

7. Attach a topographic map indicating the location of the facility and the outfall(s) to the receiving water. Map attached? Yes

8. Provide the number of turbines and the combined turbine discharge (installed capacity) at maximum and minimum output, in cubic feet per second (cfs). Number of turbines 2 Combined turbine discharge (installed capacity): maximum output, cfs 6400 and minimum output, cfs 900

9. Is the hydroelectric generating facility operated as a pump storage project? No

B. Discharge Information (attach additional sheets as needed).

1. Name of receiving water into which discharge will occur: Merrimack River
Freshwater: Marine Water:

2. Attach a line drawing or flow schematic showing water flow through the facility including sources of intake water, operations contributing flow, treatment units, outfalls, and receiving waters(s). Line drawing or flow schematic attached? Yes See Attachment 1

3. List each outfall under the following categories and number sequentially: equipment-related cooling water; equipment and floor drain water; maintenance-related water; facility maintenance-related water during flood/high water events, and equipment-related backwash strainer water (see Parts I.A.1, 2, 3, and 4; or Parts I.B.1, 2, 3, and 4). Attach additional sheets to identify outfalls as needed.

Equipment-related cooling water

Equipment and floor drain water

See Attachment 2

Maintenance-related water

Facility maintenance-related water during flood/high water events

Equipment-related backwash strainer water

4. List each outfall discharging any combination of the following to identify the combined discharges: equipment-related cooling water, equipment and floor drain water, maintenance-related water, equipment-related backwash strainer water, and facility maintenance-related water during flood/high water events (see Parts I.A.5 and B.5) and continue the sequential numbering. Attach additional sheets to identify outfalls as needed.

5. Provide for each outfall the following:

- a. Latitude and longitude to the nearest second (see EPA's siting tool at: http://www.epa.gov/tri/report/siting_tool/) and the name(s) of the receiving water(s) into which the discharge will occur.
- b. The operations contributing flow and the treatment received by the discharge. Indicate the average flow from each operation.
- c. Indicate if the discharge can be sampled at least once per year or can be sampled using the representative outfall sampling provisions (see Parts I.A.6 or B.6 and III.E).
- d. Note if the outfall discharges intermittently or seasonally.

C. Chemical Additives

Are any non-toxic neutralization chemicals used in the discharge(s)? Yes _____ No If so, include the chemical name and manufacturer; maximum and average daily quantity used on a monthly basis as well as the maximum and average daily expected concentrations (mg/l) in the discharge, and the vendor's reported aquatic toxicity (NOAEL and/or LC₅₀ in percent for typically acceptable aquatic organism).

D. Endangered Species Act Eligibility Information

A facility, with a previous ESA Section 7 consultation with the National Marine Fisheries Service (NMFS), seeking coverage under the Massachusetts general permit and discharging to the Connecticut River or Merrimack River should provide one of the following, if available.

1. A formal certification indicating consultation with the National Marine Fisheries Service (NMFS) resulted in either a no jeopardy opinion or a written concurrence on a finding that the discharges are not likely to adversely affect the shortnose sturgeon or critical habitat. Information should also be provided indicating the hydroelectric facility's previous ESA Section 7 consultation with NMFS covered the discharges to be authorized under this general permit and demonstrating no significant changes in the discharges have occurred since the previous consultation.
2. Another operator's certificate of the ESA eligibility for those discharges to be authorized under this general permit.

E. Supplemental Information

Please provide any supplemental information, including antidegradation review information applicable to new or increased discharges. Attach any certification(s) required by the general permit.

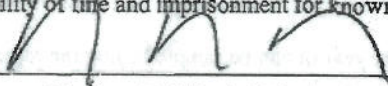
F. Signature Requirements

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 no chemical additives are used in the discharges to be authorized under this general permit except for those used for pH adjustment and (2) 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.

