



TO: Interested Parties / Applicant
RE: Target Distribution Center / R097-24366-00546
FROM: Felicia A. Robinson
Administrator

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 Indianapolis Office of Environmental Services, Air Permits at (317) 327-2234.

Enclosures



Air Quality Hotline: 317-327-4AIR | knozone.com

Department of Public Works
Office of Environmental Services

2700 Belmont Avenue
Indianapolis, IN 46221

317-327-2234
Fax 327-2274
TDD 327-5186
indygov.org/dpw

March 29, 2007

Bobbie Robinson
Target Distribution Center
7551 West Morris Street - T559
Indianapolis, Indiana 46231



Certified Mail: **7000 0600 0023 5187 1554**

Re: Registration Revision R097-24366-00546
to Registration No. R097-20166-00546

Dear Ms. Robinson:

The application from Target Distribution Center, located at 7551 West Morris Street, Indianapolis, Indiana, 46231, was received on February 26, 2007, and has been reviewed. Based on the data submitted and the provisions in 326 IAC 2-5.5, it has been determined that the following warehouse operation is classified as registered:

- (a) One (1) above ground diesel storage tank, with a maximum capacity of 15,000 gallons, installed in 1988, using no control, and exhausting to the atmosphere
- (b) One (1) diesel emergency generator, with a maximum heat input of 2.2 million Btu per hour (MMBtu/hr), installed in 1988, using no control, and exhausting to the atmosphere.
- (c) One (1) diesel fire pump, with a maximum heat input of 0.6 million Btu per hour (MMBtu/hr), installed in 1988, using no control, and exhausting to the atmosphere.
- (d) One (1) paint booth, with a maximum paint usage of four (4) gallons per day, installed in 1988, using dry filters to control particulate emissions, and exhausting to the atmosphere.
- (e) Six (6) natural gas fired space heaters, each with a maximum heat input of 2.5 million Btu per hour (MMBtu/hr), installed in 2005, using no control, and exhausting to the atmosphere.
- (f) Six (6) natural gas fired space heaters, each with a maximum heat input of 2.375 million Btu per hour (MMBtu/hr), installed in 2005, using no control, and exhausting to the atmosphere.
- (g) Six (6) natural gas fired space heaters, each with a maximum heat input of 1.93 million Btu per hour (MMBtu/hr), installed in 2005, using no control, and exhausting to the atmosphere.
- (h) One (1) natural gas fired space heater, with a maximum heat input of 375,000 Btu per hour, installed in 2005, using no control, and exhausting to the atmosphere.
- (i) Two (2) natural gas fired infrared heaters, each with a maximum heat input of 150,000 Btu/hr, using no control, and exhausting to the atmosphere.

The following conditions shall be applicable:

- 1) 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:



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Department of Public Works
Office of Environmental Services

2700 Belmont Avenue
Indianapolis, IN 46221

317-327-2234
Fax 327-2274
TDD 327-5186

indygov.org/dpw

- (a) Opacity shall not exceed an average of thirty percent (30%) 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 15 minutes (60 readings) in a 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.
- 2) Pursuant to 326 IAC 6-4, 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 this regulation.

This registration is 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:

Indiana Department of Environmental Management
Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204-2251

and

Office of Environmental Services
Air Quality Management Section, Compliance Data Group
2700 South Belmont Avenue
Indianapolis, Indiana 46221-2097

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) and OES if the source proposes to construct new emission units, modify existing emission units, or otherwise modify the source.

Sincerely,

ORIGINAL SIGNED BY

Felicia A. Robinson
Administrator

FAR/md

cc: OES Files - 2 copies
Compliance - Matt Mosier
USEPA - R5
Marion County Health Dept.
IDEM, Mindy Hahn

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:	Target Distribution Center
Address:	7551 West Morris Street - T559
City:	Indianapolis, Indiana 46231
Authorized individual:	Facility Operation Manager
Phone #:	(317) 248-5450
Registration #:	097-20166-00546

I hereby certify that Target Distribution Center is still in operation and is in compliance with the requirements of Registration R097-24366-00546.

