



State of Ohio Environmental Protection Agency

STREET ADDRESS:

Lazarus Government Center
50 W. Town St., Suite 700
Columbus, Ohio 43215

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MAILING ADDRESS:

P.O. Box 1049
Columbus, OH 43216-1049

March 20, 2008

Greg M. Rose
Chrysler LLC
800 Chrysler Drive CIMS 482-00-51
Auburn Hills, Michigan 48326-2757

CERTIFIED MAIL
9171082133393109730545

Re: Dayton Thermal Products
Ohio Permit Number: UIC 05-57-10-PTO-V

Dear Mr. Rose:

The application submitted for an Underground Injection Control (UIC) Class V 5X26 Area Permit to Operate has been reviewed by Ohio EPA's Division of Drinking and Ground Waters, Underground Injection Control Unit. The UIC Unit has recommended that the Director issue the above referenced Class V Permit as your proposal complies with all applicable Ohio UIC Rules.

Therefore, a Class V 5X26 Area Permit to to Operate is issued to you today in **FINAL** form. This permit is effective on the date of issuance. A signed copy of the final permit is enclosed.

You are hereby notified that this action of the Director is final and may be appealed to the Environmental Review Appeals Commission pursuant to Section 3745.04 of the Ohio Revised Code. The appeal must be in writing and set forth the action complained of and the grounds upon which the appeal is based. The appeal must be filed with the Commission within thirty (30) days after notice of the Director's action. The appeal must be accompanied by a filing fee of \$70.00 which the Commission, in its discretion, may reduce if by affidavit you demonstrate that payment of the full amount of the fee would cause extreme hardship. Notice of the filing of the appeal shall be filed with the Director within three (3) days of filing with the Commission. Ohio EPA requests that a copy of the appeal be served upon the Ohio Attorney General's Office, Environmental Enforcement Section. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

Environmental Review Appeals Commission
309 South Fourth Street, Room 222
Columbus, OH 43215

Ted Strickland, Governor
Lee Fisher, Lieutenant Governor
Chris Korleski, Director

Greg M. Rose
Chrysler LLC
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If you should have any questions, please do not hesitate to contact Lindsay Taliaferro III, UIC Manager or Valerie Orr of my staff at (614) 644-2752.

Sincerely,



Michael G. Baker, Chief
Division of Drinking and Ground Waters

MGB:vo
daytonthermalissuance.doc

Enclosures

cc: Lindsay Taliaferro III, Manager, UIC
Gary Stanczuk, Chrysler LLC



OHIO E.P.A.

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OHIO JOURNAL

**OHIO ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF DRINKING AND GROUND WATERS
UNDERGROUND INJECTION CONTROL 5X26 AREA PERMIT TO OPERATE
CLASS V INJECTION WELLS**

Ohio Permit No. UIC 05-57-10-PTO-V

Applicant: Chrysler LLC

Address: 1000 Chrysler Drive
Auburn Hills Michigan 48326

Telephone: (248) 576-7365

Facility Name: Dayton Thermal Products

Facility Location: 1600 Webster Street, Dayton, Ohio

Latitude 39° 46' 57.3", Longitude 84° 10' 55.6"
South Plant: Section 5, North Plant: Section 6, T1 R7

Montgomery County

Description: The purpose of the injection is to create a ground water containment system to prevent the off-site migration of chlorinated volatile organic compounds and establish hydraulic control of ground water flow at the site. In addition, the reinjected ground water will be augmented with sodium lactate to promote the reductive dechlorination of the chlorinated volatile organic compounds present in the aquifer.

Issuance Date: March 20, 2008

Effective Date: March 20, 2008

Expiration Date: March 20, 2013

I certify this to be a true and accurate copy of the official documents as filed in the records of the Ohio Environmental Protection Agency.

By:  Date: 3-20-08

The above named applicant is hereby ISSUED a 5X26 Area Permit to Operate for the above described underground injection wells pursuant to Sections 6111.043 and 6111.044 of the Ohio Revised Code and to Chapter 3745-34 of the Ohio Administrative Code. Issuance of this 5X26 Area Permit to Operate does not constitute expressed or implied approval or agreement that, if constructed and/or modified in accordance with the specifications and/or information accompanying the permit application, the above described activity will be in compliance with applicable State and Federal laws and rules and regulations. This 5X26 Area Permit to Operate is issued subject to the attached conditions which are hereby incorporated and made a part hereof.

