



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: January 23, 2007
RE: Kemira Water Solutions, Inc. / 089-24042-00489
FROM: Nisha Sizemore
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 03/23/06



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We make Indiana a cleaner, healthier place to live.

Mitchell E. Daniels, Jr.
Governor

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January 23, 2007

100 North Senate Avenue
Indianapolis, Indiana 46204-2251
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Mr. Brian Wodetzki
Kemira Water Solutions, Inc.
3761 Canal Street
East Chicago, Indiana 46312

Re: 089-24042-00489
First Notice-only Change to
Registered Operation Status,
089-21908-00489

Dear Mr. Wodetzki:

The operation of Kemiron Great Lakes, LLC located at 3761 Canal Street, East Chicago, Indiana 46312 relating to the Ferrous Chloride (FeCl_2) and Ferric Chloride (FeCl_3) production was registered on December 2, 2005. An application was received December 7, 2006 requesting a change in ownership and operating name. Kemira Water Solutions, Inc. purchased Kemiron Great Lakes, LLC and changed the operating name from Kemiron Great Lakes, LLC, to Kermira Water Solutions, Inc. Based on the data submitted and the provisions in 326 IAC 2-5.5-6(c)(1) and (3), it has been determined that this plant which includes the following equipment will remain as a registered source.

One (1) closed-loop Ferrous Chloride production facility, including the following:

- (1) Tanks No. T310 and T311 for storing hydrochloric acid (HCl), with storage capacities of 20,000 gallons each.
- (2) Tanks No. T101 and T102 for storing Spent Pickle Liquor (SPL), with storage capacities of 100,000 gallons each.
- (3) Scrap metal digesters where FeCl_2 is produced in a continuous reaction system, using SPL and scrap iron as raw materials.
- (4) Three (3) chlorinators operated in series where reaction of FeCl_2 and Chlorine produces FeCl_3 .
- (5) One (1) wet scrubber for scrubbing HCl vapor and hydrogen gas produced, with a control efficiency of 80%.
- (6) One (1) filter press for treating unused scrap iron and carbon, which are then shipped out.
- (7) One (1) 50 MMBtu Natural Gas Boiler, identified as B-01, installed in 2006, exhausting to stack SB-01.

The following conditions shall be applicable:

- (1) Pursuant to 326 IAC 12 and 40 CFR Part 60, the following New Source Performance Standards are applicable to the source:

The 50 MMBtu Boiler is subject to the requirements of New Source Performance Standards 326 IAC 12, 40 CFR 60.40c through 60.48c, Subpart Dc (Standards of Performance for Small Industrial – Commercial – Institutional Steam Generating Units). Since this unit only combusts natural gas, only section 60.48c Reporting and Recordkeeping requirements apply. 40 CFR 60.48(g) requires that the source record and maintain records of the amounts of each fuel combusted during each day. Pursuant to 40 CFR 60.48c(i), records shall be maintained for a period of two years following the date of such record.

- (2) 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 twenty percent (20%) 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 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.
- (3) Pursuant to 326 IAC 6-2-4 (Emission Limitations for facilities specified in 326 IAC 6-2-1(d), Particulate emissions from indirect heating facilities constructed after September 21, 1983 shall be limited by the following equation:

$$Pt = \frac{1.09}{Q^{0.26}}$$

Where Q = total source heat input capacity (MMBtu/hr)
Pt = emission rate limit (lbs/MMBtu)

Therefore, particulate emissions from the 50 mmBtu/hr boiler shall not exceed 0.4 lb/mmBtu heat input.

This registration is the third air approval 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 46204-2251**

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.

Sincerely,

Original document signed by

Iryn Calilung, Section Chief
Permits Branch
Office of Air Quality

IC/gkf

cc: File - Lake County
Lake County Health Department
Air Compliance – Rick Massoels
IDEM Northwest Regional Office
Permit Review Section 4 – Gary Freeman
Compliance Data Section
Billing, Licensing and Training Section

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:	Kemira Water Solutions, Inc.
Address:	3761 Canal Street,
City:	East Chicago, Indiana 46312
Authorized individual:	Brian E. Wodetzki
Phone #:	(219) 397-2646
Registration #:	089-21908-00489

I hereby certify that Kemira Water Solutions, Inc. is still in operation and is in compliance with the requirements of Registration 089-21908-00489.

Name (typed):
Title:
Signature:
Date:

Indiana Department of Environmental Management Office of Air Quality

Technical Support Document (TSD) for a Reregistered Operation Status, Notice-only Change

Source Background and Description

Source Name:	Kermira Water Solutions, Inc.
Source Location:	3761 Canal Street, East Chicago, Indiana 46312
County:	Lake
SIC Code:	(2819)
Operation Permit No.:	089-21908-00489
Operation Permit Issuance Date:	December 2, 2005
Notice-only Change No.:	089-24042-00489
Permit Reviewer:	Gary Freeman

The Office of Air Quality (OAQ) has reviewed an application from Kermira Water Solutions, Inc. relating to the operation of a Ferrous Chloride (FeCl_2) and Ferric Chloride (FeCl_3) production.

Permitted Emission Units and Pollution Control Equipment

No changes that would affect operations at the plant

Unpermitted Emission Units and Pollution Control Equipment

None

Justification for the Notice-only Change

The operation of Kemiron Great Lakes, LLC located at 3761 Canal Street, East Chicago, Indiana 46312 relating to the Ferrous Chloride (FeCl_2) and Ferric Chloride (FeCl_3) production was registered on October 25, 2005. An application was received December 7, 2006 requesting a change in ownership and operating name. Kemira Water Solutions, Inc. purchased Kemiron Great Lakes, LLC and changed the operating name from ~~Kemiron Great Lakes, LLC~~, to **Kermira Water Solutions, Inc.** Based on the data submitted and the provisions in 326 IAC 2-5.5-6(c)(1) and (3), it has been determined that this plant which includes the following equipment will remain as a registered source.

The following conditions shall be applicable:

1. (2)(b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of ~~45~~ **fifteen (15) minutes (sixty (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~~ **continuous** opacity monitor) in a six (6) hour period.

2.

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:	Kemiron Great Lakes Kemira Water Solutions, Inc.
Address:	3761 Canal Street
City:	Muncie, Indiana 47302
Authorized individual:	Timothy Harris Tim Pendley
Phone #:	((219) 397-2646
Registration #:	089-21908-00489

I hereby certify that ~~Witt Industries, Inc., Galvanizing Division~~ **Witt Galvanizing - Muncie** is still in operation and is in compliance with the requirements of Registration 035-12966-00037.

Name (typed):
Title:
Signature:
Date:

Conclusion

The construction and operation of this hot dip galvanizing plant shall be subject to the conditions of the Regeistration Operation Status No. 035-24023-00037.