Signature



Date

5/22/2012

Printed Name and Title

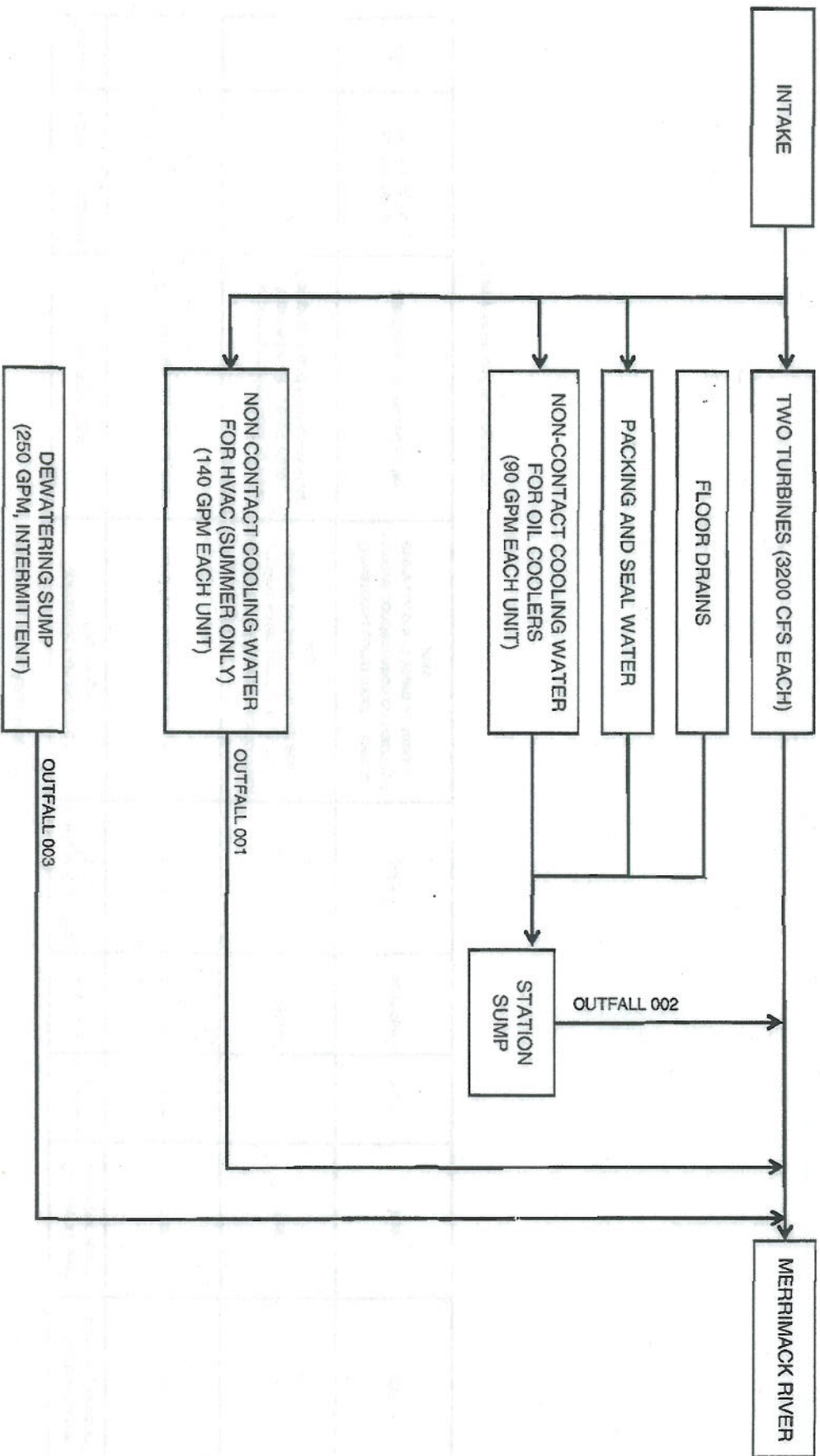
Stephen D. Pike, VP Operations

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 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.

Eldred L. Field Powerhouse
Lowell, MA

Notice of Intent Attachment 1



Eldred L. Field Powerhouse
Lowell, MA

Notice of Intent Attachment 2

Outfall #	Latitude / Longitude	Discharge Type	Operations Contributing to Discharge	Average Daily Flow (GPD)	Flow Type	Treatment	Sample at least once per year?	Representative sampling location?
001	42° 39.15' N 71° 19.36' W	Equipment related cooling water	HVAC Non contact cooling water	0-604,800	Seasonal (Summer Only)	None	Yes	001
002	42° 39.16' N 71° 19.36' W	Equipment related cooling water, Maintenance related water, Equipment and floor drain water	Lubricating Oil Coolers Non contact cooling water Sump pump, floor drains, packing water and seal water.	0-388,800	Continuous*	None	Yes	002
003	42° 39.16' N 71° 19.36' W	Maintenance related water	Dewatering sump mostly used to remove condensation on walls and every couple of years to dewater units.	0-250	Intermittent	None	Yes	003

* Only when unit is in operation



PROJECT TITLE: NPDES Permitting		CLIENT: Eldred L. Field Hydroelectric Project Booth Hydropower, Inc.	
DRAWING TITLE: Site Location Map		JOB LOCATION: 145 Pawtucket Street Lowell, MA 01854	
 Capacelo Environmental Engineering, Inc. 293 Boston Post Road-West Northborough, MA 01752 (509) 970-0033 • www.capacelo.com "Helping Industry and the Environment Prosper"			
JOB NO.: 08-034.013		SHEET: Figure 1	
SCALE: 1" = 2083'-0"			
REV.: A			
DRW.: CPC			
CHK.: CAW			
ENG.:			
DATE: 05-10-12		NORTH 	
		SIZE: A	