TransCanada Keerrel

US Northeast II

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 US Northeast Hydro Region 2 Killeen Street N. Walpole, NH 03609

tel 603.445.6803 fax 603.445.6809 www.transcanada.com

RE: Notices of Intent for Coverage under HYDROGP #NHG360000

Dear Sir or Madame,

Enclosed please find Notices of Intent (NOIs) and attachments for three (3) TransCanada Hydro Northeast Inc. hydroelectric generating facilities located in New Hampshire. TransCanada is seeking National Pollutant Discharge Elimination System (NPDES) permit coverage under the Hydroelectric Generating Facilities General Permit (HYDROGP) #NHG360000. These facilities do not currently operate under individual permit; however, administratively complete applications for individual coverage were submitted to EPA in 1993. Those individual permit applications were updated and re-submitted several times since their original submittal.

If you have any questions or need additional information please contact me at (603) 445-6803 or at davidpaul_murray@transcanada.com.

Sincerely.

David P. Murray

Environmental Specialist

Daniel P Murray

Enclosures: Three (3) Notices of Intent for facilities to be covered under NHG360000.

cc: New Hampshire Department of Environmental Services Water Division, Wastewater Engineering Bureau

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	e: MAG360000
	NHG360000 X
Facility Name, Location, and Data: Name TransCanada - Moore Station	
Street/POBox 2700 St. Johnsbury Road	City Littleton
State New Hampshire	Zip Code 03561
Latitude 44°20' 10.58 North	Longitude 71°52'30.87" West
Type of Business Hydroelectric power gener	ation
SIC Code(s) 4911	
 Facility Mailing Address (if different from Loca Name TransCanada Hydro Northeast Inc 	ation Address):
Street/PO Box 2 Killeen Street State New Hampshire	City N. Walpole
State New Hampshire	Zin Code 03609
4. Facility Owner:	
Name TransCanada Hydro Northeast Inc	e-mail (optional) davidpaul_murray@transca
Street/PO Box c/o 2 Killeen Street	City N. Walpole
State New Hampshire	Zin Code 03609
Contact Person David P. Murray	Zip Code_03609 Telephone Number (603) 445-6803
Owner is (check one): 1. Federal 2. State	3. Tribal 4. Private X
Other (Describe)	
Other (Describe)	
Facility Operator (if different from above):	
Legal Name	e-mail (optional)
Street/PO Box	City
State	Zip Code
Contact Person	Telephone Number_
6. Current permit status (please check Yes or No):	
a. Has a prior NPDES permit (individual or general	permit coverage) been granted for the discharge that is listed of
a. Has a prior NPDES permit (individual or general the NOI? Yes No X If Yes, Permit	permit coverage) been granted for the discharge that is listed of Number:
the NOI? Yes No_X If Yes, Permit b. Is the facility covered by an individual NPDES p	permit coverage) been granted for the discharge that is listed of Number:
a. Has a prior NPDES permit (individual or general the NOI? Yes No X If Yes, Permit	permit coverage) been granted for the discharge that is listed of Number: permit? Yes No_X

7. Attach a topographic map indicating the location of the facil attached? Fig 1	ity and the outfall(s) to the receiving water. Map
8. Provide the number of turbines and the combined turbine disminimum output, in cubic feet per second (cfs). Number of turb capacity): maximum output, cfs 18,000 and minimum output, cfs 320	
9. Is the hydroelectric generating facility operated as a pump s	torage project? <u>No</u>
B. Discharge Information (attach additional sheets as ne	eded).
Name of receiving water into which discharge will occur: _ Freshwater: X Marine Water:	Connecticut River
 Attach a line drawing or flow schematic showing water flow water, operations contributing flow, treatment units, outfalls schematic attached? Fig 2 	
 List each outfall under the following categories and number sequipment and floor drain water; maintenance-related water; water events, and equipment-related backwash strainer water Attach additional sheets to identify outfalls as needed. 	facility maintenance-related water during flood/high
Equipment-related cooling water 001 - Unit #1 thrust and lower guide bearings 002 - Unit #2 thrust and lower guide bearings 003 - Unit #3 thrust and lower guide bearings 004 - Unit #4 thrust and lower guide bearings 005 - Station air compressor 006 - Bubbler air compressor	Equipment and floor drain water 007 - Station sump
Maintenance-related water none	Facility maintenance-related water during flood/high water events 008 - Penstock inspection shafts-bypass pipe
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.

