



Mitchell E. Daniels, Jr.
Governor

Thomas W. Easterly
Commissioner

100 North Senate Avenue
Indianapolis, Indiana 46204
(317) 232-8603
(800) 451-6027
www.IN.gov/idem

TO: Interested Parties / Applicant

DATE: February 2, 2005

RE: Weaver Contract Manufacturing, Inc. / 053-20361-00061

FROM: Paul Dubenetzky
Chief, Permits Branch
Office of Air Quality

Notice of Decision: Approval - Registration

Please be advised that on behalf of the Commissioner of the Department of Environmental Management, I have issued a decision regarding the enclosed matter. Pursuant to IC 4-21.5-3-4(d) this order is effective when it is served. When served by U.S. mail, the order is effective three (3) calendar days from the mailing of this notice pursuant to IC 4-21.5-3-2(e).

If you wish to challenge this decision, IC 4-21.5-3-7 requires that you file a petition for administrative review. This petition may include a request for stay of effectiveness and must be submitted to the Office of Environmental Adjudication, 100 North Senate Avenue, Government Center North, Room 1049, Indianapolis, IN 46204, **within eighteen (18) calendar days of the mailing of this notice**. The filing of a petition for administrative review is complete on the earliest of the following dates that apply to the filing:

- (1) the date the document is delivered to the Office of Environmental Adjudication (OEA);
- (2) the date of the postmark on the envelope containing the document, if the document is mailed to OEA by U.S. mail; or
- (3) The date on which the document is deposited with a private carrier, as shown by receipt issued by the carrier, if the document is sent to the OEA by private carrier.

The petition must include facts demonstrating that you are either the applicant, a person aggrieved or adversely affected by the decision or otherwise entitled to review by law. Please identify the permit, decision, or other order for which you seek review by permit number, name of the applicant, location, date of this notice and all of the following:

- (1) the name and address of the person making the request;
- (2) the interest of the person making the request;
- (3) identification of any persons represented by the person making the request;
- (4) the reasons, with particularity, for the request;
- (5) the issues, with particularity, proposed for considerations at any hearing; and
- (6) identification of the terms and conditions which, in the judgment of the person making the request, would be appropriate in the case in question to satisfy the requirements of the law governing documents of the type issued by the Commissioner.

If you have technical questions regarding the enclosed documents, please contact the Office of Air Quality, Permits Branch at (317) 233-0178. Callers from within Indiana may call toll-free at 1-800-451-6027, ext. 3-0178.

Enclosures
FN-REGIS.dot 1/10/05



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
We make Indiana a cleaner, healthier place to live.

Mitchell E. Daniels, Jr.
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February 2, 2005

Mr. Dudley Berthold, II
Weaver Contract Manufacturing, Inc.
4943 North 900 East
Van Buren, IN 46991

Re: Registered Construction and Operation Status,
053-20361-00061

Dear Mr. Berthold:

The application from Weaver Contract Manufacturing, Inc., received on January 13, 2005, has been reviewed. Based on the data submitted and the provisions in 326 IAC 2-5.5, it has been determined that the following stationary microwave popcorn manufacturing and packaging plant, to be located at 4943 North 900 East, Van Buren, IN 46991 is classified as registered:

