INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
We Protect Hoosiers and Our Environment.

Mitchell E. Daniels Jr.
Governor

Thomas W. Easterly
Commissioner

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

TO: Interested Parties / Applicant

DATE: January 7, 2009

RE: Dow Corning, STI / 113-27277-00055

FROM: Matthew Stuckey, Branch Chief
Permits Branch
Office of Air Quality

Notice of Decision – Approval

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 326 IAC 2, this approval was effective immediately upon submittal of the application.

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, Suite N 501E, Indianapolis, IN 46204, **within eighteen (18) calendar days from 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
FNPER-AM.dot12/3/07

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Mr. Robert Crosby
Dow Corning, STI
P.O. Box 369
Kendallville, IN 46755

January 7, 2009

Re: Registration Notice-Only Change
No. R113-27277-00055

Dear Mr. Crosby:

Dow Corning, STI was issued a Registration No. R113-10553-00055 on March 8, 1999 for a stationary silicone rubber manufacturing facility located at 111 South Progress Drive East, Kendallville, IN 46755. On December 18, 2008, the Office of Air Quality (OAQ) received a letter from the source requesting that the registration be updated to indicate that the existing bag dump station (MH-402) has the ability to dump raw materials using either an automated or manual system. The two systems cannot operate at the same time and the bag dump station cannot use more powder than originally noted in the registration. The potential emissions of PM and PM10 will not increase due to this revision and the uncontrolled/unlimited potential to emit of the entire source will continue to be within the threshold levels specified in 326 IAC 2-5.5-1(b)(1). This change to the registration is considered a notice-only change pursuant to 326 IAC 2-5.5-6(d)(2).

In addition, IDEM has begun implementing a new procedure and will no longer list the name or title of the Authorized Individual (AI) in registrations. Pursuant to 326 IAC 2-5.5-6, the registration is hereby revised as follows, with deleted language as ~~strikeouts~~ and new language **bolded**:

...

(h) One (1) rubber compound manufacturing process, consisting of the following emission units:

(1) ~~One~~ **Two** (~~1~~2) bag dump stations, ~~identified as MH-402,~~ with a maximum capacity of 0.086 tons of rubber per hour~~,~~**; consisting of one (1) automated bag dump, identified as MH-422 and one (1) manual bag dump, identified as MH-402;** with particulate controlled by a bin vent **for each**, and exhausting to the atmosphere through **Stack MH-422 for MH-422 and through** Stack MH-402~~.~~ **for MH-402.**

...

The source shall continue to operate according to 326 IAC 2-5.5. Please find enclosed the revised registration. A copy of the registration is available on the Internet at: http://www.in.gov/ai/appfiles/idem-caats/. For additional information about air permits and how the public and interested parties can participate, refer to the IDEM's Guide for Citizen Participation and Permit Guide on the Internet at: www.idem.in.gov

This decision is subject to the Indiana Administrative Orders and Procedures Act - IC 4-21.5-3-5. If you have any questions on this matter, please contact Brian Williams, at (800) 451-6027, press 0 and ask for Brian Williams or extension 4-5375, or dial (317) 234-5375.

Sincerely,

Iryn Calilung, Section Chief
Permits Branch
Office of Air Quality

IC/BMW

Attachment: Revised Registration

cc: File - Noble County
Noble County Health Department
Air Compliance Section
IDEM Northern Regional Office
Compliance Data Section
Permits Administrative and Development
Billing, Licensing and Training Section

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REGISTRATION
OFFICE OF AIR QUALITY

Dow Corning, STI
111 South Progess Drive East
Kendallville, Indiana 46755

Pursuant to 326 IAC 2-5.1 (Construction of New Sources: Registrations) and 326 IAC 2-5.5 (Registrations), (herein known as the Registrant) is hereby authorized to construct and operate subject to the conditions contained herein, the source described in Section A (Source Summary) of this registration.

Registration No. 113-10553-00055	
Original signed by: Paul Dubenetzky, Chief Permits Branch Office of Air Quality	Issuance Date: March 8, 1999
Registration Revision No. 113-12767-00055, issued on December 1, 2000 First Registration Notice-Only Change No. 113-25781-00055, issued on January 30, 2008	

Second Registration Notice-Only Change No. 113-27277-00055	
Issued by: Iryn Calilung, Section Chief Permits Branch Office of Air Quality	Issuance Date: January 7, 2009

SECTION A SOURCE SUMMARY

This registration is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ). The information describing the source contained in conditions A.1 and A.2 is descriptive information and does not constitute enforceable conditions. However, the Registrant should be aware that a physical change or a change in the method of operation that may render this descriptive information obsolete or inaccurate may trigger requirements for the Registrant to obtain additional permits pursuant to 326 IAC 2.

