



**TransCanada**

*In business to deliver*

**US Northeast Hydro Region**  
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February 26, 2010

US Environmental Protection Agency  
Hydroelectric GP Processing  
Municipal Assistance Unit (OEP06-3)  
5 Post Office Square - Suite 100  
Boston, MA 02109-3912

**RE: Notices of Intent for Coverage under HYDROGP # MAG360000**

Dear Sir or Madame,

Enclosed please find Notices of Intent (NOIs) and attachments for five (5) TransCanada Hydro Northeast Inc. hydroelectric generating facilities located in Massachusetts. TransCanada is seeking National Pollutant Discharge Elimination System (NPDES) permit coverage under the Hydroelectric Generating Facilities General Permit (HYDROGP) #MAG360000. These facilities currently operate under expired, but administratively continued, individual permits.

If you have any questions or need additional information please contact me at (603) 445-6803 or at [davidpaul\\_murray@transcanada.com](mailto:davidpaul_murray@transcanada.com).

Sincerely,

David P. Murray  
Environmental Specialist

Enclosures: Five (5) Notices of Intent for facilities to be covered under MAG360000.

cc: Massachusetts Department of Environmental Protection - Division of Watershed Management



7. Attach a topographic map indicating the location of the facility and the outfall(s) to the receiving water. Map attached? Fig 1

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 3 Combined turbine discharge (installed capacity): maximum output, cfs 1,500 and minimum output, cfs 0

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: Deerfield River  
Freshwater: X 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? Fig 2

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

*001-Units #1-3 bearings*

Equipment and floor drain water

*none*

Maintenance-related water

*none*

Facility maintenance-related water during flood/high water events

*none*

Equipment-related backwash strainer water

*none*

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: *See Attachment 1*
- Latitude and longitude to the nearest second (see EPA's siting tool at: [http://www.epa.gov/tri/report/siting\\_tool/](http://www.epa.gov/tri/report/siting_tool/)) and the name(s) of the receiving water(s) into which the discharge will occur.
  - The operations contributing flow and the treatment received by the discharge. Indicate the average flow from each operation.
  - 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).
  - Note if the outfall discharges intermittently or seasonally.

### C. Chemical Additives

Are any non-toxic neutralization chemicals used in the discharge(s)? Yes \_\_\_\_\_ No X \_\_\_\_\_ 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 LC<sub>50</sub> in percent for typically acceptable aquatic organism).

### D. Endangered Species Act Eligibility Information *Not discharging to Connecticut or Merrimack River.*

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.

- 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.
- 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 Feb 26, 2010

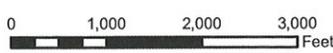
Printed Name and Title William C. Taylor - Senior Vice President Eastern US Power

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.



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Wannalancit Mills  
650 Suffolk Street  
Lowell, MA 01854  
978-970-5600