Expiration Date: This permit shall expire at midnight on the expiration date indicated above, unless terminated or modified under Chapter 3745-34 of the Ohio Administrative Code.

A handwritten signature in black ink, appearing to read "C. Korleski", written over a horizontal line.

Chris Korleski, Director

OHIO ENVIRONMENTAL PROTECTION AGENCY

PART I
GENERAL PERMIT COMPLIANCE

A. EFFECT OF PERMIT

The permittee is authorized to engage in the operation of 5X26 Class V underground injection wells in accordance with Chapter 3745-34 of the Ohio Administrative Code (OAC) and the conditions of this permit. Notwithstanding any other provisions of this permit, the permittee shall not construct, operate, maintain, convert, plug, abandon, or conduct any other injection activity in a manner that allows the movement of injection or formation fluids into underground sources of drinking water (USDWs) if the presence of that material may cause a violation of any primary drinking water regulation under OAC Chapter 3745-81 or may otherwise adversely affect the health of persons. Any underground injection activity not specifically authorized in this permit is prohibited. Compliance with this permit during its term constitutes compliance for purposes of enforcement, with Sections 6111.043 and 6111.044 of the Ohio Revised Code (ORC). Such compliance does not constitute a defense to any action brought under ORC Sections 6109.31, 6109.32 or 6109.33 or any other common or statutory law other than ORC Sections 6111.043 and 6111.044. Issuance of this permit does not convey property rights of any sort or any exclusive privilege; nor does it authorize any injury to persons or property, any invasion of other private rights, or any infringement of state or local law. Nothing in this permit shall be construed to relieve the permittee of any duties under applicable state and federal law, regulations, or permits.

B. PERMIT ACTIONS

1. Modification, Revocation, Reissuance and Termination. The Director may, for cause or upon request from the permittee, modify, revoke and reissue, or terminate this permit in accordance with OAC Rules 3745-34-07, 3745-34-23, and 3745-34-24. Also, the permit is subject to minor modifications for cause as specified in OAC Rule 3745-34-25. The filing of a request for a permit modification, revocation and reissuance, or termination, or the notification of planned changes, or anticipated noncompliance on the part of the permittee does not stay the applicability or enforceability of any permit condition.
2. Transfer of Permit. This permit may be transferred to a new owner or operator only if it is modified or revoked and reissued pursuant to OAC Rule 3745-34-22(A), 3745-34-23, 3745-34-24, 3745-34-25(D) or 3745-34-26(L)(3), as applicable.

C. SEVERABILITY

The provisions of this permit are severable, and if any provision of this permit or the application of any provision of this permit to any circumstance is held invalid, the application of such provision to any other circumstances and the remainder of this permit shall not be affected thereby.

D. CONFIDENTIALITY

In accordance with OAC Rule 3745-34-03 any information submitted to the Ohio EPA pursuant to this permit may be claimed as confidential by the submitter. Any such claim must be asserted at the time of submission by stamping words "confidential business information" on each page containing such information. If no claim is made at the time of submission, the Ohio EPA may make the information available to the public without further notice. If a claim is asserted, documentation for the claim must be tendered and the validity of the claim will be assessed in accordance with the procedures in OAC Rule 3745-34-03. If the documentation for the claim of confidentiality is not received, the Ohio EPA may deny the claim without further inquiry. Claims of confidentiality for the following information will be denied:

1. The name and address of the permittee;
2. Information which deals with the existence, absence or level of contaminants in receiving water.

E. DUTIES AND REQUIREMENTS (OAC RULE 3745-34-26)

1. Duty to Comply. The permittee shall comply with all applicable UIC regulations and conditions of this permit, issued in accordance with OAC Rule 3745-34-19. Any permit noncompliance constitutes a violation of ORC Chapter 6109. or 6111. and is grounds for enforcement action, permit termination, revocation and reissuance, modification, or denial of a permit renewal application. Such noncompliance also may be grounds for enforcement action under other applicable state and federal law.
2. Penalties for Violations of Permit Conditions. Any person who violates a permit requirement is subject to injunctive relief, civil penalties, fines and/or other enforcement action under ORC Chapters 6111., 6109., or 3734. Any person who knowingly or recklessly violates permit conditions may be subject to criminal prosecution.
3. Continuation of Expiring Permits.
Duty to Reapply. If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee shall submit a complete application for a new permit at least 180 days before expiration of this permit.
4. Need to Halt or Reduce Activity Not a Defense. It shall not be a defense, for a permittee in an enforcement action, that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of these permits.
5. Duty to Mitigate. The permittee shall take all reasonable steps to minimize or correct any adverse impact on the environment resulting from noncompliance with this permit.