Name (typed):
Title:
Signature:
Date:

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
and
INDIANAPOLIS OFFICE OF ENVIRONMENTAL SERVICES**

Technical Support Document (TSD) for a Registration

Source Background and Description

Source Name:	Target Distribution Center
Source Location:	7551 West Morris Street - T559, Indianapolis, IN, 46226
County:	Marion
SIC Code:	4225
Operation Permit No.:	R097-20166-00546
Operation Permit Issuance Date:	December 13, 2004
Permit Revision (or Renewal) No.:	R097-24366-00546
Permit Reviewer:	Monica Doyle

The Office of Environmental Services (OES) has reviewed an application from Target Distribution Center relating to the operation of a warehouse. The source is removing seven (7) natural gas fired space heaters, and replacing them with twenty-one (21) natural gas fired space heaters.

Permitted Emission Units and Pollution Control Equipment

The source consists of the following permitted emission units and pollution control devices:

- (a) One (1) above ground diesel storage tank, with a maximum capacity of 15,000 gallons, installed in 1988, using no control, and exhausting to the atmosphere.
- (b) One (1) diesel emergency generator, with a maximum heat input of 2.2 million Btu per hour (MMBtu/hr), installed in 1988, using no control, and exhausting to the atmosphere.
- (c) One (1) diesel fire pump, with a maximum heat input of 0.6 million Btu per hour (MMBtu/hr), installed in 1988, using no control, and exhausting to the atmosphere.
- (d) One (1) paint booth, with a maximum paint usage of four (4) gallons per day, installed in 1988, using dry filters to control particulate emissions, and exhausting to the atmosphere.

Previously Permitted Emission Units Removed from the Source

- (e) Two (2) natural gas fired space heaters, each with a maximum heat input of 0.1 million Btu per hour (MMBtu/hr), installed in 1988, using no control, and exhausting to the atmosphere.
- (f) Five (5) natural gas fired space heaters, each with a maximum heat input of 3.75 million Btu per hour (MMBtu/hr), installed in 1988, using no control, and exhausting to the atmosphere.

Unpermitted Emission Units and Pollution Control Equipment

The source also consists of the following unpermitted emission units:

- (g) Six (6) natural gas fired space heaters, each with a maximum heat input of 2.5 million Btu per hour (MMBtu/hr), installed in 2005, using no control, and exhausting to the atmosphere.

- (h) Six (6) natural gas fired space heaters, each with a maximum heat input of 2.375 million Btu per hour (MMBtu/hr), installed in 2005, using no control, and exhausting to the atmosphere.
- (i) Six (6) natural gas fired space heaters, each with a maximum heat input of 1.93 million Btu per hour (MMBtu/hr), installed in 2005, using no control, and exhausting to the atmosphere.
- (j) One (1) natural gas fired space heater, with a maximum heat input of 375,000 Btu per hour, installed in 2005, using no control, and exhausting to the atmosphere.
- (k) Two (2) natural gas fired infrared heaters, each with a maximum heat input of 150,000 Btu/hr, using no control, and exhausting to the atmosphere.

Existing Approvals

The source has been operating under previous approvals including, but not limited to, the following:

- (a) R097-20166-00546, issued on December 13, 2004.

All terms and conditions of previous permits issued pursuant to permitting programs approved into the state implementation plan have been either incorporated as originally stated, revised, or deleted by this permit. All previous registrations and permits are superseded by this permit.

The New Source Performance Standards (NSPS) requirements for the organic liquid storage tanks have been removed because they are no longer applicable to the source. On October 15, 2003, EPA revised 40 CFR 116(b). IDEM has incorporated these changes as of July 1, 2005.

Justification for the Revision

This application is not a Notice-Only change per 326 IAC 2-5.5-6(d)(11)(C) and, therefore, it is submitted pursuant to 326 IAC 2-5.5-6(g).

This revision application is being processed in accordance with 326 IAC 2-5.5-6(h). Following this Registration Revision, 097-24366-00546, the potential to emit of PM, PM10, SO2, VOC, and NOx remains less than twenty five (25) tons per year, and potential to emit CO remains less than one hundred (100) tons per year. Therefore, the source is still subject to the provisions of 326 IAC 2-5.5.

