



**Vermont Department of Environmental Conservation**

Watershed Management Division

1 National Life Drive, Main-2

Montpelier VT 05620-3522

*Agency of Natural Resources*

[phone] 802-828-1535

[fax] 802-828-1544

February 14, 2013

TransCanada Hydro Northeast, Inc  
David Murray  
2 Killen Street  
North Walpole, NH 03609

**RE: Draft Amended Discharge Permit No. 3-1395: Harriman facility**

Dear Mr. Murray,

The Department is proposing to issue the above referenced amended permit for the discharge of internal drainage water and non-contact cooling water from your Harriman facility to the Deerfield River.

A draft of this permit is enclosed for your review and comment. Please review the draft permit carefully. As requested in your application, this permit proposed to reduce the flow at discharge point S/N 003 from 0.432 MGD to 0.419 MGD and authorize discharge point S/N 004 with a flow of 0.013 MGD.

To expedite issuance of this permit, we are placing a draft on public notice for comment at this time. The notice period will run from February 19, 2013 through March 21, 2013.

After any comments received during the notice period have been addressed, the permit will be sent to the Secretary of the Agency of Natural Resources or her designated representative for final approval and signature.

If you have any questions regarding the draft permit, please contact Randy Bean at 802 490-6181.

Sincerely,

A handwritten signature in black ink, appearing to read "Ernest F. Kelley".

Ernest F. Kelley, Manager  
Wastewater Management Program

Attachments

AGENCY OF NATURAL RESOURCES  
DEPARTMENT OF ENVIRONMENTAL CONSERVATION  
WATERSHED MANAGEMENT DIVISION  
1 NATIONAL LIFE DRIVE  
MONTPELIER, VERMONT 05620-3522

Permit No.: 3-1395  
File No.: 13-20  
PIN: NS95-0168  
NPDES No.: VT0000809

**DRAFT**  
**AMENDED**  
DISCHARGE PERMIT

In compliance with the provisions of the Vermont Water Pollution Control Act, as amended, (10 V.S.A. Chapter 47 §1251 et. seq), the Vermont Water Pollution Control Regulations, and the Federal Clean Water Act, as amended (33 U.S.C. § 1251 et. seq),

TransCanada Hydro Northeast, Inc.  
2 Killeen Street  
North Walpole, NH 03609

(hereinafter referred to as the "permittee") is authorized, by the Secretary, Agency of Natural Resources, to discharge from a facility located at:

1096 Harriman Station Road  
Whitingham, Vermont

to the Deerfield River, Class B at the point of discharge in accordance with effluent limitations, monitoring requirements, and other conditions set forth in Parts I, II, III hereof.

This permit shall become effective on the date of signing.

This permit and the authorization to discharge shall expire on June 30, 2016.

David K. Mears, Commissioner  
Department of Environmental Conservation

By  
Peter LaFlamme, Director  
Watershed Management Division

Date:

**PART I****A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS**

1. From the date of signing through June 30, 2016, the permittee is authorized to discharge from outfall serial number S/N 003: Internal drainage water and bearing cooling water from Units #1, #2, and #3 after treatment via an oil water separator. Such discharges shall be limited and monitored by the permittee as specified below:

| Effluent Characteristic | Discharge Limitations |                              | Monitoring Requirements      |             |
|-------------------------|-----------------------|------------------------------|------------------------------|-------------|
|                         | Monthly Average       | Daily Maximum                | Measurement Frequency        | Sample Type |
| Flow                    |                       | <i>0.419 mgd</i>             | 1 x quarterly <sup>(1)</sup> | Estimate    |
| Temperature             |                       | 90°F <sup>(2)</sup>          | 1 x quarterly <sup>(1)</sup> | Grab        |
| Oil & Grease            |                       | 20 mg/l                      | 1 x quarterly <sup>(1)</sup> | Grab        |
| pH                      |                       | 6.5 to 8.5 SU <sup>(3)</sup> | 1 x quarterly <sup>(1)</sup> | Grab        |

Samples taken in compliance with the monitoring requirements specified above shall be taken from the outfall line.

