10/2/08.
Received
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HARODITE INDUSTRIES, Inc.
66 South Street
Taunton, MA
02780-4357
Tel: 508-824-6961
Fax: 508-880-0696
Web site: www.harodite.com

September 23, 2008

David Webster, Chief

Industrial Permits Branch

MAG250032

EPA Region 1

Office of Ecosystem Protection (CMU)

One Congress Street

Boston, Ma 02114-2023

32 of

Re: NOI for Non contacting Cooling Water General Permit MAG250023

Dear Mr. Webster

In response to your letter dated August 1, 2008, enclosed is the Notice of Intent for the Noncontact Cooling Water General Permit. We have been under the NPDES permit # MAG250023.

We have filled it out to the best of our ability and if there is anything else that we need to do, please let me know.

Thank you

Ozzie Medeiros

Operations Manager

Harodite Industries

66 South Street

Taunton, Ma 02780

MAG250032

APPENDIX 5

Suggested Form for Notice of Intent (NOI) for the Noncontact Cooling Water General Permit

1. General facility information. Please provide the following information about the facility.

a) Name of facility: HARODITE INDUSTRICS		**Type of Business:** MANUFACTURING PLANT
Facility Location Address : 66 SOUTH ST TAUNTON, MA, 02780 **longitude:** 41 **latitude:** 71	**Facility SIC codes:** 313000	**Facility Mailing Address (if not location address)**
b) Name of facility owner: Aaron Albert		**Email address of owner:** Aalbert@harodite.com
Owner's Tel #: 508 824-6961 **Owner's Fax #** 508 880-0696		**Owner is (check one): 1. Federal**____ **2. State** _____ **3.Tribal**_____ **4. Private** ✓ **4. Other** _____**(Describe)**
Address of owner (if different from facility address)		

Legal name of Operator, if not owner: _____

Operator Contact Name: _____

Operator Tel Number: _____ **Fax Number:** _____

Operator's email: _____

Operator Address (if different from owner)

d) Attach topographic map indicating the locations of the facility and the receiving water; all NCCW discharge points; upstream and downstream monitoring points. Map attached? YES

e) Check Yes or No for the following:

1. **Has a prior NPDES permit been granted for the discharge? Yes** ✓ **No**____ **If Yes, Permit Number:** MAG250032
2. **Is the discharge a "new discharge" as defined by 40 CFR Section 122.22? Yes**_____ **No** ✓
3. **Is the facility covered by an individual NPDES permit? Yes**____ **No** ✓ **If Yes, Permit Number** ____
4. **Is there a pending application on file with EPA for this discharge? Yes** _____ **No** ✓ **If Yes, date of submittal:**

2. Discharge information. Please provide information about the discharge, (attaching additional sheets as needed)

a) Name of receiving water into which discharge will occur: THREE MILE RIVER
State Water Quality Classification: Class B Freshwater: ✓ Marine Water: _____

b) Describe the discharge activities for which the owner/applicant is seeking coverage: NON CONTACT COOLING WATER

c) FOR MASSACHUSETTS FACILITIES ONLY: Engineering Calculations: Submit the completed engineering calculation of the surface water temperature rise as shown in Attachment A of the General Permit. Check if attached: ✓

d) Number of outfalls 2

For each outfall: SITE #5

e) What is the maximum daily and average monthly flow of the discharge? Note that EPA will use the flow reported here as the facility's permitted effluent flow limit. Max Daily Flow .04935 GPD Average Flow .019367 GPD

f) What is the maximum daily and average monthly temperature of the discharge (in degrees F)? Max Temp. 80 Average Temp. 70

g) What is the maximum and minimum monthly pH of the discharge (in s.u.)? Max pH 7.6 Min pH 6.7

h) FOR MASSACHUSETTS FACILITIES ONLY: Is the source water of the NCCW potable water? Yes _____ No ✓ If Yes, EPA will calculate the Total Residual Chlorine limit for facilities located in Massachusetts.