TransCanada feetiles to deliver

US Northeast Hydro Region 2 Killeen Street N. Walpole. NH 03609

tel 603.445.6803 fax 603.445.6809 www.transcanada.com

February 26, 2010

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If you have any questions or need additional information please contact me at (603) 445-6803 or at davidpaul_murray@transcanada.com.

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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 In	formation	
1. Indicate applicable General Permit for discharge:		:: MAG360000
		NHG360000 X
Name Trans	, Location, and Data: Canada - Moore Station x 2700 St. Johnsbury Road	City Littleton
State New Hampshire		Zin Code 03561
Latitude 44 Type of Busi SIC Code(s)	ness Hydroelectric power genera 4911	Longitude 71°52'30.87" West ation
Name Trans	ng Address (if different from Loca Canada Hydro Northeast Inc	
Street/PO Bo	x 2 Killeen Street	City N. Walpole
State New H	lampshire	City N. Walpole Zip Code 03609
Street/PO Bo State New F Contact Perso Owner is (che	Canada Hydro Northeast Inc x c/o 2 Killeen Street lampshire on David P. Murray	e-mail (optional) davidpaul_murray@transcage City N. Walpole Zip Code 03609 Telephone Number (603) 445-6803 3. Tribal 4. Private X
Legal Name	tor (if different from above):	e-mail (optional)
State		CityZip Code
Contact Perso	on	Telephone Number
	t status (please check Yes or No):	
the NOI? V	es No_X If Yes, Permit	permit coverage) been granted for the discharge that is listed o
b. Is the facility of	covered by an individual NPDES p	
If Yes, Permit 1		V
 c. Is there a pend of submittal: 		th EPA for this discharge? Yes X No If Yes, dat nit number if available: NH0022870

7. Attach a topographic map indicating the location of the facili attached? Fig 1	ity and the outfall(s) to the receiving water. Map
8. Provide the number of turbines and the combined turbine dis minimum output, in cubic feet per second (cfs). Number of turb capacity): maximum output, cfs 18,000 and minimum output, cfs 320	
9. Is the hydroelectric generating facility operated as a pump st	torage project? <u>No</u>
B. Discharge Information (attach additional sheets as need	eded).
Name of receiving water into which discharge will occur: _ Freshwater: X Marine Water:	Connecticut River
2. Attach a line drawing or flow schematic showing water flow water, operations contributing flow, treatment units, outfalls schematic attached? Fig 2	
 List each outfall under the following categories and number s equipment and floor drain water; maintenance-related water; water events, and equipment-related backwash strainer water Attach additional sheets to identify outfalls as needed. 	facility maintenance-related water during flood/high
Equipment-related cooling water 001 - Unit #1 thrust and lower guide bearings 002 - Unit #2 thrust and lower guide bearings 003 - Unit #3 thrust and lower guide bearings 004 - Unit #4 thrust and lower guide bearings 005 - Station air compressor 006 - Bubbler air compressor	Equipment and floor drain water 007 - Station sump
Maintenance-related water none	Facility maintenance-related water during flood/high water events 008 - Penstock inspection shafts-bypass pipe
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
- 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.
- 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:

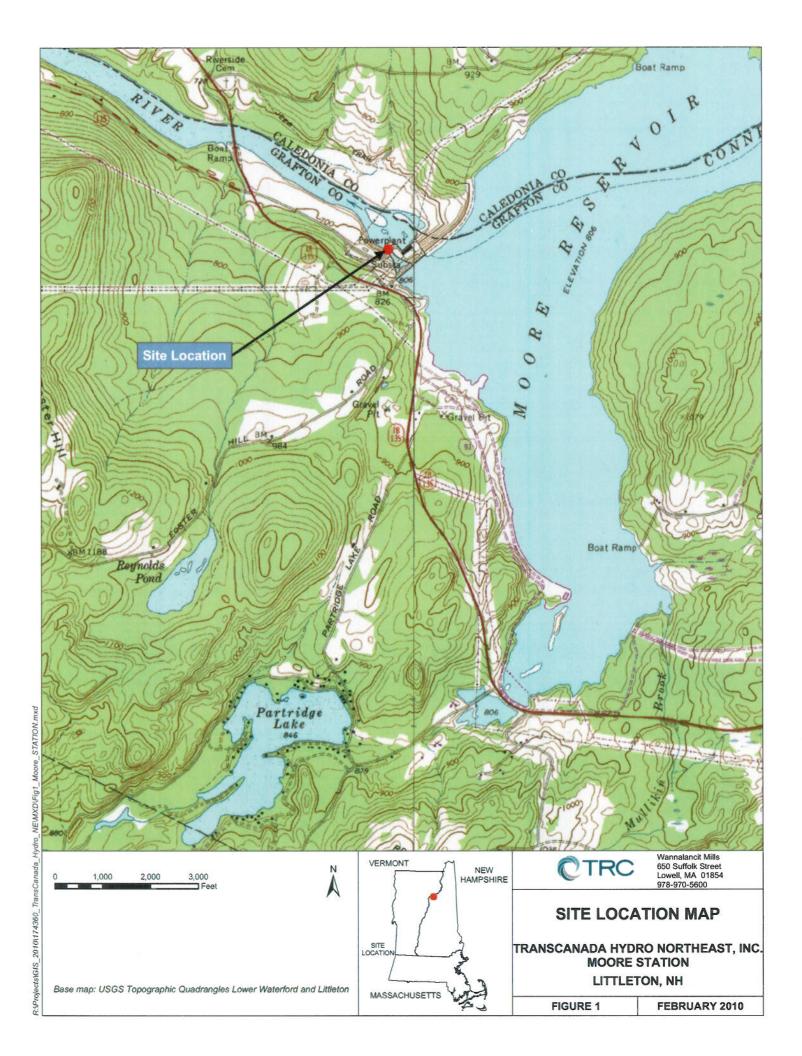
I certify under penalty of law that no chemical additives are used in the discharges to be authorized under this general permit except for those used for pH adjustment and (2) this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted.

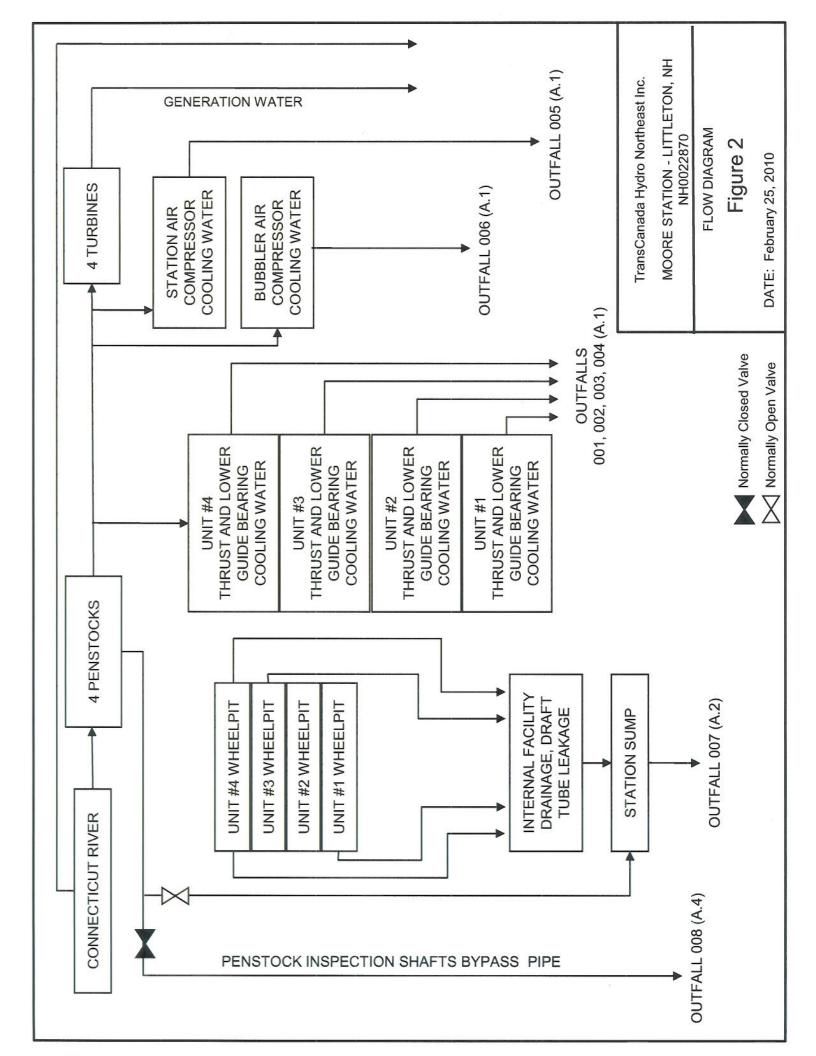
Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, I certify that the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I certify that I am aware that there are significant 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.