Enforcement Issue

- (a) IDEM, OAQ, and OES are aware that equipment has been constructed and operated prior to receipt of the proper permit. The subject equipment is listed in this Technical Support Document under the condition entitled "Unpermitted Emission Units and Pollution Control Equipment".
- (b) IDEM, OAQ, and OES are reviewing this matter and will take appropriate action. This proposed permit is intended to satisfy the requirements of the construction permit rules.

Recommendation

The staff recommends to the Commissioner that the construction and operation be approved. 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 February 26, 2007, with additional information received on March 13, 2007.

Emission Calculations

Emission calculations for this source can be found in Appendix A, pages 1 through 4.

Potential to Emit (of the Source or Revision) Before Controls

Pursuant to 326 IAC 2-1.1-1(16), Potential to Emit 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.@

Pollutant	Potential To Emit (tons/year)
PM	0.38
PM-10	1.4
SO ₂	0.5
VOC	1.0
CO	15.3
NO _x	18.3
Single HAP	Negligible
Total HAPs	Negligible

- (a) The potential to emit (as defined in 326 IAC 2-7-1(29)) of oxides of nitrogen (NO_x) is equal to or greater than ten (10) tons per year and less than twenty-five (25) tons per year. The potential to emit (as defined in 326 IAC 2-7-1(29)) of all other criteria pollutants is less than twenty-five (25) tons per year. Therefore, the source is registered and subject to the provisions of 326 IAC 2-5.1-2.
- (b) The potential to emit (as defined in 326 IAC 2-7-1(29)) of any single HAP is less than ten (10) tons per year and the potential to emit (as defined in 326 IAC 2-7-1(29)) of a combination HAPs is less than twenty-five (25) tons per year. Therefore, the source is not subject to the provisions of 326 IAC 2-7.
- (c) Fugitive Emissions
Since this type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2 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.

Actual Emissions

No previous emission data has been received from the source.

County Attainment Status

The source is located in Marion County.

Pollutant	Status
PM-2.5	nonattainment
PM-10	attainment
SO ₂	maintenance attainment
NO ₂	attainment
8-hour Ozone	basic nonattainment
CO	attainment
Lead	attainment

- (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 standards. Marion County has been designated as nonattainment for the 8-hour ozone standard. Therefore, VOC and NOx emissions were reviewed pursuant to the requirements for Emission Offset, 326 IAC 2-3.
- (b) Marion County has been classified as nonattainment for PM2.5 in 70 FR 943 dated January 5, 2005. Until U.S. EPA adopts specific New Source Review rules for PM2.5 emissions, it has directed states to regulate PM10 emissions as a surrogate for PM2.5 emissions pursuant to the requirements of Emission Offset, 326 IAC 2-3.
- (c) Marion County has been classified as attainment or unclassifiable for PM10, SO₂, CO and Lead. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.
- (d) On October 25, 2006, the Indiana Air Pollution Control Board finalized a rule revision revoking the one-hour ozone standard in Indiana

Source Status

Existing Source PSD, Emission Offset, Part 70, or FESOP Definition (emissions after controls, based on 8760 hours of operation per year at rated capacity and/or as otherwise limited):

Pollutant	Potential To Emit (tons/year)
PM	0.38
PM-10	1.4
SO ₂	0.5
VOC	1.0
CO	15.3
NO _x	18.3
Single HAP	Negligible
Total HAPs	Negligible

- (a) This existing source is not a major stationary source because no attainment regulated pollutant is emitted at a rate of 250 tons per year or more, 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.

- (b) This existing source is not a major stationary source because no nonattainment regulated pollutant is emitted at a rate of 100 tons or greater per year. Therefore, pursuant to 326 IAC 2-3, the Emission Offset and Nonattainment New Source Review requirements do not apply.

Part 70 Permit Determination

326 IAC 2-7 (Part 70 Permit Program)

This existing source, including the emissions from this permit 097-24366-00546, is still not subject to the Part 70 Permit requirements because the potential to emit (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 per year.