i) Is the discharge continuous? Yes _____ No ✓ If no, is the discharge periodic (P) (occurs regularly, i.e., monthly or seasonally, but is not continuous all year) or intermittent (I) (occurs sometimes but not regularly) or both (B) B
If (P), number of days or months per year of the discharge _____ and the specific months of discharge _____;
If (I), number of days/year there is a discharge _____

j) Latitude and longitude of each discharge within 100 feet: outfall 1: long. 41 lat. 71; outfall 2: long._____lat._____;
outfall .3: long._____lat._____ (See http://www.epa.gov/tri/report/siting_tool)

k) Provide the reported or calculated seven day-ten year low flow (7Q10) of the receiving water 7 cfs
Please attach any calculation sheets used to support stream flow and dilution calculations. See General Permit Attachment B for equations and additional information.

MASSACHUSETTS FACILITIES: See Part 3.4 and Appendix 1 of the General Permit for more information on ACEC.
Areas of Critical Environmental Concern (ACEC): Does the discharge occur in an ACEC? Yes _____ No ✓
If yes, provide the name of the ACEC: _____

2. Discharge information. Please provide information about the discharge, (attaching additional sheets as needed)

a) Name of receiving water into which discharge will occur: THREE MILE RIVER
State Water Quality Classification: CLASS B Freshwater: ✓ Marine Water: _____

b) Describe the discharge activities for which the owner/applicant is seeking coverage: NON CONTACT COOLING WATER

c) FOR MASSACHUSETTS FACILITIES ONLY: Engineering Calculations: Submit the completed engineering calculation of the surface water temperature rise as shown in Attachment A of the General Permit. Check if attached: ✓

d) Number of outfalls 2

For each outfall: SITE #4

e) What is the maximum daily and average monthly flow of the discharge? Note that EPA will use the flow reported here as the facility's permitted effluent flow limit. Max Daily Flow .0431 GPD Average Flow .0165 GPD

f) What is the maximum daily and average monthly temperature of the discharge (in degrees F)? Max Temp. 80 Average Temp. 67

g) What is the maximum and minimum monthly pH of the discharge (in s.u.)? Max pH 7.4 Min pH 6.6

h) FOR MASSACHUSETTS FACILITIES ONLY: Is the source water of the NCCW potable water? Yes_____ No ✓ If Yes, EPA will calculate the Total Residual Chlorine limit for facilities located in Massachusetts.

i) Is the discharge continuous? Yes _____ No ✓ If no, is the discharge periodic (P) (occurs regularly, i.e., monthly or seasonally, but is not continuous all year) or intermittent (I) (occurs sometimes but not regularly) or both (B) B
If (P), number of days or months per year of the discharge _____ and the specific months of discharge _____;
If (I), number of days/year there is a discharge _____

j) Latitude and longitude of each discharge within 100 feet: outfall 1: long. 41 lat. 71; outfall 2: long._____lat._____;
outfall .3: long._____lat._____ (See http://www.epa.gov/tri/report/siting_tool)

k) Provide the reported or calculated seven day-ten year low flow (7Q10) of the receiving water 7 cfs
Please attach any calculation sheets used to support stream flow and dilution calculations. See General Permit Attachment B for equations and additional information.

MASSACHUSETTS FACILITIES: See Part 3.4 and Appendix 1 of the General Permit for more information on ACEC.
Areas of Critical Environmental Concern (ACEC): Does the discharge occur in an ACEC? Yes _____ No ✓
If yes, provide the name of the ACEC: _____

3. NCCW Source Water Information. Please provide information about the NCCW source water, using separate sheets as necessary:

a) Indicate source of the NCCW (i.e., municipal water supply, private well, surface water withdrawal, groundwater):	b) If source water is surface water:
Source: RIVER WATER Name of Source Water: Three Mile River Is the source registered/permitted under MA Water Management Act or NHDES Water User Registration Rule (Env Wq 2202)? Yes_____ No_____ If yes, registration number: _____	i) Is it a freshwater river or stream Yes ✓ No_____ ii) Is it a lake? _____ reservoir?_____ iii) Is it tidal river? ✓ estuary? _____ ocean?_____ c) Is the source water groundwater? Yes _____ No ✓ If yes, see Appendix 8 and submit effluent and surface water test results, as required in Part 5.4 of the General Permit. d) Does the facility use both a primary and backup source of noncontact cooling water? Yes _____ No ✓ If yes, attach information that identifies and explains the primary and backup sources of noncontact cooling water for and how often the backup supply was used in last three years.