TRANSCANADA HYDRO NORTHEAST INC. - MOORE STATION - NH0022870 General Permit # NHG360000 Notice of Intent Attachment 1

Representative sampling location?	Yes – Representative of 001, 002, 003, 004	Yes – Outfall 001 is the representative sampling location	Yes – Outfall 001 is the representative sampling location	Yes – Outfall 001 is the representative sampling location	No- Representative only of 005	No- Representative only of 006
Sample at least once per year?	Yes	No*	*oN	*oN	Yes	Yes
Treatment	None	None	None	None None		None
Flow Type	On/off with unit generation – slightly before and after unit	On/off with unit generation – slightly before and after unit	On/off with unit generation – slightly before and after unit	On/off with unit generation – slightly before and after unit	Continuous	Seasonal - Continuous in winter
Average Daily Flow (GPD)	Total = 208,800 Thrust = 57,600 Lower Guide = 151,200	Total = 208,800 Thrust = 57,600 Lower Guide = 151,200	Total = 208,800 Thrust = 57,600 Lower Guide = 151,200	Total = 208,800 Thrust = 57,600 Lower Guide = 151,200	21,600	43,200
Operations Contributing to Discharge	Unit #1 Thrust and Lower Guide Bearing cooling water	Unit #2 Thrust and Lower Guide Bearing cooling water	Unit #3 Thrust and Lower Guide Bearing cooling water	Unit #4 Thrust and Lower Guide Bearing cooling water	Station Air Compressor cooling water	Bubbler Air Compressor cooling water
Discharge Type	A.1 –Equipment related cooling water	A.1 –Equipment related cooling water	A.1 –Equipment related cooling water A.1 –Equipment related cooling water A.1 –Equipment related cooling water		A.1 – Equipment related cooling water	A.1 – Equipment related cooling water
Latitude / Longitude	44°20' 10.58 North, 71°52'30.87" West	44°20' 10.58 North, 71°52'30.87" West	71°52'30.87" West 44°20' 10.58 North, 71°52'30.87" West 44°20' 10.58 North, 71°52'30.87" West		44°20′ 10.58 North, 71°52′30.87″ West	44°20′ 10.58 North, 71°52′30.87″ West
Outfall #	001	002	003	004	900	900

* Outfall can be sampled at least once per year, but the representative outfall location is Outfall 001 which will be sampled at least once per year.

TRANSCANADA HYDRO NORTHEAST INC. - MOORE STATION - NH0022870

General Permit # NHG360000 Notice of Intent Attachment 1

	Representative?	No- Representative only of 007	No- Representative only of 008	
	Sample at least once per year?	Yes	Yes	
	Treatment	Oil Flotation	None	
82	Flow Type	Intermittent on a daily basis	Infrequent, flood only	
	Average Daily Flow (GPD)	Total up to 360,000 Contributing discharges unknown /	n/a – flood conditions only.	
	Operations Contributing to Discharge	Station Sump Internal facility drainage (wheelpit drainage, penstock inspection shafts drainage, draft tube leakage)	Penstock inspection shafts bypass pipe – flood/high water only.	
	Discharge Type	A.2 –Equipment and floor drain water	A.4 – Facility maintenance related water during flood/high water events	
	Latitude / Longitude	44°20' 10.58 North, 71°52'30.87" West	44°20' 10.58 North, 71°52'30.87" West	
	Outfall #	200	008	