

D29237

June 28, 2010 File No. 04.0024931.03

Mr. Brian Pitt, Acting Chief NPDES Municipal Permits Branch Office of Ecosystem Protection EPA-New England, Region 1 5 Post Office Square, Suite 100 Boston, Massachusetts 02109-3912 PSNH Energy Park 780 North Commercial Street, Manchester, NH 03101

Public Service Company of New Hampshire P.O. Box 330 Manchester, NH 03105-0330 (603) 634-2236 Fax (603) 634-2213 macdojm@psnh.com

The Northeast Utilities System

John M. MacDonald Vice President - Generation

Re:

Notice of Intent

General Permit for Hydroelectric Generating Facilities - NHG360000

Amoskeag Hydro Station

Public Service Company of New Hampshire

Dear Mr. Pitt,

In accordance with the extension letter issued by the Environmental Protection Agency (EPA) dated March 5, 2010, Public Service Company of New Hampshire (PSNH) is submitting the Notice of Intent (NOI) to request coverage for the Amoskeag Hydro Station in Manchester under the General Permit for Hydroelectric Generating Facilities (Permit) in the State of New Hampshire (NHG360000):

PSNH requests that the individual permit application submitted for this facility in 1983 be withdrawn.

As discussed during our February 9, 2010 meeting with George Papadopoulos and Robin Johnson of your office, PSNH is submitting the required NOI documentation prior to July 8, 2010.

If you have any questions, please contact Sheila Burke, PSNH Generation at 603-634-2512.

Very truly yours,

PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE

John M. MacDonald

Vice President - Generation

cc: George Papadopoulos/EPA

Robin Johnson/EPA
Daniel Dudley/NHDES

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY NEW ENGLAND - REGION I 5 POST OFFICE SQUARE, SUITE 100 BOSTON, MASSACHUSETTS 02109-3912

Request for General Permit Authorization to Discharge Wastewater (Notice of Intent (NOI) to be covered by the General Permit)

Hydroelectric Generating Facilities (HYDROGP) NPDES General Permits No. MAG360000 and NHG360000

A. Facility Information	
1. Indicate applicable General Permit for discharge:	MAG360000
	NHG360000 X
Facility Name, Location, and Data: Name Amoskeag Hydroelectric Station	
Street/POBox 4 Fletcher Street	City Manchester
State New Hampshire	Zip Code 03101
Latitude N43° 00' 9.3"	Longitude W71° 28' 21.1"
Type of Business Electric Power Generation	
SIC Code(s) 4911	
3. Facility Mailing Address (if different from Locat Name Public Service Company of NH Street/PO Box P.O. Box 330	ion Address):
State New Hampshire	Zip Code 03105-0330
4. Facility Owner: Name Public Service Company of NH Street/PO Box P.O. Box 330 State New Hampshire Contact Person John M. MacDonald Owner is (check one): 1. Federal 2. State Other (Describe)	e-mail (optional)macdojm@nu.com City Manchester Zip Code 03105-0330 Telephone Number 603-634-2236 3. Tribal 4. Private X
5. Facility Operator (if different from above): Legal Name Public Service Company of NH Street/PO Box P.O. Box 330 State New Hampshire Contact Person Robert Gundersen	City Manchester Zip Code 03105-0330
the NOI? Yes X No If Yes, Permit N b. Is the facility covered by an individual NPDES per If Yes, Permit Number NH0001392 c. Is there a pending NPDES application on file with	ermit? Yes_XNo

attached? X	facility and the outfall(s) to the receiving water. Map
8. Provide the number of turbines and the combined turbin minimum output, in cubic feet per second (cfs). Number o capacity): maximum output, cfs _5,640 arminimum output, cfs _1,128 (3 units) / 376 (one unit)	f turbines 3 Combined turbine discharge (installed
9. Is the hydroelectric generating facility operated as a pu	mp storage project? no
B. Discharge Information (attach additional sheets a	as needed).
Name of receiving water into which discharge will occ Freshwater:X Marine Water:	ur: Merrimack River
 Attach a line drawing or flow schematic showing water water, operations contributing flow, treatment units, or schematic attached? 	
	ater; facility maintenance-related water during flood/high vater (see Parts I.A.1, 2, 3, and 4; or Parts I.B.1, 2, 3, and
Equipment-related cooling water	Equipment and floor drain water
See attached table for question	is 3 and 4.
Maintenance-related water	Facility maintenance-related water during flood/high water events
Equipment-related backwash strainer water	

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.

4. List each outfall discharging any combination of the following to identify the combined discharges: equipment-

- 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. See attached table.