4. Best Technology Available for CWIS

Are you subject to BTA requirements at Part 4.2 of the General Permit? (Facility's discharge is covered by this General Permit and the facility withdraws noncontact cooling water from surface source water). Yes ✓ No_____ If No, explain:

If YES, attach the facility-specific BTA description as required in Part 4.3 of the General Permit. For additional information and guidance, see Questions 13-23 of the NCCW Fact Sheet, posted at http://www.epa.gov/region1/npdes/nccwgp.html. Provide a map showing the location of each CWIS intake structure; NCCW outfall(s) and any CWIS feature referred to in the BTA description.

Include in your description:

- ✓ **Measures to meet the General Permit Part 4.3.a general BTA requirements, including documentation that describes the facility's monitoring program for impinged fish and/or invertebrate; or the required alternative monitoring plan frequency and/or protocol**
- _____ **A characterization of the source water body's aquatic life habitat in the vicinity of each CWIS during the seasons when the CWIS may be in use**
- _____ **The attributes of the current CWIS**
- _____ **Design measures of the CWIS**
- _____ **Operation measures of the CWIS**
- _____ **Historical occurrence of impinged fish for the past five years**
- _____ **If applicable, a demonstration that the facility's intake rate is commensurate with a closed-cycle recirculation system**
- _____ **Other components to reduce impingement and/or entrainment of aquatic life**

4. BTA FOR CWIS CONTINUED:

Provide the following information for each CWIS to support your attached facility-specific BTA description.
Design capacity of the of the CWIS _____MGD
Maximum monthly average intake of the CWIS during the previous five years _____MGD Month in which this flow occurred _____
Maximum through-screen design intake velocity _____feet/second (fps)

For facilities where the CWIS is located on a freshwater river or stream, provide the following information:
The source water's annual mean flow _____cubic feet/second (cfs) as available from USGS or other appropriate source
The design intake flow as a % of the source water's annual mean flow _____ Attach calculations if equal to or less than 5% of annual mean flow.
The source water's 7Q10 _7_cfs. See Attachment B of the General Permit for more information on 7Q10 determinations.
The design intake flow as a percent of the source water's 7Q10 _____

5. Contaminant Information

If applicable, attach a listing of all non-toxic pH neutralization and/or dechlorination chemicals used, including chemical name and manufacturer; maximum and average daily quantity used as well as the maximum and average daily expected concentrations (mg/l) in the NCCW discharge, and the vendor's reported aquatic toxicity (NOAEL and/or LC_{50} in percent for aquatic organism(s)).

6. Determination of Endangered Species Act Eligibility: Provide documentation of ESA eligibility as required at Part 3.4 and Appendix 2, Part C, Step 4, of the General Permit. In addition, respond to the following questions.

a) Are any listed threatened or endangered species, or designated critical habitat, in proximity to the discharge? Yes___No_✓_
b) Has any consultation with the federal services been completed? Yes___ No_✓_
c) Is consultation underway? Yes____ No_✓_
d) What were the results of the consultation with the U.S. Fish and Wildlife Service and/or NOAA Fisheries Service (check one):
a "no jeopardy" opinion _____or written concurrence____ on a finding that the discharges are not likely to adversely affect any endangered species or
e) Which of the five eligibility criteria listed in Appendix 2, Section B (A,B,C,D or E) have you met? _____
f) Attach a copy of the most current federal listing of endangered and threatened species from the USF&W web site listed in Appendices 2, 2.1 and 4

7. Documentation of National Historic Preservation Act requirements: Please respond to the following questions:

a) Are any historic properties listed or eligible for listing on the National Register of Historic Places located on the facility site or in proximity to the discharge? Yes_____ No_✓_

b) Have any State or Tribal historic preservation officers been consulted in this determination? Yes _____ or No_✓_ If yes, attach the results of the consultation(s).