This status is based on all the air approvals issued to the source. This status has been verified by OES inspector assigned to the source.

Federal Rule Applicability

- (a) There are no New Source Performance Standards (NSPS)(326 IAC 12 and 40 CFR Part 60) included in this permit.
 - (1) Steam generating units that have a maximum design heat input capacity of less than ten (10) million Btu per hour (10 mm Btu/hr) are not subject to 40 CFR Part 60 Subpart Dc. Therefore, there are no requirements for 40 CFR Part 60 Subpart Dc included in the permit for the emergency generator, the fire pump, or the space heaters.
 - (2) There are no requirements for the New Source Performance Standard, 326 IAC 12, (40 CFR 60.116b, Subpart Kb) included in this permit because the one (1) 15,000 gallon diesel storage tank has a capacity of less than seventy-five (75) cubic meters (m³), was installed after July 23, 1984, and stores volatile organic liquid.
- (b) There are no National Emission Standards for Hazardous Air Pollutants (NESHAPs)(326 IAC 14 and 40 CFR Part 63) included in this permit.

State Rule Applicability

326 IAC 2-1.1-5 (Non-attainment New Source Review)

This source is not subject to 326 IAC 2-1.1-5 because it has the potential to emit less than 100 tons of PM 10.

326 IAC 2-2 (Prevention of Significant Deterioration)

This modification to an existing minor stationary source is not major because the emissions increase is less than the PSD threshold for all attainment criteria pollutants. Therefore, pursuant to 326 IAC 2-2, the PSD requirements do not apply.

326 IAC 2-3 (Emission Offset)

This modification to an existing minor stationary source is not major because the emissions increase is less than the Emission Offset threshold for VOC and NOx. Therefore, pursuant to 326 IAC 2-3, the Emission Offset requirements do not apply.

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

This source is not subject to 326 IAC 2-4.1, because it is not a major source of hazardous air pollutants, as defined in 40 CFR 63.

326 IAC 2-6 (Emission Reporting)

This source is not subject to 326 IAC 2-6 (Emission Reporting), because it is located in Marion 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 thirty percent (30%) 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) 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 6-2-4 (Particulate Emissions Limitations for Sources of Indirect Heating)

The natural gas fired space heaters, the emergency generator, and the fire pump are not subject to the provisions of 326 IAC 6-2-1(d) because they are not sources of indirect heating

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

Pursuant to 326 IAC 6-3-1(b)(15), this rule does not apply to the surface coating operations, because less than five (5) gallons of paint are used per day.

326 IAC 6-4 (Fugitive Dust Emissions Limitations)

Pursuant to 326 IAC 6-4, 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 this regulation.

326 IAC 6.5-1-2 (Particulate Matter Limitations Except Lake County) and 326 IAC 6.5-6 (Marion County)

This source has the potential to emit particulate of less than one hundred (100) tons per year and has actual emissions less than ten (10) tons per year. Target Distribution Center is not specifically identified in 326 IAC 6.5-6 (Marion County). Therefore, 326 IAC 6.5-1-2 (Particulate Matter Limitations Except Lake County) and 326 IAC 6.5-6 (Marion County) does not apply to this source.

326 IAC 7-1 (Sulfur Dioxide Emission Limitations)

This rule does not apply to this source because the potential to emit of each individual unit has the potential to emit less than 25 tons per year or 10 pounds per hour of Sulfur Dioxide.

326 IAC 8-1-6 (New Facilities; General Reduction Requirements)

The Permittee has no individual facility with the potential to emit more than twenty-five (25) tons per year of VOCs. Therefore, 326 IAC 8-1-6 does not apply.

326 IAC 8-2 (Surface Coating Emission Limitations)

Construction of the surface coating operations commenced after January 1, 1980, and they have potential emissions of less than twenty-five (25) tons per year of VOC, and they have actual emissions of less than fifteen (15) pounds per day. Therefore, they are not subject to 326 IAC 8-2 (Surface Coating Emission Limitations).