A.1 General Information

The Registrant owns and operates a stationary silicone rubber manufacturing facility.

Source Address:	111 South Progress Drive East, Kendallville, Indiana 46755
Mailing Address:	P.O. Box 369, Kendallville, Indiana 46755
General Source Phone Number:	(260) 343-2380
SIC Code:	2822
County Location:	Noble County
Source Location Status:	Attainment for all criteria pollutants
Source Status:	Registration

A.2 Emission Units and Pollution Control Equipment Summary

This stationary source consists of the following emission units and pollution control devices:

(a) Seven (7) sigma blade style mixers, each with a continuous nitrogen purge:

(1) Two (2) base mixers, identified as M-101 and M-102, with a combined maximum process rate of 153 pounds per hour, venting through individual dump station baghouse filter systems and then exhausting at ambient temperatures to Stacks M-101 and M-102, respectively; and

(2) Four (4) compound mixers with a combined maximum process rate of 451.2 pounds per hour, venting through individual bag filters and then exhausting at ambient temperature: M-103 to Stack M-103; M-104 to Stack M-104; M-105 to Stack M-105, and M-108 to Stack M-108; each with a maximum design flow rate of 5 dscm.

(b) One (1) outdoor silo for storage of fumed silica products, identified as MH-127, with a capacity of 39,000 pounds, including one (1) diaphragm pump with a dilute phase transfer loading rate of 7,200 lb/hr, with PM emissions controlled by baghouse 11 and exhausted to a bin vent stack identified as Stack MH-127.

(c) One (1) PRISM silicone rubber manufacturing operation, identified as PRISM, with emissions controlled by a vent condenser, identified as HX-103, and a baghouse, identified as DC-103, with emissions exhausting to stack DC-103.

(d) One (1) 5 micron silica storage silo (MH-140) with capacity of 100,000 lbs including one (1) pneumatic transporter with a maximum rate of 3,000 lbs/hr with PM emissions controlled with a bin vent and exhausting to stack MH-140.

(e) One (1) 10 micron silica storage silo (MH-142) with a capacity of 100,000 lbs including one (1) pneumatic transporter with a maximum rate of 3,000 lbs/hr, with PM emission controlled with a bin vent and exhausting to stack MH-142.

(f) Three (3) weigh hoppers, identified as MH-103, MH-104, and MH-105, equipped with bin vents that vent to the atmosphere.

(g) Two (2) compounding mixers (M-106 and M-107) equipped with one (1) weigh hopper (MH-106 and MH-107), each. Both the mixers and the weight hoppers are equipped with bin vents that emit into the atmosphere through Stack M-106, M-107, MH-106, and MH-107.

(h) One (1) rubber compound manufacturing process, consisting of the following emission units:

(1) Two (2) bag dump stations, with a maximum capacity of 0.086 tons of rubber per hour; consisting of one (1) automated bag dump, identified as MH-422 and one (1) manual bag dump, identified as MH-402; with particulate controlled by a bin vent for each, and exhausting to the atmosphere through Stack MH-422 for MH-422 and through Stack MH-402 for MH-402.

(2) One (1) weigh hopper, identified as MH-403, with a maximum capacity of 0.086 tons of rubber per hour, with particulate controlled by a bin vent, and exhausting to the atmosphere through Stack MH-403.

(3) One (1) 600L mixer, identified as M-404, with a maximum capacity of 0.086 tons of rubber per hour, with particulate controlled by a pulse filter, and exhausting to the atmosphere through Stack MH-404.

(4) One (1) 110L mixer, identified as M-405, with a maximum capacity of 0.086 tons of rubber per hour, with particulate controlled by a bin vent, and exhausting to the atmosphere through Stack MH-405.

(i) One (1) natural gas-fired boiler, identified as UT-106, with a maximum heat input rate of 3.0 MMBtu/hr, and exhausting to stack UT-106.

(j) One (1) 3.4 MMBtu/hr natural gas fired steam boiler, identified as UT-126, with emission exhausted through Stack UT-126.

SECTION B GENERAL CONDITIONS

B.1 Definitions [326 IAC 2-1.1-1]

Terms in this registration shall have the definition assigned to such terms in the referenced regulation. In the absence of definitions in the referenced regulation, the applicable definitions found in the statutes or regulations (IC 13-11, 326 IAC 1-2 and 326 IAC 2-1.1-1) shall prevail.

