirement. If relevant, the analysis must be performed in accordance with requirements established in relevant subparts of 40 CFR Part 63 for this purpose for particular categories of stationary sources. If relevant, the analysis should be performed in accordance with USEPA guidance materials published to assist sources in making applicability determinations under Section 112 of the Clean Air Act, if any. The requirements to determine applicability of a standard under 40 CFR 63.1(b)(3) and to record the results of that determination under 40 CFR 63.10(b)(3) shall not by themselves create an obligation for the owner or operator to obtain a Title V permit.

- b. The Permittee shall maintain records of the following items so as to demonstrate compliance with the conditions of this permit:
  - i. Records addressing use of good operating practices for the control equipment:
    - A. Records for periodic inspection of the control equipment with date, individual performing the inspection, and nature of inspection; and
    - B. Records for prompt repair of defects, with identification and description of defect, effect on emissions, date identified, date repaired, and nature of repair.
  - ii. The name and identification number, usage, and VOM content (minus water and any compounds which are specifically exempted from the definition of VOM) of each VOM containing material used (lbs/month and tons/year, weight %;
  - iii. The throughput of the NID Starch-Gumdrop Deposition operation, Makat Starch-Gumdrop Deposition operation, Mixing Kettle operation, and Reclaim Melt Kettle operation, (tons/month and tons/year);
  - iv. Natural gas fuel usage (mmscf/month and mmscf/year); and
  - v. Monthly and Annual emissions of CO, NO<sub>x</sub>, PM, SO<sub>2</sub>, VOM and HAP from the source with supporting calculations (tons/month and tons/year).

- c. All records and logs required by this permit shall be retained at a readily accessible location at the source for at least five (5) 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.
- 10. If there is an exceedance of or a deviation from 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/deviation. 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 deviation and efforts to reduce emissions and future occurrences.
- 11. Two (2) copies of required reports and notifications 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

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

Edwin C. Bakowski, P.E.  
Acting Manager, Permit Section  
Division of Air Pollution Control

ECB:ELK:psj

cc: Illinois EPA, FOS Region 1  
Lotus Notes

Attachment A - Emission Summary

This attachment provides a summary of the maximum emissions from the candy manufacturing facility 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., 100 tons per year of VOM, 100 ton per year of particulate matter less than 10 microns in diameter (PM<sub>10</sub>), 10 tons per year for a single HAP, and 25 tons per year for totaled HAP) 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.

<u>Emission Unit</u>	E M I S S I O N S (Tons/Year)						<u>Single HAP</u>	<u>Total HAPs</u>
	<u>CO</u>	<u>NO<sub>x</sub></u>	<u>PM</u>	<u>SO<sub>2</sub></u>	<u>VOM</u>			
NID Starch-Gumdrop Deposition			6.57					
Makat Starch- Gumdrop Deposition			2.28					
Mixing Kettles			1.54					
Reclaim Melt Kettles Flavoring			0.44		0.32	23.06		
Natural Gas Combustion	<u>16.8</u>	<u>20.0</u>	<u>1.60</u>	<u>0.12</u>	<u>1.10</u>			
TOTAL	16.8	20.0	12.43	0.12	24.48	< 10	< 25	

ELK:psj

Attachment B

Equipment Listing:

- 3-25 mmbtu/hour boilers
- 2-400 HP (19.5 mmbtu/hour) boilers
- 2-500 HP (21 mmbtu/hour) boilers
- 3-Warehouse Air Rotation units (3 mmbtu/hour each)
- 1-Mixing Kettle Operation
- 1-Remelt Operation
- 1-Flavor Addition Operation
- 2 - Starch Gumdrops Deposition Operations w/Integrated Dust Collectors and Baghouse Filters