Proposed changes

1. The emission unit descriptive information has been changed to reflect the replacement of space heaters as follows:

The source consists of the following permitted emission units and pollution control devices:

- (a) One (1) above ground diesel storage tank, with a maximum capacity of 15,000 gallons, installed in 1988, using no control, and exhausting to the atmosphere.
 - (b) One (1) diesel emergency generator, with a maximum heat input of 2.2 million Btu per hour (MMBtu/hr), installed in 1988, using no control, and exhausting to the atmosphere.
 - (c) One (1) diesel fire pump, with a maximum heat input of 0.6 million Btu per hour (MMBtu/hr), installed in 1988, using no control, and exhausting to the atmosphere.
 - (d) One (1) paint booth, with a maximum paint usage of four (4) gallons per day, installed in 1988, using dry filters to control particulate emissions, and exhausting to the atmosphere.
 - ~~(e) Two (2) natural gas fired space heaters, each with a maximum heat input of 0.1 million Btu per hour (MMBtu/hr), installed in 1988, using no control, and exhausting to the atmosphere.~~
 - ~~(f) Five (5) natural gas fired space heaters, each with a maximum heat input of 3.75 million Btu per hour (MMBtu/hr), installed in 1988, using no control, and exhausting to the atmosphere.~~
 - (e) Six (6) natural gas fired space heaters, each with a maximum heat input of 2.5 million Btu per hour (MMBtu/hr), installed in 2005, using no control, and exhausting to the atmosphere.**
 - (f) Six (6) natural gas fired space heaters, each with a maximum heat input of 2.375 million Btu per hour (MMBtu/hr), installed in 2005, using no control, and exhausting to the atmosphere.**
 - (g) Six (6) natural gas fired space heaters, each with a maximum heat input of 1.93 million Btu per hour (MMBtu/hr), installed in 2005, using no control, and exhausting to the atmosphere.**
 - (h) One (1) natural gas fired space heater, with a maximum heat input of 375,000 Btu per hour, installed in 2005, using no control, and exhausting to the atmosphere.**
 - (i) Two (2) natural gas fired infrared heaters, each with a maximum heat input of 150,000 Btu/hr, using no control, and exhausting to the atmosphere.**
2. IDEM OAQ's mailing address has been revised throughout the Permit, as follows:

Indiana Department of Environmental Management
Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana ~~46206-6015~~ **46204-2251**
 3. Since the issuance of Registration R097-20166-00546, 40 CFR, Subpart Kb has been revised. The storage tank located at Target Distribution Center has a capacity less than 75 cubic meters, therefore is no longer subject to 40 CFR 60, Subpart Kb.

~~Pursuant to 326 IAC 12 and 40 CFR 60.116b(c), the Permittee shall maintain records of the volatile organic liquid stored, the period of storage, and the maximum true vapor pressure of that volatile organic liquid during the respective storage period for the storage tank.~~

~~Pursuant to 326 IAC 12 and 40 CFR 60.116b(d), the Permittee shall notify IDEM, OAQ, and OES within 30 days when the maximum true vapor pressure of the liquid stored in tanks T-101, T-102, or T-103 exceeds 4.0 psia (27.6 kPa).~~

Conclusion

This warehouse operation shall be subject to the conditions of the attached Registration 097-24366-00546.

**Appendix A: Emissions Calculations
 Natural Gas Combustion Only
 MM BTU/HR <100
 Small Industrial Boiler**

Company Name: Target Distribution Center
Address City IN Zip: 7551 West Morris Street - T559, Indianapolis, IN 46231
Permit Number: 097-24366-00546
Reviewer: Monica Doyle
Date: March 2, 2007

Heat Input Capacity
 MMBtu/hr

Potential Throughput
 MMCF/yr

41.5

363.6

Emission Factor in lb/MMCF	Pollutant					
	PM*	PM10*	SO2	NOx	VOC	CO
	1.9	7.6	0.6	100.0	5.5	84.0
				**see below		
Potential Emission in tons/yr	0.3	1.4	0.1	18.2	1.0	15.3

*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

Methodology

All emission factors are based on normal firing.