- (a) One (1) microwave popcorn manufacturing and packaging facility, constructed in 2005, including, but not limited to, receiving, handling, and shipping equipment, raw material storage tanks, process mixing vessels, transfer equipment, and other process equipment, for the processing and packaging of popcorn kernels, coconut and/or vegetable oil, butter, salt, flavoring, and other ingredients, with a maximum capacity of 12,375 pounds of packaged microwave popcorn per hour. The primary process unit consists of the following:
 - (1) One (1) microwave popcorn unit, designated at EU-001, constructed in 2005, for the processing and packaging of popcorn kernels, coconut and/or vegetable oil, butter, salt, flavoring, and other ingredients, with a maximum capacity of 12,375 pounds of packaged microwave popcorn per hour, and with particulate matter emissions controlled by one (1) dust collector, designated as DC-001, with an design grain loading of less than or equal to 0.003 grains per actual cubic foot of outlet air, when operated at a maximum gas flow rate of one thousand (1,000) actual cubic feet per minute (acfm), and exhausting through stack SV-001;
- (b) Insignificant activities consisting of the following:
 - (1) Eight (8) natural gas-fired roof mounted HVAC units, designated as RUT-1 through RUT-8, each rated at 0.175 MMBtu/hr;
 - (2) Three (3) natural gas-fired indoor HVAC units, designated as UH-1, UH-2, and UH-3, each rated at 0.2, 0.28, and 0.08 MMBtu/hr, respectively;
 - (3) Four (4) natural gas-fired radiant heaters, designated as BNR-3, BNR-4, BNR-5, and BNR-6, each rated at 0.06 MMBtu/hr; and
 - (4) Liquid storage vessels with capacities less than or equal to 1,000 gallons and annual throughputs equal to or less than 12,000 gallons, for storage of edible liquids, including, but not limited to, coconut and/or vegetable oil, butter, flavoring, and other edible liquids;

The following conditions shall be applicable:

- (a) Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following:

- (1) Opacity shall not exceed an average of forty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
 - (2) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings) in a six (6) hour period as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor in a six (6) hour period.
- (b) Pursuant to 326 IAC 6-4 (Fugitive Dust Emissions Limitations), the source shall not allow fugitive dust to escape beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located, in a manner that would violate 326 IAC 6-4.
- (c) Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rate from the microwave popcorn unit EU-001 shall be 13.9 pounds per hour, based upon a maximum process weight rate of 6.19 tons per hour (12,375 pounds per hour). The allowable rate of emission can be calculated as follows:

Interpolation of the data in the table in 326 IAC 6-3-2(e)(2) for the process weight rates up to sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

$$E = 4.10 P^{0.67} \quad \text{where } E = \text{rate of emission in pounds per hour, and} \\ P = \text{process weight rate in tons per hour}$$

This registration the first registration issued to this source. The source may operate according to 326 IAC 2-5.5.

An authorized individual shall provide an annual notice to the Office of Air Quality that the source is in operation and in compliance with this registration pursuant to 326 IAC 2-5.5-4(a)(3). The annual notice shall be submitted to:

**Compliance Data Section
Office of Air Quality
100 North Senate Avenue
Indianapolis, IN 46204**

no later than March 1 of each year, with the annual notice being submitted in the format attached.

An application or notification shall be submitted in accordance with 326 IAC 2 to the Office of Air Quality (OAQ) if the source proposes to construct new emission units, modify existing emission units, or otherwise modify the source. If you have any questions on this matter, please contact Nathan C. Bell, c/o OAQ, 100 North Senate Avenue, P.O. Box 6015, Indianapolis, Indiana, 46206-6015, at 317-234-3350 or at 1-800-451-6027 (ext 43350).

Sincerely,

Original signed by

Paul Dubenetzky, Chief
Permits Branch
Office of Air Quality

NCB

cc: File - Grant County
Grant County Health Department
Air Compliance Section Inspector - Marc Goldman
Permit Tracking
Compliance Data Section
Administrative and Development

Registration Annual Notification

This form should be used to comply with the notification requirements under 326 IAC 2-5.5-4(a)(3)

Company Name:	Weaver Contract Manufacturing, Inc.
Address:	4943 North 900 East, Van Buren, IN 46991
City:	Van Buren
Authorized individual:	Bob Hawk
Phone #:	(765) 934-2101
Registration #:	053-20361-00061

I hereby certify that Weaver Contract Manufacturing, Inc. is still in operation and is in compliance with the requirements of Registration 053-20361-00061.