C. Chemical Additives

Are any non-toxic neutralization chemicals used in the discharge(s)? Yes $\underline{}$ No $\underline{}$ 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 Lely	by line and	Date 6/28/12
Printed Name and Title	John M. MacDonald, Vice President, Generation	7

Federal regulations require this application to be signed as follows:

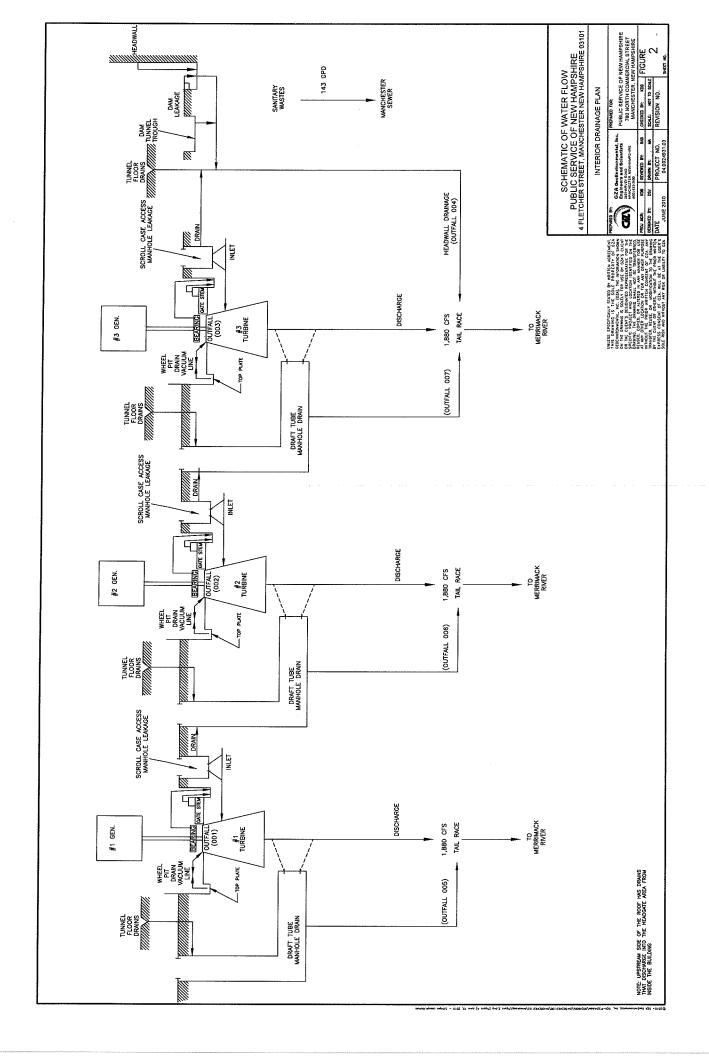
- 1. For a corporation, by a principal executive officer of at least the level of vice president;
- 2. For partnership or sole proprietorship, by a general partner or the proprietor, respectively, or,
- 3. For a municipality, State, Federal or other public facility, by either a principal executive officer or ranking elected official.

Public Service Company of New Hampshire Amoskeag Hydro Station

Equipme	Equipment and Floor Drain Water								
Outfall	Description	Location	Contributing Operations	Average Flow	Total Average Flow	Occasional or Consistent Discharge	Discharging Water	Sample Location or	Possible Annual
		N 43° 00' 8.3"	Seal bearing shaft	0-65 GPY					Simdinoc
001	Wheel Pit Drain Generator 1 W 71° 28' 21.2"	W 71° 28' 21.2"	Top plate leakage	0-65 GPY	0-260 GPY	Consistent	Merrimack River	Sample from Wheel Pit	Vec
			Gate stem leakage	0-130 GPY					2
		N 43° 00' 8.1"	Seal bearing shaft	0-65 GPY					
005	Wheel Pit Drain Generator 2 W 71° 28' 21.1"	W 71° 28' 21.1"	Top plate leakage	0-65 GPY	0-260 GPY	Consistent	Merrimack River	Benresentative Outfall 003	٧٥٥
			Gate stem leakage	0-130 GPY					ĩ
		N 43° 00' 7.5"	Seal bearing shaft	0-65 GPY					
903	Wheel Pit Drain Generator 3 W 71° 28' 21.8"	W 71° 28' 21.8"	Top plate leakage	0-65 GPY	0-260 GPY	Consistent	Merrimack River	Representative Outfall 001	200
			Gate stem leakage	0-130 GPY					5
			Headwall leakage	3 GPM				Grab sample from headwall	
		N 43° 00' 7.2"	Tunnel floor drains	3 GPD				trough dam leakage dam	
004	Headwall Drainage	W 71° 28' 21.2"	Dam tunnel trough	3 GPM	9 GPM	Consistent	Merrimack River	tunnel trough tunnel floor	y A
			Dam leakage	3 GPM				drains, and scroll case access	}
			Scroll case access manhole leakage (G #3)	0-3 GPD				manhole leakage	

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۵	Draft Tube Manhole Drain (G N 43° 00' 8.4"	N 43° 00' 8.4"	Tunnel floor drains	0-20 GPY						г
	#1)	W 71° 28' 20.8"			0-20 GPY	Intermittent	Merrimack River	Representative Outfall 006	Yes	
										T
	Draft Tube Manhole Drain (G N 43° 00' 8.3"	N 43° 00' 8.3"	Tunnel floor drains	0-20 GPY	000			Grab sample from floor drain		Т
	#2)	W 71° 28' 21.0"	W 71° 28' 21.0" Scroll case access manhole leakage (G #1)	0-50 GPY	0-70 GPY	Intermittent	Merrimack River	vacuum line and scroll case	Λας	
										1
	Draft Tube Manhole Drain N 43° 00' 7.9"	N 43° 00' 7.9"	Tunnel floor drains	0-20 GPY	70000					1
	(G#3)	W 71° 28' 20.8"	W 71° 28' 20.8" Scroll case access manhole leakage (G #2) 0-50 GPY	0-50 GPY	0-70 GPY	intermittent	Merrimack River	Representative Outfall 006	Yes	



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