B.2 Effective Date of Registration [IC 13-15-5-3]

Pursuant to IC 13-15-5-3, this registration is effective immediately, unless a petition for stay of effectiveness is filed and granted according to IC 13-15-6-3, and may be revoked or modified in accordance with the provisions of IC 13-15-7-1.

B.3 Registration Revocation [326 IAC 2-1.1-9]

Pursuant to 326 IAC 2-1.1-9 (Revocation), this registration to operate may be revoked for any of the following causes:

(a) Violation of any conditions of this registration.

(b) Failure to disclose all the relevant facts, or misrepresentation in obtaining this registration.

(c) Changes in regulatory requirements that mandate either a temporary or permanent reduction of discharge of contaminants. However, the amendment of appropriate sections of this registration shall not require revocation of this registration.

(d) For any cause which establishes in the judgment of IDEM, the fact that continuance of this registration is not consistent with purposes of this article.

B.4 Prior Permits Superseded [326 IAC 2-1.1-9.5]

(a) All terms and conditions of permits established prior to Registration No. 113-10553-00055 and issued pursuant to permitting programs approved into the state implementation plan have been either:

(1) incorporated as originally stated,

(2) revised, or

(3) deleted.

(b) All previous registrations and permits are superseded by this registration.

B.5 Annual Notification [326 IAC 2-5.1-2(f)(3)] [326 IAC 2-5.5-4(a)(3)]

Pursuant to 326 IAC 2-5.1-2(f)(3) and 326 IAC 2-5.5-4(a)(3):

(a) An annual notification shall be submitted by an authorized individual to the Office of Air Quality stating whether or not the source is in operation and in compliance with the terms and conditions contained in this registration.

(b) The annual notice shall be submitted in the format attached no later than March 1 of each year to:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003

Indianapolis, IN 46204-2251

(c) The notification shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.

B.6 Source Modification Requirement [326 IAC 2-5.5-6(a)]

Pursuant to 326 IAC 2-5.5-6(a), 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.

B.7 Registrations [326 IAC 2-5.1-2(i)]

Pursuant to 326 IAC 2-5.1-2(i), this registration does not limit the source's potential to emit.

SECTION C **SOURCE OPERATION CONDITIONS**

Entire Source

Emission Limitations and Standards [326 IAC 2-5.1-2(g)] [326 IAC 2-5.5-4(b)]

C.1 Opacity [326 IAC 5-1]

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, unless otherwise stated in this registration:

(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 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.

C.2 Fugitive Dust Emissions [326 IAC 6-4]

The Registrant 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 (Fugitive Dust Emissions).

SECTION D.1 OPERATION CONDITIONS

Facility Description [326 IAC 2-5.1-2(f)(2)] [326 IAC 2-5.5-4(a)(2)]:

(a) Seven (7) sigma blade style mixers, each with a continuous nitrogen purge:

(1) Two (2) base mixers, identified as M-101 and M-102, with a combined maximum process rate of 153 pounds per hour, venting through individual dump station baghouse filter systems and then exhausting at ambient temperatures to Stacks M-101 and M-102, respectively; and

(2) Four (4) compound mixers with a combined maximum process rate of 451.2 pounds per hour, venting through individual bag filters and then exhausting at ambient temperature: M-103 to Stack M-103; M-104 to Stack M-104; M-105 to Stack M-105, and M-108 to Stack M-108; each with a maximum design flow rate of 5 dscm.

(b) One (1) outdoor silo for storage of fumed silica products, identified as MH-127, with a capacity of 39,000 pounds, including one (1) diaphragm pump with a dilute phase transfer loading rate of 7,200 lb/hr, with PM emissions controlled by baghouse 11 and exhausted to a bin vent stack identified as Stack MH-127.

(c) One (1) PRISM silicone rubber manufacturing operation, identified as PRISM, with emissions controlled by a vent condenser, identified as HX-103, and a baghouse, identified as DC-103, with emissions exhausting to stack DC-103.

(d) One (1) 5 micron silica storage silo (MH-140) with capacity of 100,000 lbs including one (1) pneumatic transporter with a maximum rate of 3,000 lbs/hr with PM emissions controlled with a bin vent and exhausting to stack MH-140.

(e) One (1) 10 micron silica storage silo (MH-142) with a capacity of 100,000 lbs including one (1) pneumatic transporter with a maximum rate of 3,000 lbs/hr, with PM emission controlled with a bin vent and exhausting to stack MH-142.

(f) Three (3) weigh hoppers, identified as MH-103, MH-104, and MH-105, equipped with bin vents that vent to the atmosphere.