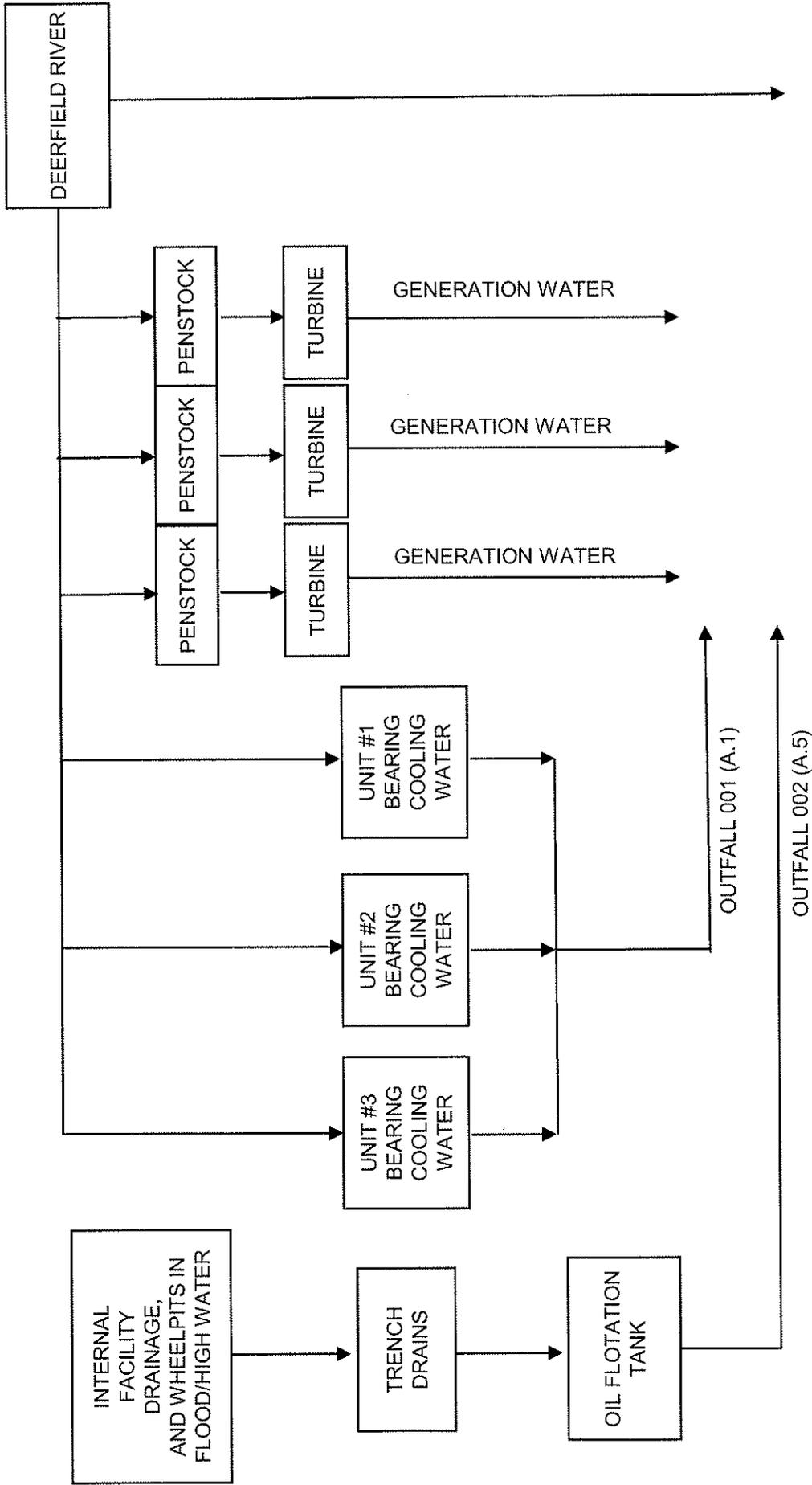
**SITE LOCATION MAP**

**TRANSCANADA HYDRO NORTHEAST, INC.  
NO. 2 STATION  
CONWAY, MA**

FIGURE 1

FEBRUARY 2010

Base map: USGS Topographic Quadrangles: Greenfield



TransCanada Hydro Northeast Inc.  
 DEERFIELD NO. 2 STATION - CONWAY, MA  
 MA0034843

FLOW DIAGRAM  
**Figure 2**

DATE: February 25, 2010

Attachment 1

DEERFIELD NO. 2 STATION – MA0034843

Outfall #	Latitude / Longitude	Discharge Type	Operations Contributing to Discharge	Average Daily Flow (GPD)	Flow Type	Treatment	Sample at least once per year?	Representative?
001	42° 34'22.55" North, 72°42'25.94" West	A.1 – Equipment related cooling water	Units #1-3 Bearing cooling water.	26,000	continuous	None	Yes	No
002	42° 34'22.55" North, 72°42'25.94" West	A.5 – Combined Discharge	Combined discharge- Oil flotation tank from trench drains (internal facility drainage and wheelpit water in flood/high water).	2,400	Intermittent on a daily basis	Oil Flotation	Yes	No