Name (typed):
Title:
Signature:
Date:

Indiana Department of Environmental Management Office of Air Quality

Technical Support Document (TSD) for a Registration

Source Background and Description

Source Name:	Weaver Contract Manufacturing, Inc.
Source Location:	4943 North 900 East, Van Buren, IN 46991
County:	Grant
SIC Code:	2099 (Manufacturing of Food Preparations, Not Else Classified)
Application No.:	053-20361-00061
Reviewer:	Nathan C. Bell

On November 3, 2004, the Office of Air Quality (OAQ) received an application from Weaver Contract Manufacturing, Inc. relating to the operation of a stationary microwave popcorn manufacturing and packaging plant.

New Emission Units and Pollution Control Equipment

The application includes information relating to the construction and operation of the following:

- (a) One (1) microwave popcorn manufacturing and packaging facility, constructed in 2005, including, but not limited to, receiving, handling, and shipping equipment, raw material storage tanks, process mixing vessels, transfer equipment, and other process equipment, for the processing and packaging of popcorn kernels, coconut and/or vegetable oil, butter, salt, flavoring, and other ingredients, with a maximum capacity of 12,375 pounds of packaged microwave popcorn per hour. The primary process unit consists of the following:
 - (1) One (1) microwave popcorn unit, designated at EU-001, constructed in 2005, for the processing and packaging of popcorn kernels, coconut and/or vegetable oil, butter, salt, flavoring, and other ingredients, with a maximum capacity of 12,375 pounds of packaged microwave popcorn per hour, and with particulate matter emissions controlled by one (1) dust collector, designated as DC-001, with an design grain loading of less than or equal to 0.003 grains per actual cubic foot of outlet air, when operated at a maximum gas flow rate of one thousand (1,000) actual cubic feet per minute (acfm), and exhausting through stack SV-001;
- (b) Insignificant activities consisting of the following:
 - (1) Eight (8) natural gas-fired roof mounted HVAC units, designated as RUT-1 through RUT-8, each rated at 0.175 MMBtu/hr;
 - (2) Three (3) natural gas-fired indoor HVAC units, designated as UH-1, UH-2, and UH-3, each rated at 0.2, 0.28, and 0.08 MMBtu/hr, respectively;
 - (3) Four (4) natural gas-fired radiant heaters, designated as BNR-3, BNR-4, BNR-5, and BNR-6, each rated at 0.06 MMBtu/hr; and
 - (4) Liquid storage vessels with capacities less than or equal to 1,000 gallons and annual throughputs equal to or less than 12,000 gallons, for storage of edible liquids, including, but not limited to, coconut and/or vegetable oil, butter, flavoring, and other edible liquids;

Unpermitted Emission Units and Pollution Control Equipment

There are no unpermitted facilities operating at this source during this review process.

Enforcement Issues

There are no enforcement actions pending against this emission source.

Stack Summary

Stack ID	Operation	Height (ft)	Outlet Dimensions (ft)	Flow Rate (acfm)	Temperature (°F)
SV-001	Dust Collector DC-001 Exhaust	30	1.5	1,000	ambient

Recommendation

The staff recommends to the Commissioner that the application be approved as a registration. This recommendation is based on the following facts and conditions:

Unless otherwise stated, information used in this review was derived from the application and additional information submitted by the applicant.

An application for the purposes of this review was received on January 13, 2005. Additional information was provided by the source on January 19, 2005.

Emission Calculations

- (a) Natural Gas Combustion: See Page 2 of 2 TSD Appendix A for detailed emission calculations.
- (b) Microwave Popcorn Manufacturing and Packaging Process Equipment (see below)
 - (1) Potential Emissions Before Controls:

The potential to emit (PTE) of particulate matter (PM/PM10) from the microwave popcorn manufacturing and packaging process equipment was provided by the source in the permit application. The source calculated the uncontrolled PTE of PM/PM10 to be 18.2 tons per year using an emission factor that was calculated by another microwave popcorn manufacturer with the same process and equipment.

