



TransCanada

In business to deliver

US Northeast Hydro Region
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NHG 360005
3/5/10
received

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 #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,

A handwritten signature in cursive script that reads "David P. Murray".

David P. Murray
Environmental Specialist

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

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 4 Combined turbine discharge (installed capacity): maximum output, cfs 6,180 and minimum output, cfs 818

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: Connecticut 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? 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 #1-4 thrust bearings, backup only

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

002-Automatic backwash strainer

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.

003-Oil flotation tank system - station sump, trench drains, transformer bay stormwater, station compressor cooling water, units #1-4 thrust bearings

004-Transformer cooling water, oil flotation tank system bypass, flood/high water sump discharge

5. Provide for each outfall the following: *See Attachment I*

- 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.

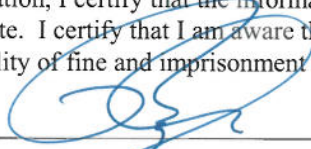
F. Signature Requirements

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 _____

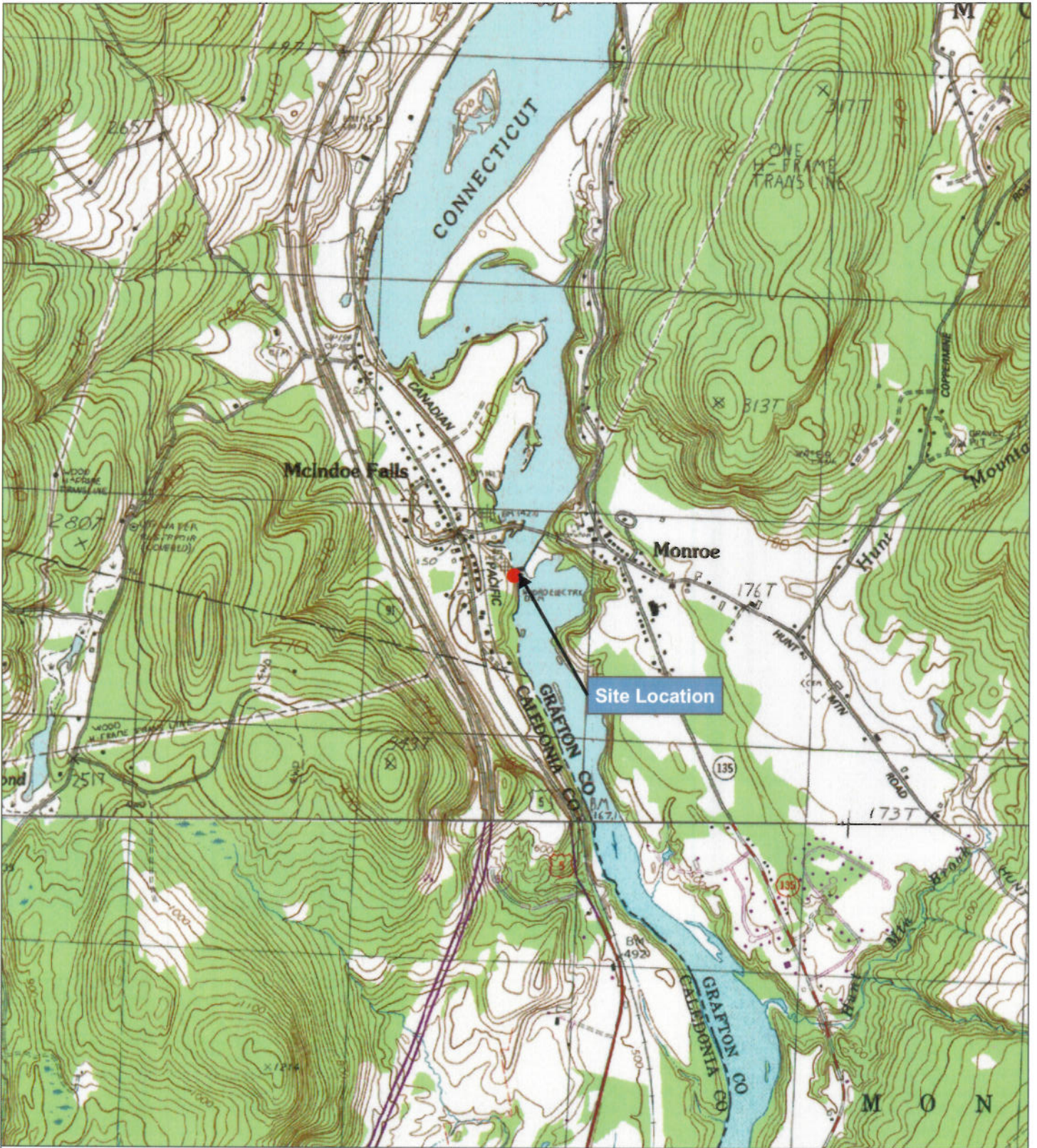


Date Feb 26, 2010

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.