MMBtu = 1,000,000 Btu

MMCF = 1,000,000 Cubic Feet of Gas

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

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)

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

**Appendix A: Emissions Calculations
 Natural Gas Combustion Only
 MM BTU/HR <100
 Small Industrial Boiler
 HAPs Emissions**

**Company Name: Target Distribution Center
 Address City IN Zip: 7551 West Morris Street - T559, Indianapolis, IN 46231
 Permit Number: 097-24366-00546
 Reviewer: Monica Doyle
 Date: March 2, 2007**

HAPs - Organics					
Emission Factor in lb/MMcf	Benzene 2.1E-03	Dichlorobenzene 1.2E-03	Formaldehyde 7.5E-02	Hexane 1.8E+00	Toluene 3.4E-03
Potential Emission in tons/yr	3.818E-04	2.182E-04	1.363E-02	3.272E-01	6.181E-04

HAPs - Metals					
Emission Factor in lb/MMcf	Lead 5.0E-04	Cadmium 1.1E-03	Chromium 1.4E-03	Manganese 3.8E-04	Nickel 2.1E-03
Potential Emission in tons/yr	9.090E-05	2.000E-04	2.545E-04	6.908E-05	3.818E-04

Methodology is the same as page 1.

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

Appendix A: Emissions Calculations
Commercial/Institutional/Residential Combustors (< 100 mmBtu/hr)
#1 and #2 Fuel Oil

Company Name: Target Distribution Center
Address City IN Zip: 7551 West Morris Street - T559, Indianapolis, IN 46231
Permit Number: 097-24366-00546
Reviewer: Monica Doyle
Date: March 2, 2007

Heat Input Capacity MMBtu/hr	Potential Throughput kgals/year	S = Weight % Sulfur 0.5
2.8	10	

Emission Factor in lb/kgal	Pollutant				
	PM*	SO2	NOx	VOC	CO
	2.0	71 (142.0S)	20.0	0.34	5.0
Potential Emission in tons/yr	0.0	0.4	0.1	0.0	0.0

Methodology

1 gallon of No. 2 Fuel Oil has a heating value of 140,000 Btu

Potential Throughput (kgals/year) = Heat Input Capacity (MMBtu/hr) x 500 hrs/yr x 1kgal per 1000 gallon x 1 gal per 0.140 MM Btu

Emission Factors are from AP 42, Tables 1.3-1, 1.3-2, and 1.3-3 (SCC 1-03-005-01/02/03) Supplement E 9/98 (see erata file)

*PM emission factor is filterable PM only. Condensable PM emission factor is 1.3 lb/kgal.

Emission (tons/yr) = Throughput (kgals/ yr) x Emission Factor (lb/kgal)/2,000 lb/ton

See page 4 for HAPs emission calculations.

Appendix A: Emissions Calculations
Commercial/Institutional/Residential Combustors (< 100 mmBtu/hr)
#1 and #2 Fuel Oil
HAPs Emissions

Company Name: Target Distribution Center
Address City IN Zip: 7551 West Morris Street - T559, Indianapolis, IN 46231
Permit Number: 097-24366-00546
Reviewer: Monica Doyle
Date: March 2, 2007

HAPs - Metals					
	Arsenic	Beryllium	Cadmium	Chromium	Lead
Emission Factor in lb/mmBtu	4.0E-06	3.0E-06	3.0E-06	3.0E-06	9.0E-06
Potential Emission in tons/yr	4.91E-05	3.68E-05	3.68E-05	3.68E-05	1.10E-04

HAPs - Metals (continued)				
	Mercury	Manganese	Nickel	Selenium
Emission Factor in lb/mmBtu	3.0E-06	6.0E-06	3.0E-06	1.5E-05
Potential Emission in tons/yr	3.68E-05	7.36E-05	3.68E-05	1.84E-04

Methodology

No data was available in AP-42 for organic HAPs.

Potential Emissions (tons/year) = Throughput (mmBtu/hr)*Emission Factor (lb/mmBtu)*8,760 hrs/yr / 2,000 lb/ton