- (1) Flow, temperature, oil & grease, and pH monitoring shall be done on the same day.
- (2) The temperature of the discharge shall not exceed 90°F at any time.
- (3) The pH of the discharge shall be between 6.5 and 8.5 S.U. or fall within the background range of the Deerfield River if it exceeds these limitations. Due to the natural pH variation of the river, an effluent sample within  $\pm 0.5$  of background shall be deemed acceptable. All pH monitoring results shall be included on the quarterly Discharge Monitoring Report, including any upstream river analyses.

2. From the date of signing through June 30, 2016, the permittee is authorized to discharge from outfall serial number S/N 004: Non-contact bearing cooling water from Units #1, #2, and #3. Such discharges shall be limited and monitored by the permittee as specified below:

| Effluent Characteristic | Discharge Limitations |                              | Monitoring Requirements      |             |
|-------------------------|-----------------------|------------------------------|------------------------------|-------------|
|                         | Monthly Average       | Daily Maximum                | Measurement Frequency        | Sample Type |
| Flow                    |                       | 0.013 mgd                    | 1 x quarterly <sup>(1)</sup> | Estimate    |
| Temperature             |                       | 90° F <sup>(2)</sup>         | 1 x quarterly <sup>(1)</sup> | Grab        |
| pH                      |                       | 6.5 to 8.5 SU <sup>(3)</sup> | 1 x quarterly <sup>(1)</sup> | Grab        |

*Samples taken in compliance with the monitoring requirements specified above shall be taken from the outfall line.*

- (1) *Flow, temperature, and pH monitoring shall be done on the same day.*
- (2) *The temperature of the discharge shall not exceed 90° F at any time.*
- (3) *The pH of the discharge shall be between 6.5 and 8.5 S.U. or fall within the background range of the Deerfield River if it exceeds these limitations. Due to the natural pH variation of the river, an effluent sample within  $\pm 0.5$  of background shall be deemed acceptable. All pH monitoring results shall be included on the quarterly Discharge Monitoring Report, including any upstream river analyses.*

**Note:** Discharge Points S/N 001 and S/N002 have been eliminated

### 3. Special Conditions

- a. The station sump shall be inspected weekly and cleaned as necessary. Any oil or absorbent materials shall be disposed in accordance with state and federal regulations and in such a manner to prevent the discharge of these materials to waters of the State.
- b. The discharge of cleaning or caustic chemicals to the tailrace is prohibited.
- c. The permittee shall continue to implement the Spill Prevention Control and Countermeasure Plan dated December 2001. Any significant changes to this plan shall be submitted to the Agency for review prior to implementation.
- d. This discharge shall not cause a violation of Water Quality Standards in the receiving water.

**B. REAPPLICATION**

If the permittee desires to continue to discharge after the expiration date of this permit, he shall apply on the application forms then in use at least 180 days before the permit expires.

Reapply for a Discharge permit by December 31, 2015.

**C. OPERATING FEES**

This discharge is subject to operating fees. The permittee shall submit the operating fees in accord with the procedures provided by the Secretary.

**D. MONITORING AND REPORTING****1. Sampling and Analysis**

The sampling, preservation, handling, and analytical methods used shall conform to regulations published pursuant to Section 304(g) of the Clean Water Act, under which such procedures may be required. Guidelines establishing these test procedures have been published in the Code of Federal Regulations, Title 40, Part 136 (Federal Register, Vol. 56, No. 195, July 1, 1999 or as amended).

Samples shall be representative of the volume and quality of effluent discharged over the sampling and reporting period. All samples are to be taken during normal operating hours. The permittee shall identify the effluent sampling location used for each discharge.

**2. Reporting**

The Permittee is required to submit monitoring results as specified on a Discharge Monitoring Report (Form WR-43). Reports are due on the 15th day of each month, beginning with the month following the effective date of this permit.

If, in any reporting period, there has been no discharge, the permittee must submit that information by the report due date.

Signed copies of these, and all other reports required herein, shall be submitted to the Secretary at the following address:

Agency of Natural Resources  
Department of Environmental Conservation  
Watershed Management Division  
1 National Life Drive, 2-Main  
Montpelier, Vermont 05620-3522

All reports shall be signed:

- a. In the case of corporations, by a principal executive officer of at least the level of vice president, or his/her duly authorized representative, if such representative is

responsible for the overall operation of the facility from which the discharge described in the permit form originates;

- b. In the case of a partnership, by a general partner;
- c. In the case of a sole proprietorship, by the proprietor;
- d. In the case of a municipal, State, or other public facility, by either a principal executive officer, ranking elected official, or other duly authorized employee.

### **3. Recording of Results**

The permittee shall maintain records of all information resulting from any monitoring activities required including:

- a. The exact place, date, and time of sampling;
- b. The dates and times the analyses were performed;
- c. The person(s) who performed the analyses;
- d. The analytical techniques and methods used including sample collection handling and preservation techniques;
- e. The results of all required analyses.
- f. The records of monitoring activities and results, including all instrumentation and calibration and maintenance records;
- g. The original calculation and data bench sheets of the operator who performed analysis of the influent or effluent pursuant to requirements of Section I.(A) of this permit.

The results of monitoring requirements shall be reported (in the units specified) on the Vermont reporting form WR-43 or other forms approved by the Secretary.

### **4. Additional Monitoring**

If the permittee monitors any pollutant at the location(s) designated herein more frequently than required by this permit, using approved analytical methods as specified above, the results of such monitoring shall be included in the calculation and reporting of the values required in the Discharge Monitoring Report Form WR-43. Such increased frequency shall also be indicated.

## PART II

### A. MANAGEMENT REQUIREMENTS

#### 1. Facility Modification / Change in Discharge:

All discharges authorized herein shall be consistent with the terms and conditions of this permit. The discharge of any pollutant more frequently than, or at a level in excess of, that identified and authorized by this permit shall constitute a violation of the terms and conditions of this permit. Such a violation may result in the imposition of civil and/or criminal penalties pursuant to 10 V.S.A. Chapters 47, 201, and/or 2011. Any anticipated facility expansions, production increases, or process modifications which will result in new, different, or increased discharges of pollutants must be reported by submission of a new permit application or, if such changes will not violate the effluent limitations specified in this permit, by notice to the permit issuing authority of such changes. Following such notice, the permit may be modified to specify and limit any pollutants not previously limited.

#### 2. Noncompliance Notification

In the event the permittee is unable to comply with any of the conditions of this permit due, among other reasons, to:

- a. breakdown or maintenance of waste treatment equipment (biological and physical-chemical systems including, but not limited to, all pipes, transfer pumps, compressors, collection ponds or tanks for the segregation of treated or untreated wastes, ion exchange columns, or carbon absorption units),
- b. accidents caused by human error or negligence, or
- c. other causes such as acts of nature,

the permittee shall notify the Secretary within 24 hours of becoming aware of such condition or by the next business day and shall provide the Secretary with the following information, in writing, within five (5) days:

- i. cause of non-compliance
- ii. a description of the non-complying discharge including its impact upon the receiving water;
- iii. anticipated time the condition of non-compliance is expected to continue or, if such condition has been corrected, the duration of the period of non-compliance;
- iv. steps taken by the permittee to reduce and eliminate the non-complying discharge; and

- v. steps to be taken by the permittee to prevent recurrence of the condition of non-compliance.

### **3. Operation and Maintenance**

All waste collection, control, treatment, and disposal facilities shall be operated in a manner consistent with the following:

- a. The permittee shall, at all times, maintain in good working order and operate as efficiently as possible all treatment or control facilities or systems installed or used by the permittee to achieve compliance with the terms and conditions of this permit.
- b. The permittee shall provide an adequate operating staff which is duly qualified to carry out the operation, maintenance, and testing functions required to insure compliance with the conditions of this permit.

### **4. Quality Control**

The permittee shall calibrate and perform maintenance procedures on all monitoring and analytical instrumentation at regular intervals to ensure accuracy of measurements, or shall ensure that both activities will be conducted.

The permittee shall keep records of these activities and shall provide such records upon request of the Secretary.

The permittee shall analyze any additional samples as may be required by the Agency of Natural Resources to ensure analytical quality control.

### **5. Bypass**

The diversion or bypass of facilities, necessary to maintain compliance with the terms and conditions of this permit, is prohibited, except where authorized under terms and conditions of an emergency pollution permit issued pursuant to 10 V.S.A. Section 1268.

### **6. Duty to Mitigate**

The permittee shall take all reasonable steps to minimize or prevent any adverse impact to waters of the State resulting from non-compliance with any condition specified in this permit, including accelerated or additional monitoring as necessary to determine the nature and impact of the non-complying discharge.

### **7. Records Retention**

All records and information resulting from the monitoring activities required by this permit including all records of analyses performed, calibration and maintenance of instrumentation, and recordings from continuous monitoring instrumentation shall be retained for a minimum of three (3) years, and shall be submitted to Department representatives upon request. This period shall be extended during the course of



unresolved litigation regarding the discharge of pollutants or when requested by the Secretary.

**8. Solids Management**

Collected screenings, sludges, and other solids removed in the course of treatment and control of wastewaters shall be stored, treated and disposed of in accord with 10 V.S.A., Chapter 159 and with the terms and conditions of any certification, interim or final, transitional operation authorization or order issued pursuant to 10 V.S.A., Chapter 159 that is in effect on the effective date of this permit or is issued during the term of this permit.

**9. Emergency Pollution Permits**

Maintenance activities, or emergencies resulting from equipment failure or malfunction, including power outages, which result in an effluent which exceeds the effluent limitations specified herein, shall be considered a violation of the conditions of this permit, unless the permittee immediately applies for, and obtains, an emergency pollution permit under the provisions of 10 V.S.A., Chapter 47, Section 1268. The permittee shall notify the Department of the emergency situation by the next working day.

10 V.S.A., Chapter 47, Section 1268 reads as follows:

"When a discharge permit holder finds that pollution abatement facilities require repairs, replacement or other corrective action in order for them to continue to meet standards specified in the permit, he may apply in the manner specified by the secretary for an emergency pollution permit for a term sufficient to effect repairs, replacements or other corrective action. The permit may be issued without prior public notice if the nature of the emergency will not provide sufficient time to give notice; provided that the secretary shall give public notice as soon as possible but in any event no later than five days after the effective date of the emergency pollution permit. No emergency pollution permit shall be issued unless the applicant certifies and the secretary finds that:

- (1) there is no present, reasonable alternative means of disposing of the waste other than by discharging it into the waters of the state during the limited period of time of the emergency;
- (2) the denial of an emergency pollution permit would work an extreme hardship upon the applicant;
- (3) the granting of an emergency pollution permit will result in some public benefit;
- (4) the discharge will not be unreasonably harmful to the quality of the receiving waters;
- (5) the cause or reason for the emergency is not due to wilful or intended acts or omissions of the applicant."

Application shall be made to the Secretary of the Agency of Natural Resources, Department of Environmental Conservation, 1 National Life Drive, Montpelier, Vermont 05620-3522.

## **10. Power Failure**

In order to maintain compliance with the effluent limitations and prohibitions of this permit, the permittee shall either:

- a. Provide an alternative power source sufficient to operate the wastewater control facilities, or if such alternative power source is not in existence,
- b. Halt, reduce, or otherwise control production and/or all discharges upon the reduction, loss, or failure of the primary source of power to the wastewater control facilities.

## **B. RESPONSIBILITIES**

### **1. Right of Entry**

The permittee shall allow the Secretary or authorized representative, upon the presentation of proper credentials:

- a. to enter upon the permittee's premises in which an effluent source or any records required to be kept under terms and conditions of the permit are located;
- b. to have access to and copy any records required to be kept under the terms and conditions of the permit;
- c. to inspect any monitoring equipment or method required in the permit; or
- d. to sample any discharge of pollutants.

### **2. Transfer of Ownership or Control**

This permit is not transferable without prior written approval of the Secretary. All application and operating fees must be paid in full prior to transfer of this permit. In the event of any change in control or ownership of facilities from which the authorized discharges emanate, the permittee shall provide a copy of this permit to the succeeding owner or controller and shall send written notification of the change in ownership or control to the Secretary. The permittee shall also inform the prospective owner or operator of their responsibility to make an application for transfer of this permit.

This request for transfer application must include as a minimum:

- a. A properly completed application form provided by the Secretary and the applicable processing fee.
- b. A written statement from the prospective owner or operator certifying:

- i.. The conditions of the operation that contribute to, or affect, the discharge will not be materially different under the new ownership.
  - ii. The prospective owner or operator has read and is familiar with the terms of the permit and agrees to comply with all terms and conditions of the permit.
  - iii. The prospective owner or operator has adequate funding to operate and maintain the treatment system and remain in compliance with the terms and conditions of the permit.
- c. The date of the sale or transfer.

The Secretary may require additional information dependent upon the current status of the facility operation, maintenance, and permit compliance.

### **3. Confidentiality**

Pursuant to 10 V.S.A. 1259(b):

“Any records, reports or information obtained under this permit program shall be available to the public for inspection and copying. However, upon a showing satisfactory to the secretary that any records, reports or information or part thereof, other than effluent data, would, if made public, divulge methods or processes entitled to protection as trade secrets, the secretary shall treat and protect those records, reports or information as confidential. Any records, reports or information accorded confidential treatment will be disclosed to authorized representatives of the state and the United States when relevant to any proceedings under this chapter.”

### **4. Permit Modification**

After notice and opportunity for a hearing, this permit may be modified, suspended, or revoked in whole or in part during its term for cause including, but not limited to, the following:

- a. violation of any terms or conditions of this permit;
- b. obtaining this permit by misrepresentation or failure to disclose fully all relevant facts; or
- c. a change in any condition that requires either a temporary or permanent reduction or elimination of the permitted discharge.

### **5. Toxic Effluent Standards**

That if a toxic effluent standard or prohibition (including any schedule of compliance specified in such effluent standard or prohibition) is established under section 307(a) of the Federal Act for a toxic pollutant which is present in the permittee's discharge and such standard or prohibition is more stringent than any limitation upon such pollutant in the

permit, the secretary shall revise or modify the permit in accordance with the toxic effluent standard or prohibition and so notify the permittee.

**6. Oil and Hazardous Substance Liability**

Nothing in this permit shall be construed to preclude the institution of legal action or relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee is or may be subject under 10 V.S.A. §1281.

**7. Civil and Criminal Liability**

Except as provided in, "Bypass" (Part II, paragraph A.5.), "Power Failure" (Part II, paragraph A.10.), and "Emergency Pollution Permits" (Part II, paragraph A.9.), nothing in this permit shall be construed to relieve the permittee from civil or criminal penalties for noncompliance. Civil and criminal penalties for non-compliance are provided for in 10 V.S.A. Chapter 47, 201 and 2011.

**8. State Laws**

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties established pursuant to any applicable State law or regulation under authority preserved by Section 510 of the Clean Water Act.

**9. Property Rights**

Issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State, or local laws or regulations.

**10. Severability**

The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

**11. Authority**

This permit is issued under authority of 10 V.S.A. §1258 and §1259 of the Vermont Water Pollution Control Act, the Vermont Water Pollution Control Regulations and Section 402 of the Clean Water Act, as amended. 10 V.S.A. §1259 states that: "No person shall discharge any waste, substance, or material into waters of the State, nor shall any person discharge any waste, substance, or material into an injection well or discharge into a publicly owned treatment works any waste which interferes with, passes through without treatment, or is otherwise incompatible with those works or would have a substantial adverse effect on those works or on water quality, without first obtaining a permit for that discharge from the Secretary".

### PART III

#### A. OTHER REQUIREMENTS

This permit shall be modified, suspended or revoked to comply with any applicable effluent standard or limitation issued or approved under Sections 301(b) (2) (C), and (D), 304(b) (2), and 307 (a) (2) of the Clean Water Act, if the effluent standard or limitation so issued or approved:

1. Contains different conditions or is otherwise more stringent than any effluent limitation in the permit; or
2. Controls any pollutant not limited in the permit.