6. Proper Operation and Maintenance. The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of these permits. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems only when necessary to achieve compliance with the conditions of this permit.
7. Duty to Provide Information. The permittee shall furnish to the Director, within a time specified, any information which the Director may request in order to determine whether cause exists for renewing, modifying, revoking and reissuing, or terminating this permit. To determine compliance with this permit, or to issue a new permit the permittee shall furnish to the Director, upon request, copies of all records required to be kept by this permit.
8. Inspection and Entry. The permittee shall allow the Director, or an authorized representative, upon the presentation of credentials and other documents as may be required by law to:
 - a. Enter permittee's premises where a regulated facility or activity is located or conducted, or where records are kept under the conditions of this permit;
 - b. Have access at reasonable times to and copy any records that are kept under the conditions of this permit;
 - c. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and
 - d. Sample or monitor at reasonable times for the purposes of assuring permit compliance or as otherwise authorized by ORC Chapter 6111, and OAC Chapter 3745-34, any substances or parameters at any location.
9. Records.
 - a. The permittee shall retain records of all monitoring information, including all calibration and maintenance records and all reports required by this permit for a period of at least five (5) years from the date of the sample, measurement or report or for the duration of the permitted life of the wells, whichever is longer.
 - b. The permittee shall maintain records of all data required to complete the permit application forms for permits and any supplemental information submitted under OAC Rule 3745-34-16 for a period of at least five (5) years from the date the applications were signed. These periods may be extended by request of the Director during that period of time.

- c. The permittee shall retain records concerning the nature and composition of all injected fluids for three (3) years after the project has been completed.
 - d. The permittee shall continue to retain such records after the retention period specified by paragraphs (a) to (c) above, unless he delivers the records to the Director or obtains written approval from the Director to discard the records.
 - e. Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity.
 - f. Records of monitoring information shall include the following as applicable pursuant to OAC Rule 3745-34-26(J)(3):
 - i. The date, exact place, and time of sampling or measurements;
 - ii. The name(s) of the individual(s) who performed the sampling or measurements;
 - iii. A precise description of sampling methodology;
 - iv. The date(s) analyses or measurements were performed;
 - v. The name(s) of the individual(s) who performed the analyses or measurements and the laboratory that performed the analyses or measurements;
 - vi. The analytical techniques or methods used; and
 - vii. All results of such analyses.
10. Signatory Requirements. All reports or other information, required to be submitted by this permit or requested by the Director, shall be signed and certified in accordance with OAC Rule 3745-34-17.
11. Reporting Requirements.
- a. Planned Changes. The permittee shall give written notice to the Director, as soon as possible, of any planned physical alterations or additions to the permitted facility. Within ten (10) days of the verbal notification, or of the commencement of construction, the permittee shall give written notice to the Director with justification of any planned physical alterations to the permitted well(s).
 - b. Anticipated Noncompliance. The permittee shall give advance notice to the Director of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.

- c. Compliance Schedules. Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of these permits shall be submitted no later than thirty (30) days following each schedule date.
- d. Twenty-four (24) Hour Reporting.
 - 1. The permittee shall report to the Director any noncompliance which may endanger health or the environment. Appropriate information shall be provided orally within 24 hours from the time the permittee becomes aware of the circumstances. The following shall be included as information which must be reported orally within 24 hours:
 - i. Any monitoring or other information which indicates that any contaminant may cause an endangerment to an underground source of drinking water.
 - ii. Any noncompliance with a permit condition, or malfunction of the injection system, which may cause unpermitted fluid migration into or between underground sources of drinking water.
 - 2. A written submission also shall be provided within five (5) business days of the time the permittee becomes aware of the circumstances of such noncompliance. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times, the anticipated time it is expected to continue; and if the noncompliance has or has not been corrected, and steps taken or planned to reduce, eliminate and prevent recurrence of the noncompliance.
- e. Other Noncompliance. The permittee shall report all other instances of noncompliance not otherwise reported at the time monitoring reports are submitted. The reports shall contain the information listed in permit condition 11(d)(2) above.
- f. Other Information. When the permittee becomes aware of failure to submit any relevant facts in the permit applications or that incorrect information was submitted in a permit application or in any report to the Director, the permittee shall submit such facts and corrected information within ten (10) days.
- g. The Director shall be notified immediately, in writing, if the person responsible for certification of documents pursuant to OAC Rule 3745-34-17 is changed.