c) Which of the three National Historic Preservation Act requirements listed in Appendix 3, Section C (1,2 o3) have you met? _N/A_

8. Supplemental Information: Please provide any supplemental information. Attach any analytical data used to support the application. Attach any certification(s) required by the general permit

9. Signature Requirements: The Notice of Intent must be signed by the operator in accordance with the signatory requirements of 40 CFR Section 122.22 (see below) including the following certification:

I certify under penalty of law that (1) no biocides or other chemical additives except for those used for pH adjustment and/or dechlorination are used in the noncontact cooling water (NCCW) system; (2) the discharge consists solely of NCCW (to reduce temperature) and authorized pH adjustment and/or dechlorination chemicals; (3) the discharge does not come in contact with any raw materials, intermediate product, water product (other than heat) or finished product; (4) if the discharge of noncontact cooling water subsequently mixes with other wastewater (i.e.stormwater) prior to discharging to the receiving water, any monitoring provided under this permit will be only for noncontact cooling water; (5) where applicable, the facility has complied with the requirements of this permit specific to the Endangered Species Act and National Historic Preservation Act; and (6) this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted.

Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, I certify that the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I certify that I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Facility Name: HARODITE INDUSTRIES

Operator signature: 

Title: President

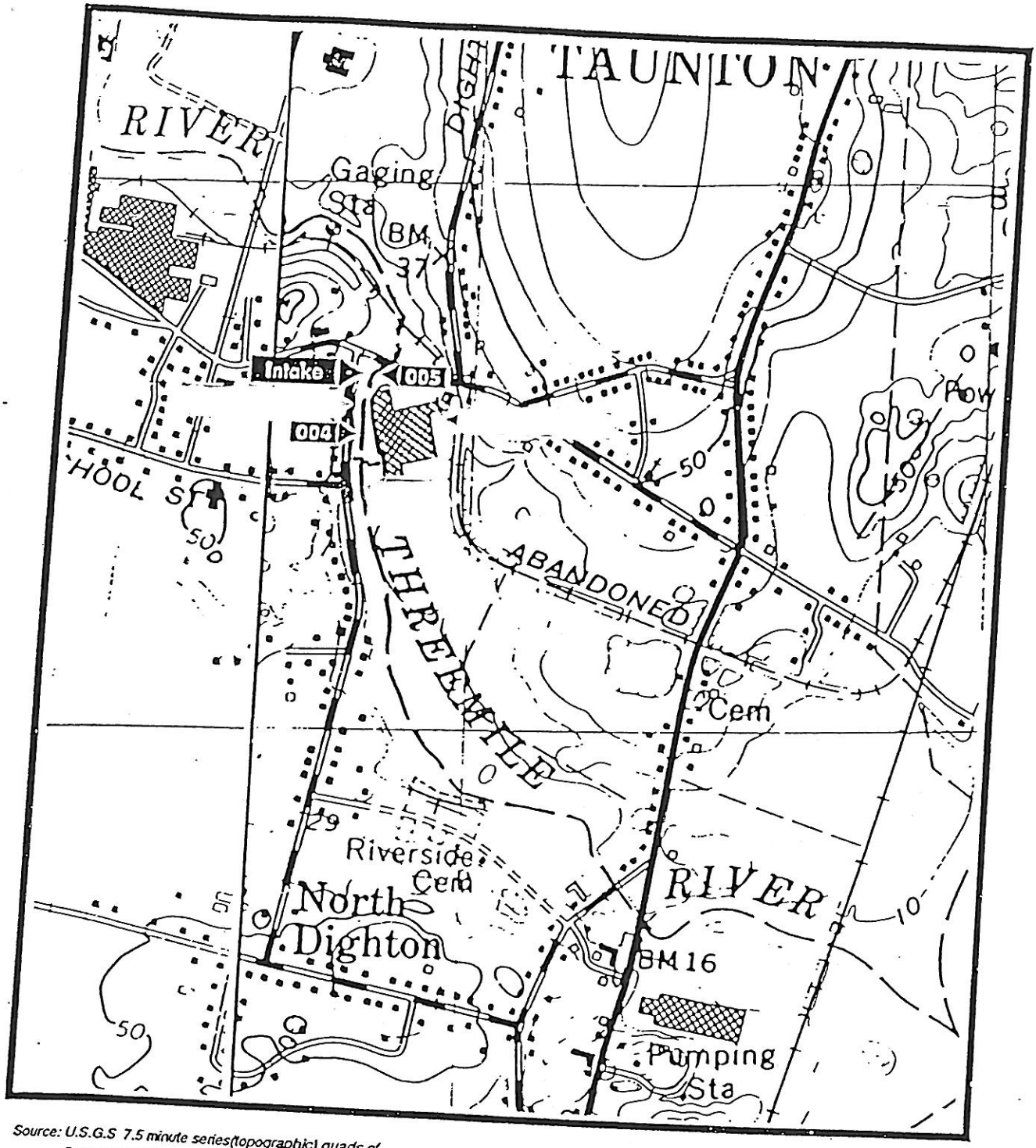
Date: 9-22-08

Federal regulations require this application to be signed as follows:
1. For a corporation, by a principal executive officer of at least the level of vice president;
2. For a partnership or sole proprietorship, by a general partner or the proprietor, respectively, or,
3. For a municipality, State, Federal or other public facility, by either a principal executive officer or ranking elected official.

Best Technology Available PART #4

Harodite Industries has been in operations since 1910 and is located on the Three Mile River in Taunton, Ma. Harodite has use river water for non contact cooling water under General Permit MAG250032 and NPDES permit # MA000761.