(g) Two (2) compounding mixers (M-106 and M-107) equipped with one (1) weigh hopper (MH-106 and MH-107), each. Both the mixers and the weight hoppers are equipped with bin vents that emit into the atmosphere through Stack M-106, M-107, MH-106, and MH-107.

(h) One (1) rubber compound manufacturing process, consisting of the following emission units:

(1) Two (2) bag dump stations, with a maximum capacity of 0.086 tons of rubber per hour; consisting of one (1) automated bag dump, identified as MH-422 and one (1) manual bag dump, identified as MH-402; with particulate controlled by a bin vent for each, and exhausting to the atmosphere through Stack MH-422 for MH-422 and through Stack MH-402 for MH-402.

(2) One (1) weigh hopper, identified as MH-403, with a maximum capacity of 0.086 tons of rubber per hour, with particulate controlled by a bin vent, and exhausting to the atmosphere through Stack MH-403.

(3) One (1) 600L mixer, identified as M-404, with a maximum capacity of 0.086 tons of rubber per hour, with particulate controlled by a pulse filter, and exhausting to the

atmosphere through Stack MH-404.

(4) One (1) 110L mixer, identified as M-405, with a maximum capacity of 0.086 tons of rubber per hour, with particulate controlled by a bin vent, and exhausting to the atmosphere through Stack MH-405.

(The information describing the process contained in this emissions unit description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards [326 IAC 2-5.1-2(f)(1)] [326 IAC 2-5.5-4(a)(1)]

D.1.1 Particulate [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the particulate emission rate from the following emission units and control devices shall not exceed the particulate emission rates listed in the table below when operating at the stated process weight rates:

The pound per hour limitation was calculated with the following equation:

Interpolation of the data for the process weight rate up to 60,000 pounds per hour shall be accomplished by use of the equation:

$E = 4.10\ P^{0.67}$

Where E = rate of emission in pounds per hour; and
P = process weight rate in tons per hour

Emission Unit	Process weight rate (tons per hour)	Allowable particulate emission rate (pounds per hour)
M-101 and M-102	0.077	0.73
MH-103, MH-104, MH-105, MH-106, and MH-107	0.085	0.79
MH-127	3.6	9.67
MH-140 and MH-142	5.0	12.05
HX-103	1.80	6.08

Compliance Determination Requirements [326 IAC 2-5.1-2(g)] [326 IAC 2-5.5-4(b)]

D.1.2 Particulate Control

In order to comply with Condition D.1.1, the control equipment for particulate control shall be in operation and control emissions from the five (5) weight hoppers (MH-103 through MH-107), outdoor silo (MH-127), 5 micron silica silo (MH-140), 10 micron silica silo (MH-142), and the Prism silicone rubber manufacturing operation (HX-103) at all times when these units are in operation.

SECTION D.2 **OPERATION CONDITIONS**

Facility Description [326 IAC 2-5.1-2(f)(2)] [326 IAC 2-5.5-4(a)(2)]:

(i) One (1) natural gas-fired boiler, identified as UT-106, with a maximum heat input rate of 3.0 MMBtu/hr, and exhausting to stack UT-106.

(j) One (1) 3.4 MMBtu/hr natural gas fired steam boiler, identified as UT-126, with emission exhausted through Stack UT-126.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards [326 IAC 2-5.1-2(f)(1)] [326 IAC 2-5.5-4(a)(1)]

D.2.1 Particulate Emissions [326 IAC 6-2-4]

Pursuant to 326 IAC 6-2-4 (Particulate Emission Limitations for Sources of Indirect Heating), particulate emissions from UT-106 and UT-126 shall be limited to 0.6 pounds per MMBtu heat input, each.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE BRANCH

REGISTRATION
ANNUAL NOTIFICATION

This form should be used to comply with the notification requirements under 326 IAC 2-5.1-2(f)(3) and 326 IAC 2-5.5-4(a)(3).

Company Name:	Dow Corning, STI
Address:	111 South Progress Drive East
City:	Kendallville, Indiana 46755
Phone Number:	(260) 343-2380
Registration No.:	113-10553-00055

I hereby certify that Dow Corning, STI is :
- ☐ still in operation.
- ☐ no longer in operation.

I hereby certify that Dow Corning, STI is :
- ☐ in compliance with the requirements of Registration No. 113-10553-00055.
- ☐ not in compliance with the requirements of Registration No. 113-10553-00055.

Authorized Individual (typed):
Title:
Signature:
Phone Number:
Date:

If there are any conditions or requirements for which the source is not in compliance, provide a narrative description of how the source did or will achieve compliance and the date compliance was, or will be achieved.

Noncompliance: