NPDES # MAG250333

chemically machined precision and decorative metal parts...

September 22, 2008

US EPA Region 1 **NCCW GP Processing** Municipal Assistance Unit (CMU) 1 Congress Street Suite 1100 Boston, MA 02114-2023

To Whom It May Concern:

Please find enclosed Photofabrication Engineering Inc.'s Transmittal Form for Permit Application submitted January 24, 2005, Transmittal # W059387; completed Appendix 5 Notice of Intent (NOI); Best Technology Available (BTA) General Requirements; Facility-Specific BTA Requirements; locus map with location of both the facility and the source of non-contact cooling water marked; aerial view of facility and source of noncontact cooling water; email, Endangered Species List and map from Emily Holt of the Natural Heritage & Endangered Species Program certifying no Endangered Species are in the immediate vicinity of PEI's discharge of non-contact cooling water and list of locations in town of Milford, MA that are on the National Register of Historical sites verifying PEI's discharge of non-contact cooling water is not in vicinity of any listed historical sites. If you have any questions I can be reach during normal business hours Monday through Friday at 508 478-2025.

Sincerely

Michael Mastrullo EHS Manager, PEI

C: MADEP, Division of Watershed Management









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: Photofabrication Engineering, Inc.		Type of Business: Chemical Etching						
Facility Location Address: 500 Fortune Blvd Milford, MA 01727 longitude: -71 29' 23" latitude: 42 09' 15"	Facility SIC codes: 3479	Facility Mailing Address (if not location address)						
b) Name of facility owner: Elenel Indusries		Email address of owner:						
Owner's Tel #:     508 478-2025       Owner's Fax #     508 478-3582		Owner is (check one): 1. Federal 2. State 3.Tribal 4. Private 4. Other (Describe)						
Address of owner (if different from facility								
Legal name of Operator, if not owner: Willi	am Lehrer							
Operator Contact Name: William Lehrer		P						
Operator Tel Number: 508 478-2025	Fax	Number: 508 478-3582						
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?   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:   MAG250333								
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: January 24, 05								

	harge information. Please provide information about the discharge, (attaching additional sheets as needed)									
a)	Name of receiving water into which discharge will occur: Quarry									
Sta	ate Water Quality Classification: B Freshwater: X Marine Water:									
b)	Describe the discharge activities for which the owner/applicant is seeking coverage: Non Contact Cooling Water Discharge									
c)	temperature rise as shown in Attachment A of the General Permit. Check if attached:									
d)	Number of outfalls 1 CAN NOT CALCULATE BECAUSE A 7010 WAS NOT									
	PROVIDED FOR QUARRY - PER DAMIEN HOULIHAN or each outfall:									
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 108,000 GPD Average Flow 108,000 GPD									
f)	What is the maximum daily and average monthly temperature of the discharge (in degrees F)? Max Temp. 77 Average Temp. 60									
g)	What is the maximum and minimum monthly pH of the discharge (in s.u.)? Max pH 6.8 Min pH 6.6									
h)	To 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) If (P), number of days or months per year of the discharge and the specific months of discharge ind September to mid June;  If (I), number of days/year there is a discharge index of the discharge;  Latitude and longitude of each discharge within 100 feet: outfall 1: long lat; outfall 2: long. NAlatNA;									
ou	tfall .3: long. NA lat. NA (See http://www.epa.gov/tri/report/siting tool)									
Ple ad MASS	Provide the reported or calculated seven day-ten year low flow (7Q10) of the receiving water Quarry cfs ease attach any calculation sheets used to support stream flow and dilution calculations. See General Permit Attachment B for equations and dilutional information. CAN NOT CALCULATE BECAUSE B 7Q10 WAS NOT PROVIDED FOR QUARRY ACHUSETTS FACILITIES: See Part 3.4 and Appendix 1 of the General Permit for more information on ACEC.  Of Critical Environmental Concern (ACEC): Does the discharge occur in an ACEC? Yes No Yes DAMIEN HOW HA									
	of Critical Environmental Content (Nelle). Bots the discharge octavity									
II ves,	provide the name of the ACEC:									

3. NCCW Source water information. Flease provide information	about the NCCW source water, using separate sheets as necessary.					
a) Indicate source of the NCCW (i.e., municipal water supply,	b) If source water is surface water:					
private well, surface water withdrawal, groundwater):	i) Is it a freshwater river or stream Yes No_✓					
Source: Surface water withdrawal	ii) Is it a lake? reservoir? QUARRY					
Name of Source Water: Quarry	iii) Is it tidal river? estuary? ocean?					
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:	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.					
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 <a href="http://www.epa.gov/region1/npdes/nccwgp.html">http://www.epa.gov/region1/npdes/nccwgp.html</a> . 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						
SEE ATTACHMENT BTA						

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 CWIS108MGD  Maximum monthly average intake of the CWIS during the previous five years5C33_MGD						
For facilities where the CWIS is located on a freshwater river or stream, provide the following information:  The source water's annual mean flow Quarry 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 Quarry Attach calculations if equal to or less than 5% of annual mean flow.  The source water's 7Q10 Quarry 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 LC50 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? YesNo/ b) Has any consultation with the federal services been completed? YesNo/						
d) 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 $\cancel{NR}$ or written concurrence $\cancel{NR}$ 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? A						
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? 1						

- 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: PHOTOFABRICATION ENGINEERING, INC Operator signature:

Title:

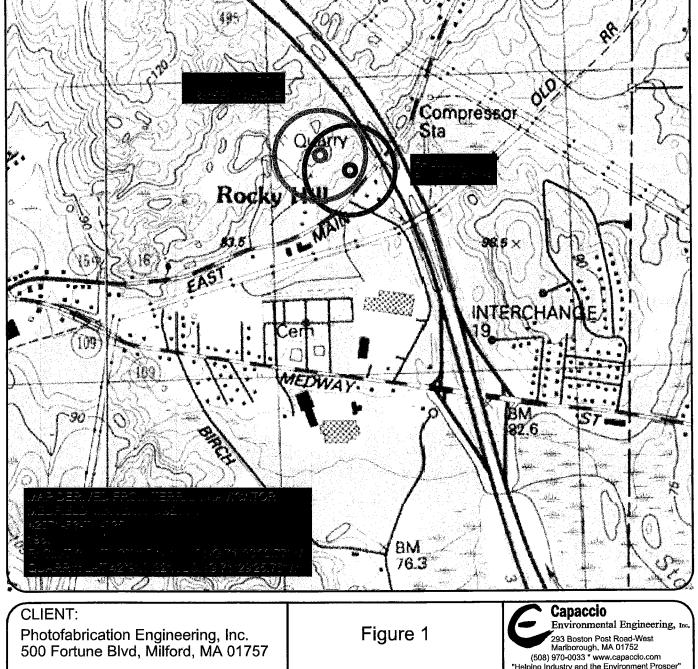
Date: 01

Federal regulations require this application to be signed as follows:

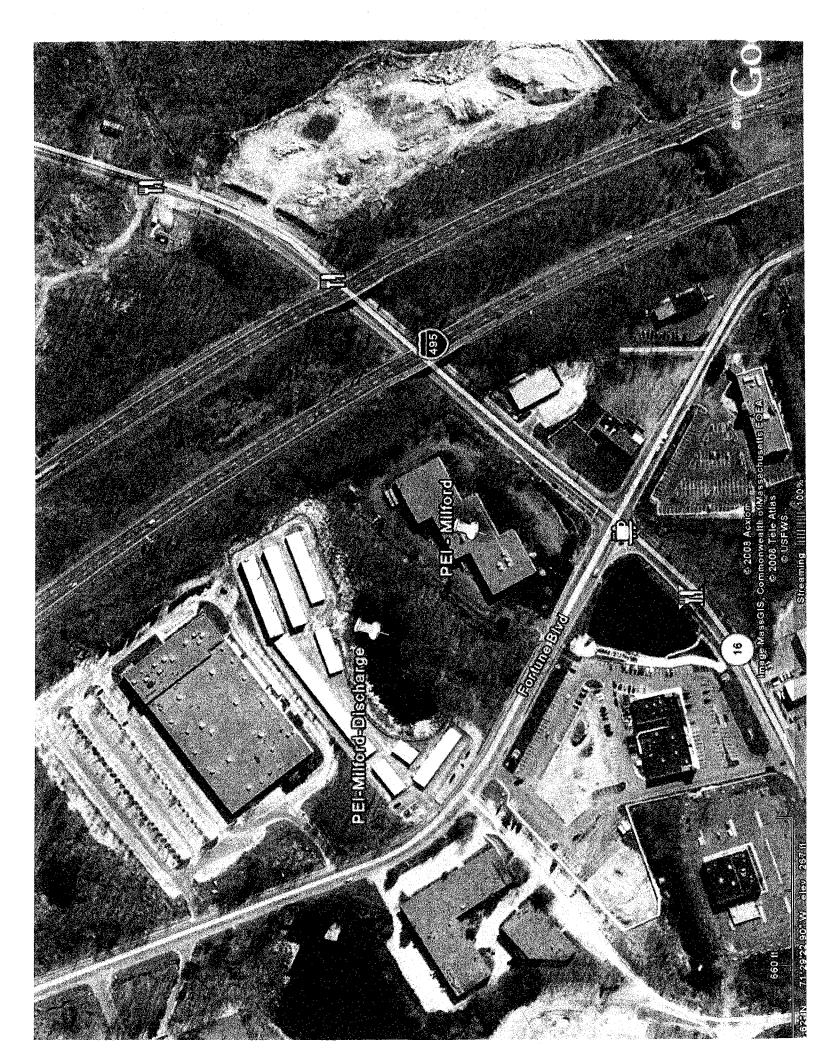
1. For a corporation, by a principal executive officer of at least the level of vice president;

2. For a partnership or sole proprietorship, by a general partner or the proprietor, respectively, or,

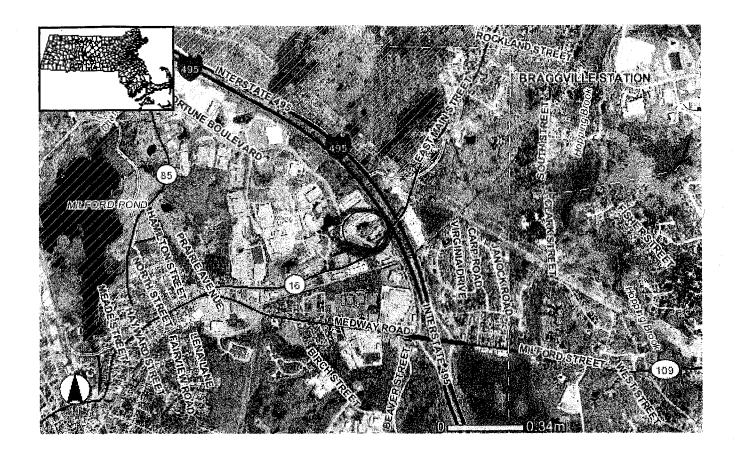
3. For a municipality, State, Federal or other public facility, by either a principal executive officer or ranking elected official.



CLIENT: Photofabrication Engineering, Inc. 500 Fortune Blvd, Milford, MA 01757		Figure 1		(50 "Helping	Capaccio Environmental Engineering, Inc., 293 Boston Post Road-West Marlborough, MA 01752 (508) 970-0033 * www.capacolo.com "Helping Industry and the Environment Prosper"		
ſ	TITLE:	NORTH	SCALE:	1" = 1000'-0"	DR E	BY: TJL	SIZE:
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## Mike Mastrullo

From:

Holt, Emily (FWE) [Emily.Holt@state.ma.us]

Sent:

Friday, September 05, 2008 3:14 PM

To: Cc: Mike Mastrullo Lucy Servidio

Subject:

RE: Endangered Species Certification

Mike,

That site is not mapped as Priority Habitat or Estimated Habitat for rare species and we have no records of state-listed (or federally-listed) species in the immediate vicinity of the site. For future reference, you can view the Natural Heritage Priority and Estimated Habitat maps online at <a href="https://www.nhesp.org">www.nhesp.org</a> or at MassGIS to determine if the site is mapped.

Thank you,

**Emily** 

**Emily Holt** 

Endangered Species Review Assistant

Natural Heritage & Endangered Species Program

MA Division of Fisheries & Wildlife

One Rabbit Hill Road

Westborough, MA 01581

PH. (508) 389-6361

FAX. (508) 389-7891

www.nhesp.org

----Original Message-----

From: Mike Mastrullo [mailto:mmastrullo@photofabrication.com]

Sent: Friday, September 05, 2008 3:02 PM

To: 'Holt, Emily (FWE)'

Subject: RE: Endangered Species Certification

**Emily** 

Thank you for your help.

From: Holt, Emily (FWE) [mailto:Emily.Holt@state.ma.us]

Sent: Friday, September 05, 2008 2:38 PM

To: Mike Mastrullo

Subject: RE: Endangered Species Certification

Could you please submit a locus map for your site? I can verify for you whether or not the site is mapped as Priority or Estimated Habitat for state-listed species.

**-**

Thank you,

**Emily Holt** 

**Endangered Species Review Assistant** 

Natural Heritage & Endangered Species Program

MA Division of Fisheries & Wildlife

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Westborough, MA 01581

PH. (508) 389-6361

FAX. (508) 389-7891

www.nhesp.org

----Original Message----

From: Mike Mastrullo [mailto:mmastrullo@photofabrication.com]

Sent: Friday, September 05, 2008 8:34 AM

**To:** Holt, Emily (FWE)

Subject: RE: Endangered Species Certification

## **Dear Emily**

Our consultant, Lucy Servidio from Capaccio Engineering suggested I contact you for help. Photofabrication Engineering, Inc is located at 500 Fortune Blvd, Milford, MA. We are renewing our NPDES Non-Contacting Cooling Water General Permit. The permit requires that we verify that there are no endangered species that will be impacted by the discharge of our non-contact cooling water into the quarry located adjacent to our facility. MA DEP has verified that there are no dwarfed wedgemussels, short nosed sturgeons, bog turtles or northern redbellied cooter in Worcester County. But, we are still required to verify there are no bald eagles and small whorled pogonia that will be impacted by or discharge.

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Thank you in advance for your help, Mike

Michael Mastrullo EHS Manager Quality Engineering Photofabrication Engineering, Inc. (PEI) (508) 478-2025 x59 mmastrullo@photofabrication.com