As a comparison, the uncontrolled PTE of PM/PM10 can be calculated using emission factors provided in AP-42 Table 9.9.1-1 "Particulate Matter Emission Factors for Grain Elevators." Assuming this source includes grain receiving (straight truck), headhouse and grain handling (e.g., legs, conveyors, belts, distributor, scale, enclosed cleaners, etc.), and storage bin (vent) emission sources, and assuming the source operates 8760 hours per year at a maximum capacity of 12,375 pounds per hour (54,203 tons per year), the PM/PM10 is calculated as follows:

$$\text{Emissions (tons/yr)} = (54,203 \text{ tons corn/yr}) * (\text{Emission Factor lb/ton corn}) * (\text{ton}/2000 \text{ lbs})$$

Emission Source	Emission Factor (lb/ton of corn)		Uncontrolled Potential Emissions (tons/year)	
	PM	PM10	PM	PM10
Grain Receiving (SCC 3-02-005-52)	0.035	0.0078	0.95	0.21
Headhouse and Grain Handling (SCC 3-02-005-03)	0.061	0.034	1.65	0.92
Storage Bin (SCC 3-02-005-40)	0.025	0.0063	0.68	0.17
TOTALS			3.28	1.30
PTE Provided by Source			18.2	18.2

Since the PTE of PM/PM10 provided by the source is greater than that calculated using AP-42 emission factors, the PTE provided by the source shall be used.

PTE of PM (before controls) = 18.2 tons PM/year (provided by source)
PTE of PM10 (before controls) = 18.2 tons PM/year (provided by source)

(2) Potential Emissions After Controls:

The PM/PM10 emissions from the microwave popcorn unit EU-001 was calculated by OAQ to be 0.113 tons per year after controls (dust collector DC-001), assuming the dust collector operated at a design grain loading of less than or equal to 0.003 grains per actual cubic foot of outlet air, when operated at a maximum gas flow rate of twenty thousand (1,000) actual cubic feet per minute (acfm), and assuming the source was operational 60 minutes per hour, 24 hours per day, and 365 days per year.

PTE PM (after controls) = 0.113 tons PM/year
PTE PM10 (after controls) = 0.113 tons PM/year

- (c) Using the Environmental Protection Agency's (EPA) TANKS Version 4.09b program, it was determined that each of the storage vessels storing coconut and/or vegetable oil, butter, flavoring, and other edible liquids at this source would have negligible potential emissions of volatile organic compounds (VOCs).

Potential To Emit

Pursuant to 326 IAC 2-1.1-1(16), Potential to Emit (PTE) is defined as "the maximum capacity of a stationary source or emissions unit to emit any air pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or type or amount of material combusted, stored, or processed shall be treated as part of its design if the limitation is enforceable by the U.S. EPA, the department, or the appropriate local air pollution control agency."

The following table reflects the existing source potential to emit. Control equipment is not considered federally enforceable until it has been required in a federally enforceable permit:

Pollutant	Potential To Emit (tons/year)
PM	18.2
PM-10	18.2
SO ₂	0.01
NO _x	0.96
VOC	0.05
CO	0.81

HAP's	Potential To Emit (tons/year)
Benzene	negligible
Dichlorobenzene	negligible
Formaldehyde	negligible
n-Hexane	0.02
Toluene	negligible
Lead	negligible
Cadmium	negligible
Chromium	negligible
Manganese	negligible
Nickel	negligible
TOTAL HAPs	0.02

- (a) The PTE (as defined in 326 IAC 2-1.1-1(16)) of regulated criteria pollutants are less than twenty-five (25) tons per year, but the PTE of particulate matter (PM or PM-10) is greater than five (5) tons per year and/or the PTE of all other regulated criteria pollutants are greater than ten (10) tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-5.5. A registration will be issued.
- (b) The PTE (as defined in 326 IAC 2-1.1-1(16)) of any single HAP is less than ten (10) tons per year and the PTE of a combination of HAPs is less than twenty-five (25) tons per year. Therefore, the source is not subject to the provisions of 326 IAC 2-7.

County Attainment Status

The source is located in Grant County.

Pollutant	Status
PM10	Attainment or Unclassifiable
SO ₂	Attainment
NO ₂	Attainment or Unclassifiable
1-Hour Ozone	Attainment or Unclassifiable
8-Hour Ozone	Attainment or Unclassifiable
CO	Attainment or Unclassifiable
Lead	Attainment or Unclassifiable

- (a) Volatile organic compounds (VOC) and Nitrogen Oxides (NOx) are regulated under the Clean Air Act (CAA) for the purposes of attaining and maintaining the National Ambient Air Quality Standards (NAAQS) for ozone. Therefore, VOC and NOx emissions are considered when evaluating the rule applicability relating to the ozone standard. Grant County has been designated as attainment or unclassifiable for ozone. Therefore, VOC emissions and NOx were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2. See the State Rule Applicability for the source section.
- (b) Grant County has been classified as attainment or unclassifiable for all the other criteria pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2. See the State Rule Applicability for the source section.
- (c) Fugitive Emissions
 Since this type of operation is not one of the 28 listed source categories under 326 IAC 2-2 or 2-3 and since there are no applicable New Source Performance Standards that were in effect on August 7, 1980, the fugitive particulate matter (PM) and volatile organic compound (VOC)

emissions are not counted toward determination of PSD and Emission Offset applicability.

Source Status

New Source PSD Definition (emissions after controls, based on 8760 hours of operation per year at rated capacity and/or as otherwise limited):

Pollutant	Emissions (tons/yr)
PM	0.13
PM-10	0.19
SO ₂	0.01
NO _x	0.96
VOC	0.05
CO	0.81
Worst Single HAP	0.02
Combination HAPs	0.02

- (a) This existing source is not a major PSD stationary source because no attainment regulated pollutant is emitted at a rate of 250 tons per year or greater and it is not in one of the 28 listed source categories. Therefore, pursuant to 326 IAC 2-2, the PSD requirements do not apply.

Part 70 Permit Determination

326 IAC 2-7 (Part 70 Permit Program)

This new source is not subject to the Part 70 Permit requirements because the PTE of:

- (a) each criteria pollutant is less than 100 tons per year,
- (b) a single hazardous air pollutant (HAP) is less than 10 tons per year, and
- (c) any combination of HAPs is less than 25 tons/year.

This is the first air approval issued to this source.

Federal Rule Applicability

- (a) The requirements of 40 CFR 60, Subpart Kb (60.110b through 60.117b), Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984 (promulgated on October 15, 2003), are not applicable to storage vessels constructed during this period at this source, because each of the storage vessels has a storage capacity less than seventy-five (75) cubic meters (m³) (19,813 gallons).

Note: The recent revisions to 40 CFR 60, Subpart Kb promulgated on October 15, 2003 do not apply to these storage vessels, because 326 IAC 12 and 326 IAC 1-1-3 specifically state that the July 1, 2002 version of 40 CFR 60, Subpart Kb are applicable to storage vessels in Indiana. The requirements of 40 CFR 60, Subpart Kb (promulgated on July 1, 2002) are not applicable to storage vessel at this source, because each of the storage vessels has a storage capacity less than forty (40) cubic meters (m³) (10,567 gallons).

- (b) There are no New Source Performance Standards (NSPS) (326 IAC 12 and 40 CFR Part 60) included in the permit for this source.
- (c) This source is not subject to the requirements of 40 CFR 63, Subpart GGGG (60.2830 through 60.2872), NESHAP for Solvent Extraction for Vegetable Oil Production, because this source does not produce crude vegetable oil and/or meal products.
- (d) This source is not subject to the requirements of 40 CFR 63, Subpart DDDDD, (63.7480 through 63.7575), NESHAPs for Industrial, Commercial, and Institutional Boilers and Process Heaters, because the source is not a major source of HAPs.

- (e) There are no National Emission Standards for Hazardous Air Pollutants (NESHAP)(326 IAC 14, 20 and 40 CFR Part 61, 63) included in the permit for this source.

State Rule Applicability - Entire Source

326 IAC 2-2 (Prevention of Significant Deterioration (PSD))

This source was initially constructed after the applicability date of August 7, 1977, however, it is not one of the 28 listed source categories defined in 326 IAC 2-2-1(y)(1), no major modifications are being done to this source, and the uncontrolled potential to emit of all attainment regulated pollutants is less than 250 tons per year. Therefore, the requirements of 326 IAC 2-2 (PSD) are not applicable.

326 IAC 2-4.1 (Major Sources of Hazardous Air Pollutants (HAP))

The requirements of 326 IAC 2-4.1 are not applicable to this source, since the potential to emit of any single HAP is less than ten (10) tons per year and the potential to emit of a combination of HAPs is less than twenty-five (25) tons per year.

326 IAC 2-6 (Emission Reporting)

This source is not subject to 326 IAC 2-6 (Emission Reporting), because it is located in Grant County, it is not required to have an operating permit under 326 IAC 2-7, Part 70 Permit Program, and it does not emit lead into the ambient air at levels equal to or greater than five (5) tons per year.

326 IAC 5-1 (Opacity Limitations)

Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following, unless otherwise stated in this permit:

- (a) Opacity shall not exceed an average of forty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
- (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings) in a six (6) hour period as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor in a six (6) hour period.

326 IAC 6-4 (Fugitive Dust Emissions Limitations)

Pursuant to 326 IAC 6-4 (Fugitive Dust Emissions Limitations), the source shall not allow fugitive dust to escape beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located, in a manner that would violate 326 IAC 6-4.

State Rule Applicability - Individual Facilities

326 IAC 8-1-6 (VOC rules: General Reduction Requirements for New Facilities)

The requirements of 326 IAC 8-1-6 are not applicable, since each of the emission units at this source does not have the potential to emit greater than twenty-five (25) tons of VOCs per year.

State Rule Applicability - Microwave Popcorn Unit

326 IAC 6-3 (Particulate Emission Limitations for Manufacturing Processes)

The requirements of 326 IAC 6-3 are applicable to the microwave popcorn unit EU-001. Pursuant to

326 IAC 6-3-2, the allowable particulate matter emission rate for a maximum process weight rate of 6.19 tons per hour (12,375 pounds per hour) shall be 13.9 pounds per hour.

$$E = 4.10 P^{0.67} = 4.10 * [6.19]^{0.67} = 13.9 \text{ lb/hr}$$

where E = rate of emission in pounds per hour, and
P = process weight rate in tons per hour

The hourly potential particulate matter emissions are estimated to be 4.2 lb/hr (18.2 tons per year), which is less than the 326 IAC 6-3-2 allowable hourly rate of 13.9 lb/hr. Therefore, compliance with 326 IAC 6-3 is expected.

State Rule Applicability – Natural Gas Combustion Sources

326 IAC 6-3 (Particulate Emission Limitations for Manufacturing Processes)

Pursuant to 326 IAC 6-3-1(b)(14), each of the natural gas-fired roof mounted HVAC units, indoor HVAC units, radiant heaters are exempt from the requirements of 326 IAC 6-3, because they each have a potential particulate emissions less than five hundred fifty-one thousandths (0.551) pound per hour.

326 IAC 7-1 (Sulfur dioxide emission limitations: applicability)

The natural gas-fired roof mounted HVAC units, indoor HVAC units, radiant heaters are each not subject to the requirements of 326 IAC 7-1, because the potential and the actual emissions are less than twenty-five (25) tons per year and ten (10) pounds per hour respectively.

State Rule Applicability - Storage Vessels

326 IAC 8-9 (Volatile Organic Compounds; Volatile Organic Liquid Storage Vessels)

Each of the liquid storage vessels is not subject to the requirements of 326 IAC 8-9, because the source is located in Grant County.

326 IAC 12 (New Source Performance Standards)

Pursuant to 326 IAC 12 and 326 IAC 1-1-3, storage vessels which store organic liquids must be reviewed pursuant to the July 1, 2002 version of 40 CFR Part 60, Subpart Kb (60.110b through 60.117b), Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984 (promulgated on July 1, 2002). The 326 IAC 12 requirement applicability of the storage vessels constructed during this period at this source is as follows:

- (a) The requirements of 40 CFR 60, Subpart Kb (promulgated on July 1, 2002) are not applicable to storage vessel at this source, because each of the storage vessels has a storage capacity less than forty (40) cubic meters (m³) (10,567 gallons).

Conclusion

The operation of these facilities shall be subject to the conditions of the attached registration, No 053-20361-00061.

Appendix A: Emissions Calculations
VOC, Particulate, HAPs
Emission Summary

Company Name: Weaver Contract Manufacturing, Inc.
Address City IN Zip: 4943 North 900 East, Van Buren, IN 46991
Permit Number: 053-20361
Plt ID: 053-00061
Reviewer: Nathan C. Bell
Date: January 26, 2004

Category	Uncontrolled Potential Emissions (tons/year)			
	Emissions Generating Activity			
	Pollutant	Microwave Popcorn Unit	Natural Gas Combustion	TOTAL
Criteria Pollutants	PM	18.2	0.02	18.2
	PM10	18.2	0.07	18.3
	SO2		0.01	0.01
	NOx		0.96	0.96
	VOC		0.05	0.05
	CO		0.81	0.81
Hazardous Air Pollutants	Benzene		2.0E-05	2.0E-05
	Dichlorobenzene		1.2E-05	1.2E-05
	Formaldehyde		7.2E-04	7.2E-04
	n-Hexane		0.02	0.02
	Toluene		3.3E-05	3.3E-05
	Lead		4.8E-06	4.8E-06
	Cadmium		1.1E-05	1.1E-05
	Chromium		1.3E-05	1.3E-05
	Manganese		3.7E-06	3.7E-06
	Nickel		2.0E-05	2.0E-05
	Totals	0	0.02	0.02
			Worse Case HAP	0.02

Total emissions based on rated capacity at 8,760 hours/year.

Category	Controlled Potential Emissions (tons/year)			
	Emissions Generating Activity			
	Pollutant	Microwave Popcorn Unit	Natural Gas Combustion	TOTAL
Criteria Pollutants	PM	0.113	0.02	0.13
	PM10	0.113	0.07	0.19
	SO2		0.01	0.01
	NOx		0.96	0.96
	VOC		0.05	0.05
	CO		0.81	0.81
Hazardous Air Pollutants	Benzene		2.0E-05	2.0E-05
	Dichlorobenzene		1.2E-05	1.2E-05
	Formaldehyde		7.2E-04	7.2E-04
	n-Hexane		0.02	0.02
	Toluene		3.3E-05	3.3E-05
	Lead		4.8E-06	4.8E-06
	Cadmium		1.1E-05	1.1E-05
	Chromium		1.3E-05	1.3E-05
	Manganese		3.7E-06	3.7E-06
	Nickel		2.0E-05	2.0E-05
	Totals	0	0.02	0.02
			Worse Case HAP	0.02

Total emissions based on rated capacity at 8,760 hours/year.

Appendix A: Emissions Calculations
VOCs, Particulate, HAPs
Natural Gas Combustion Only
MM BTU/HR <100

Company Name: Weaver Contract Manufacturing, Inc.
Address City IN Zip: 4943 North 900 East, Van Buren, IN 46991
Permit Number: 053-20361
Plt ID: 053-00061
Reviewer: Nathan C. Bell
Date: January 26, 2004

