

D28975

April 7, 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

Re: Notice of Intent

General Permit for Hydroelectric Generating Facilities - NHG360000

Hooksett 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 Hooksett Hydro Station in Hooksett under the General Permit for Hydroelectric Generating Facilities (Permit) in the State of New Hampshire (NHG360000):

PSNH Energy Park

Manchester, NH 03105-0330

The Northeast Utilities System

P.O. Box 330

(603) 634-2236 Fax (603) 634-2213 macdojm@psnh.com

John M. MacDonald Vice President - Generation

780 North Commercial Street, Manchester, NH 03101

Public Service Company of New Hampshire

PSNH requests that the individual permit application submitted for this facility in 1983 be withdrawn.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 has several questions pertaining to site eligibility for the five remaining PSNH hydroelectric facilities. PSNH has forwarded those eligibility questions to Mr. George Papadopoulos in a letter dated April 2, 2010. Following resolution of the potential eligibility issues, PSNH will work with our consultant to complete the required Notice of Intent documentation or Individual Permit applications 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

Facility Name, Location, and Data: Name Hooksett Hydroelectric Station	NHG360000 X
Name Hooksett Hydroelectric Station	
Street/POBox 73 Merrimack Street	City Hooksett
State New Hampshire Latitude N43° 06' 04.0"	Zip Code_03106
Latitude N43° 06' 04.0"	Langitude W71° 27' 53.8"
Type of Business Electric Power Generation	on
SIC Code(s) 4911	
Facility Mailing Address (if different from Loca	ation Address):
Name Public Service Company of NH	
Street/PO Box P.O. Box 330	CityManchester
State New Hampshire	Zip Code 03105-0330
Facility Owner:	
Name Public Service Company of NH	_ e-mail (optional) _macdojm@nu.com
Street/PO Box P.O. Box 330	City Manchester
State New Hampshire	Zip Code 03105-0330
Contact Person John M. MacDonald	Telephone Number 603-634-2236
Owner is (check one): 1. Federal 2. State	3. Tribal 4. Private X
Other (Describe)	
/	
Facility On the Circles of Control	
Facility Operator (if different from above):	
Legal Name Public Service Company of NH Street/PO BoxP.O. Box 330 State New Hampshire	e-mail (optional) gunder@nu.com
Street/PO Box F.O. Box 330	City Manchester
State New Hampsille	Zip Code
Contact Person Robert Gundersen	Telephone Number 603-634-2616
Contact Person Robert Gundersen	City Manchester Zip Code 03105-0330 Telephone Number 603-634-2616
Current permit status (please check Yes or No):	
as a prior NPDES permit (individual or consect	permit coverage) been granted for the discharge that is list
the NOI? Yes X No If Yes, Permit N	permit coverage) been granted for the discharge that is list
s the facility covered by an individual NPDES per	NUMBER 14110001422
Yes, Permit Number NH0001422	ermit: Yes ^ No
1 Co, 1 CHINI NUMBER 141 1000 1422	h EPA for this discharge? Yes X No If Yes

7. Attach a topographic map indicating the location of the fattached? X	acility and the outfall(s) to the receiving water. Map
8. Provide the number of turbines and the combined turbine minimum output, in cubic feet per second (cfs). Number of capacity): maximum output, cfs 1,750 and minimum output, cfs 550	turbines 1 Combined turbine discharge (installed
9. Is the hydroelectric generating facility operated as a pum	up storage project? No
B. Discharge Information (attach additional sheets as	needed).
Name of receiving water into which discharge will occur Freshwater: Marine Water:	· Merrimack River
 Attach a line drawing or flow schematic showing water f water, operations contributing flow, treatment units, outf schematic attached? 	
3. List each outfall under the following categories and numbe equipment and floor drain water; maintenance-related water water events, and equipment-related backwash strainer wa 4). Attach additional sheets to identify outfalls as needed.	er; facility maintenance-related water during flood/high ter (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.	
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 Lalin La	Lew Brok	Date 4/7/10
/	John M. MacDonald, Vice President, Generation	

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 Hooksett Hydro Station

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- day	Squipment and Hool Digiti Water								
Outfall	Description	Location	Contributing Operations	Average Flow	Total Average Flow	Occasional or Consistent Discharge	Discharging Water	Sample Location or Penracentative Outfall	Possible Annual
						-0		ייבאורים ביווים מחוומו	Sampling
	Wheel Pit Drain	N 43° 06' 3.8"	Gate stem leakage	10-20 GPY				-	ı
001	100	W 71° 27' 53.8"	W 71° 27' 53.8" Lower bearing leakage	10-20 GPY	20-40 GPY	Consistent	Merrimack	Werrimack Grab sample from wheel pit (gate	Yes
	(dund to aim impana)						Kiver	stem leakage only)	

Maintenance - Related Water

	Ypk	(Rep.	,		ase	Yes	
		Representative Outfall 003			Grab sample from scroll case	oracidosito et roiare ejento	
	Merrimack	River			Merrimack	River	
		Intermittent				Intermittent	
	0.40	0-10 GPIN			2 4 2 0 1 0	0-50 GPIVI	
	0-10 GPM				0-50 GPM		
	Scroll case drain				Scroll case drain		
	N 43° 06' 3.8"	W 71° 27' 53.9"			N 43° 06′ 3.7″	W 71° 27' 53.7"	
TOTAL MORE MARCH	002 Front Scroll Case Drain	ייסור זכן כמס וויסור			Back Scroll Case Drain	מכני זכן חוו כמזכ חומווו	
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