Harodite's intake water pipe is located up steam and is protected by a grate system with ½ x ½ slots. This intake is approximately a three foot pipe that is constantly under water. The water is then gravity feed to a 12' x 12' cement holding pond located outside the facility with the over flow allowed to flow back into the river. In this cement pond, Harodite uses a pump system to pump water into the facility. This pumping system is protected by a 1/8 x 1/8 screen cage. Harodite periodically drains and cleans this pond out. No wild life has been found during this draining and cleaning of the pond.



Source: U.S.G.S 7.5 minute series(topographic) quads of Somerset and Assonet, MA

0 .5 1 mile

N

→ To: Ozzie Medeiros

Keohane, Kathleen (DEP)

From: Ozzie Medeiros [OzzieM@harodite.com]
Sent: Wednesday, September 24, 2008 10:46 AM
To: Keohane, Kathleen (DEP)
Subject: NOI for Noncontact Cooling Water (MAG250023)

Good Morning Kathleen Keohane

Harodite Industries
Our Permit # is MAG250023

I was referred to you by Austine Frawley from the US EPA-New England. I am in the process of filling out the new NOI for our general permit and ran into two questions that not sure if we need to do or not and if so do not know how to do them. We have be doing the same process for many years with the old permit. They are:

2c) FOR MASSACHUSETTS FACILITIES ONLY: Engineering Calculations: Submit the completed engineering calculation of the surface water temperature rise as shown in Attachment A of the General Permit. Check if attached:

_____

= 7 cfs

2k) Provide the reported or calculated seven day-ten year low flow (7Q10) of the receiving water 4.54 MGD ~~cfs~~ Please attach any calculation sheets used to support stream flow and dilution calculations. See General Permit Attachment B for equations and additional information.

If you could share some light on these two question, it would be greatly appreciated.

Thank you in advance

$m_p = 0.022 + 0.018 = 0.33$ MGD
$m_r = 7Q10 = 4.54$ MGD
$\Delta T_p = 60^\circ - 38^\circ = 22^\circ F$
$\Delta T_r = \frac{m_p}{m_r} \times \Delta T_p$
$\Delta T_r = \frac{0.033 \text{ MGD}}{4.54 \text{ MGD}} \times 22^\circ F = 0.16^\circ F$

Ozzie Medeiros
Operations Manager

HARODITE INDUSTRIES, INC.

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SURFACE WATER TEMPERATURE RISE

Question: 2c