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

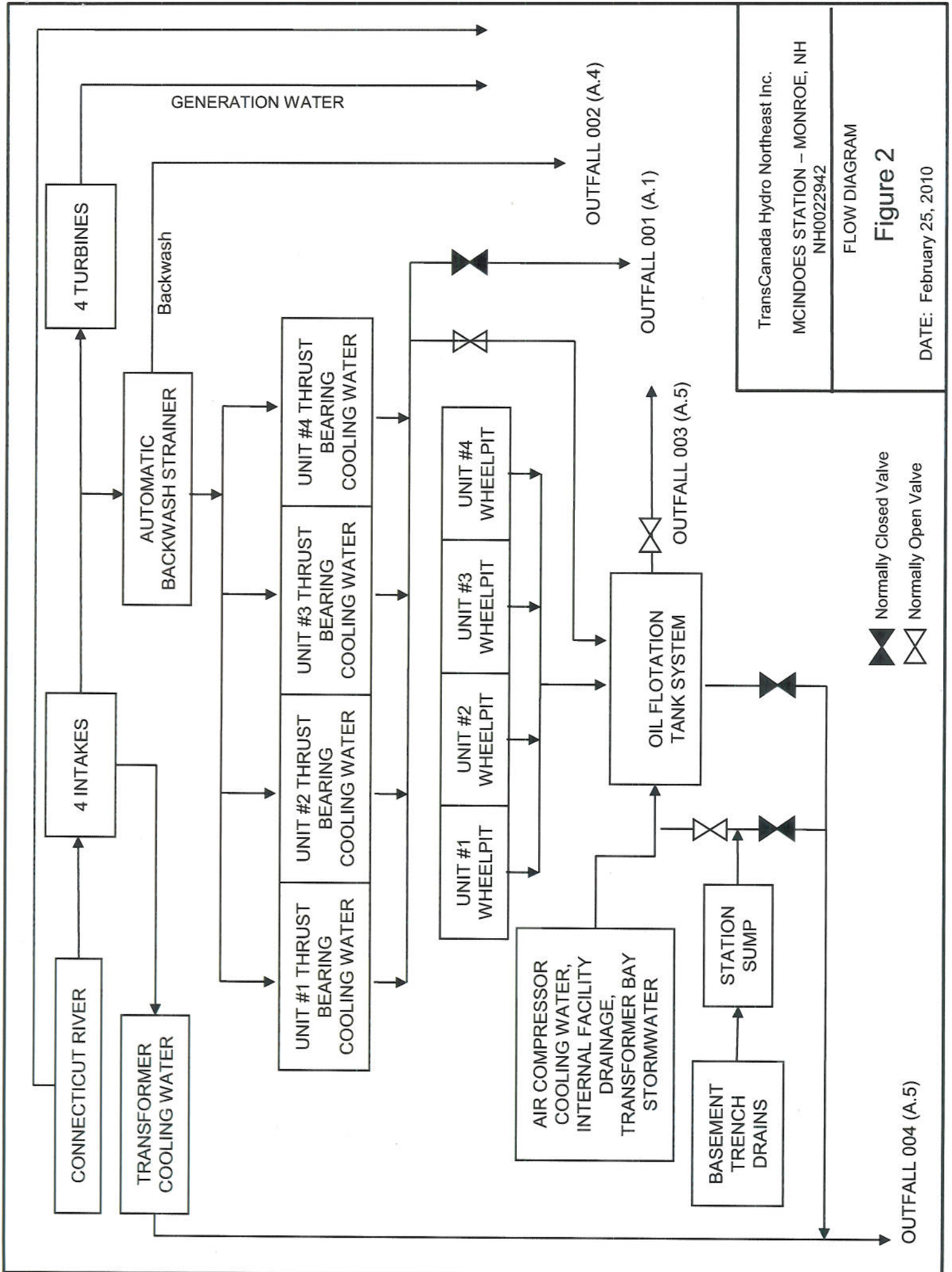
SITE LOCATION MAP

**TRANSCANADA HYDRO NORTHEAST, INC.
MCINDOES STATION,
MONROE, NH**

FIGURE 1

FEBRUARY 2010

Base map: USGS Topographic Quadrangles Barnet and Woodsville



TransCanada Hydro Northeast Inc.
 MCINDOES STATION – MONROE, NH
 NH0022942

FLOW DIAGRAM
Figure 2
 DATE: February 25, 2010

OUTFALL 004 (A.5)

TRANSCANADA HYDRO NORTHEAST INC. – MCINDOES STATION – NH0022942

General Permit # NHG360000 Notice of Intent
Attachment 1

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	44°15' 35.32" North, 72°03'34.61" West	A.1 – equipment related cooling water – back up discharge only	Units # 1-4 Thrust Bearing cooling water	n/a Back up only. Up to 86,400	Infrequent	None	Yes	No-Representative only of 001
002	44°15' 35.32" North, 72°03'34.61" West	A.4 – equipment related backwash strainer water	Automatic backwash strainer	12,000	Intermittent – runs a few seconds at a time, throughout the day and varies with inflow	None	Yes	No-Representative only of 002
003	44°15' 35.32" North, 72°03'34.61" West	A.5 – Combined discharge – equipment related cooling water, stormwater, and equipment and trench drain water.	Combined discharge – Oil flotation tank system (station sump, trench drains, transformer bay stormwater, station air compressor, Units # 1-4 thrust bearing cooling water).	Total up to 144,000 Bearing cooling water = 86,400. Other discharges combined up to 57,600	Intermittent on a daily basis. Cooling water goes on/off with unit generation – slightly before and after unit. Compressor is continuous.	Oil flotation	Yes	No-Representative only of 003
004	44°15' 35.32" North, 72°03'34.61" West	A.5 – Combined discharge- equipment related cooling water; and equipment and trench drain water – for maintenance and flood/high water only.	Combined discharge – Transformer Cooling Water; oil flotation tank bypass discharge; flood/high water sump discharge.	Total up to 230,400 Transformer cooling water = 144,000	Transformer discharge is continuous. Other discharges are infrequent.	None	Yes	No-Representative only of 004