Emission Unit	Number of Units	Unit Heat Input Capacity MMBtu/hr	Combined Total Heat Input Capacity MMBtu/hr	Potential Throughput MMCF/yr	Pollutant					
					PM*	PM10*	SO2	NOx**	VOC	CO
Emission Factor (lb/MMCF)					1.9	7.6	0.6	100	5.5	84.0
Potential Emission tons/yr					PM*	PM10*	SO2	NOx**	VOC	CO
Roof Mounted HVAC Units (RUT-1 through RUT-8)	8	0.175	1.4	12.26	0.012	0.047	0.004	0.613	0.034	0.515
Indoor Gas HVAC Unit UH-1	1	0.20	0.20	1.75	0.002	0.007	0.001	0.088	0.005	0.074
Indoor Gas HVAC Unit UH-2	1	0.28	0.28	2.45	0.002	0.009	0.001	0.123	0.007	0.103
Indoor Gas HVAC Unit UH-3	1	0.08	0.08	0.70	0.001	0.003	0.000	0.035	0.002	0.029
Radiant Heaters	4	0.06	0.24	2.10	2.0E-03	0.008	0.001	0.105	0.006	0.088
Totals	15		2.2		0.018	0.073	0.006	0.964	0.053	0.809

Emission Unit	Pollutant									
	Benzene	DCB	Formaldehyde	Hexane	Toluene	Pb	Cd	Cr	Mn	Ni
Emission Factor (lb/MMCF)										
	2.1E-03	1.2E-03	7.5E-02	1.8E+00	3.4E-03	5.0E-04	1.1E-03	1.4E-03	3.8E-04	2.1E-03
Potential Emission tons/yr										
	Benzene	DCB	Formaldehyde	Hexane	Toluene	Pb	Cd	Cr	Mn	Ni
Roof Mounted HVAC Units (RUT-1 through RUT-8)	1.3E-05	7.4E-06	4.6E-04	0.011	2.1E-05	3.1E-06	6.7E-06	8.6E-06	2.3E-06	1.3E-05
Indoor Gas HVAC Unit UH-1	1.8E-06	1.1E-06	6.6E-05	0.002	3.0E-06	4.4E-07	9.6E-07	1.2E-06	3.3E-07	1.8E-06
Indoor Gas HVAC Unit UH-2	2.6E-06	1.5E-06	9.2E-05	0.002	4.2E-06	6.1E-07	1.3E-06	1.7E-06	4.7E-07	2.6E-06
Indoor Gas HVAC Unit UH-3	7.4E-07	4.2E-07	2.6E-05	0.001	1.2E-06	1.8E-07	3.9E-07	4.9E-07	1.3E-07	7.4E-07
Radiant Heaters	2.2E-06	1.3E-06	7.9E-05	0.002	3.6E-06	5.3E-07	1.2E-06	1.5E-06	4.0E-07	2.2E-06
Totals	2.0E-05	1.2E-05	7.2E-04	0.017	3.3E-05	4.8E-06	1.1E-05	1.3E-05	3.7E-06	2.0E-05
TOTAL HAPs	0.02									

*PM emission factor is filterable PM only. PM10 emission factor is filterable and condensable PM10 combined.

**Emission Factors for NOx: Uncontrolled = 100, Low NOx Burner = 50, Low NOx Burners/Flue gas recirculation = 32

The five highest organic and metal HAPs emission factors are provided above. Additional HAPs emission factors are available in AP-42, Chapter 1.4.

Methodology

Potential Throughput (MMCF) = Combined Total Heat Input Capacity (MMBtu/hr) * 8,760 hrs/yr * 1 MMCF/1,000 MMBtu

Emission (tons/yr) = Throughput (MMCF/yr) * Emission Factor (lb/MMCF) / 2,000 lb/ton

Emission Factors are from AP 42, Chapter 1.4, Tables 1.4-1, 1.4-2, 1.4-3, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03 (SUPPLEMENT D 3/98)

All emission factors are based on normal firing.

MMBtu = 1,000,000 Btu, MMCF = 1,000,000 Cubic Feet of Gas

Abbreviations

PM = Particulate Matter

PM10 = Particulate Matter (<10 um)

SO2 = Sulfur Dioxide

NOx = Nitrous Oxides

VOC - Volatile Organic Compounds

CO = Carbon Monoxide

DCB = Dichlorobenzene

Pb = Lead

Cd = Cadmium

Cr = Chromium

Mn = Manganese

Ni = Nickel