F. PLUGGING AND ABANDONMENT

1. Plan for Plugging and Abandonment. Before any well installed pursuant to this permit is taken out of service, the permittee shall submit to the Ohio Environmental Protection Agency a plan for the plugging and abandonment of such well. The required plan shall specify procedures and contain such other provisions as are necessary to ensure that no movement of fluids into an underground source of drinking water is allowed. After review and acceptance of this plan by the Ohio Environmental Protection Agency, that plan shall automatically become a condition of this permit.
2. Abandonment Requirements. Injection wells declared as temporarily abandoned shall be maintained in strict compliance with Rule 3745-9-09 of the OAC to ensure that the well will not endanger underground sources of drinking water during the period of temporary abandonment. Injection wells declared as permanently abandoned shall be plugged in accordance with Rule 3745-9-10(C) of the OAC.
3. Plugging Report. Within 30 days after plugging the well, the permittee shall submit a plugging report to the Director. The report shall be certified as accurate by the person who performed the plugging operation and shall contain a statement defining the plugging procedure.

G. CORRECTIVE ACTION

1. Should routine monitoring or any other information indicate that primary drinking water standards as defined in Chapter 3745-81 of the OAC are, or may be, exceeded in any underground source of drinking water beyond the property boundary, or any monitored or other parameters are being significantly degraded in underground sources of drinking water not permitted for underground injection and as a consequence of the injection well operation, the permittee shall develop a corrective action plan. Such plan must include a determination of the nature, rate, and extent of the degradation. The plan may also be required to include appropriate remedial actions such as: additional chemical treatment, discontinuance of injection operations and/or others yet to be determined.
2. The plan for corrective action shall be submitted to the Director within 30 days of the date that indications of a violation of Chapter 3745-81 are noted, and are subject to approval by the Ohio EPA prior to implementation.

**PART II
SPECIAL CONDITIONS**

A. WELL OPERATION

1. Injection Zone. The injection zone is the Upper Great Miami Buried Valley Aquifer.
2. Injectate Quality Limits. Injectate shall be comprised of extracted ground water amended with sodium lactate. Constituents present in reinjected ground water shall not exceed the following limits:

1,1,1-Trichloroethane	0.480 mg/l
1,1-Dichloroethene	0.116 mg/l
1,2-Dichloroethane	0.010 mg/l
Carbon Tetrachloride	0.010 mg/l
Cis-1, 2-Dichloroethene	0.360 mg/l
Tetrachloroethene	0.560 mg/l
Trichloroethene	1.720 mg/l
Vinyl Chloride	0.044 mg/l

If at any time analyses indicate that the constituent limits established for reinjected ground water have been exceeded, the Director shall require that the permittee take corrective actions to bring the injected fluids back within the limits established in these permits. Further injection will be prohibited until the permittee adequately demonstrates that the exceedance has been corrected.

3. Injection Rate.

The maximum injection rate per well shall not exceed 100 gallons per minute (gpm).

B. MONITORING

1. Injected Fluids. To be monitored:
 - a. Daily for average rate and injection volume; reported monthly;
 - b. Monthly for 1,1,1-Trichloroethane; 1,1-Dichloroethene; 1,2-Dichloroethane; Carbon Tetrachloride; Cis-1, 2-Dichloroethene; Tetrachloroethene; Trichloroethene; and Vinyl Chloride; reported monthly;
 - c. Quarterly for 1,2-Dichloropropane and 1,1,2-Trichloroethane; reported quarterly.
 - d. Annually for Antimony; Arsenic; Barium; Cadmium; Chromium; Cyanide; Lead; Mercury; and Selenium; reported annually.

C. REPORTING

The permittee shall submit monitoring reports to the Ohio EPA, Division of Drinking and Ground Waters, Underground Injection Control Unit by the 15th day of the month following each month that monitoring results are required in accordance with schedules described in Part II(B) of this permit at the following address:

Ohio EPA
Division of Drinking and Ground Waters
Underground Injection Control Unit
Lazarus Government Center
50 West Town Street, Suite 700
P.O. Box 1049
Columbus, Ohio 43216-1049

Reports shall contain information regarding types of tests and methods used to generate monitoring data, as specified in Part I (E)(10) of this permit.

D. AGENCY INVOLVEMENT

Personnel from the Ohio EPA have unrestricted right of entry to the wells, as detailed in Part I (E)(8) of this permit.