The permit as modified under this paragraph shall also contain any other requirements of the Vermont Water Pollution Control Act then applicable.

#### B. DEFINITIONS

For purposes of this permit, the following definitions shall apply:

**The Act** - The Vermont Water Pollution Control Act, 10 V.S.A. Chapter 47

**Annual Average** - The highest allowable average of daily discharges calculated as the sum of all daily discharges (mg/l, lbs or gallons) measured during a calendar year divided by the number of daily discharges measured during that year.

**Average** - The arithmetic means of values taken at the frequency required for each parameter over the specified period.

**The Clean Water Act** - The federal Clean Water Act, as amended.

**Composite Sample** - A sample consisting of a minimum of one grab sample per hour collected during a 24-hour period (or lesser period as specified in the section on Monitoring and Reporting) and combined proportionally to flow over that same time period.

**Daily Discharge** - The discharge of a pollutant measured during a calendar day or any 24-hour period that reasonably represents the calendar day for purposes of sampling.

For pollutants with limitation expressed in pounds the daily discharge is calculated as the total pounds of pollutants discharged over the day.

For pollutants with limitations expressed in mg/l the daily discharge is calculated as the average measurement of the pollutant over the day.

**Grab Sample** - An individual sample collected in a period of less than 15 minutes.

**Incompatible Substance (Pollutant)** - Any waste being discharged into the treatment works which interferes with, passes through without treatment, or is otherwise incompatible with said

works or would have a substantial adverse effect on these works or on water quality. This includes all pollutants required to be regulated under the Federal Clean Water Act.

**Instantaneous Maximum** - A value not to be exceeded in any grab sample.

**Major Contributing Industry** - One that: (1) has a flow of 50,000 gallons or more per average work day; (2) has a flow greater than five percent of the flow carried by the municipal system receiving the waste; (3) has in its wastes a toxic pollutant in toxic amounts as defined in standards issued under Section 307(a) of the Act; or (4) has a significant impact, either singly or in combination with other contributing industries, on a publicly owned treatment works or on the quality of effluent from that treatment works.

**Maximum Day** (maximum daily discharge limitation) - The highest allowable "daily discharge" (mg/l, lbs or gallons).

**Mean** - The mean value is the arithmetic mean.

**Monthly Average** - (Average monthly discharge limitation) - The highest allowable average of daily discharges (mg/l, lbs or gallons) over a calendar month, calculated as the sum of all daily discharges (mg/l, lbs or gallons) measured during a calendar month divided by the number of daily discharges measured during that month.

**NPDES** - The National Pollutant Discharge Elimination System.

**Secretary** - The Secretary of the Agency of Natural Resources

**State Certifying Agency**     Agency of Natural Resources  
   Department of Environmental Conservation  
   Wastewater Management Division  
   103 South Main Street  
   Waterbury, Vermont 05671-0405

**Weekly Average** - (Average weekly discharge limitation) - The highest allowable average of daily discharges (mg/l, lbs or gallons) over a calendar week, calculated as the sum of all daily discharges (mg/l, lbs or gallons) measured during a calendar week divided by the number of daily discharges measured during that week.

AGENCY OF NATURAL RESOURCES  
DEPARTMENT OF ENVIRONMENTAL CONSERVATION  
WATERSHED MANAGEMENT DIVISION  
1 NATIONAL LIFE DRIVE  
MONTPELIER, VERMONT 05602-3522

FACT SHEET  
February 2013

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
AMENDED PERMIT TO DISCHARGE TO WATERS OF THE UNITED STATES

FILE NO.: 13-20  
PROJECT ID NO.: NS95-0168  
NPDES NO: VT0000809  
PERMIT NO.: 3-1395

NAME AND ADDRESS OF APPLICANT:

TransCanada Hydro Northeast, Inc  
2 Killen Street  
North Walpole, NH 03609

NAME AND ADDRESS OF FACILITY WHERE DISCHARGE OCCURS:

1096 Harriman Station Road  
Whitingham, Vermont

RECEIVING WATERS AND CLASSIFICATION: Deerfield River: Class B. Class B waters are suitable for bathing and recreation; irrigation and agricultural uses; good fish habitat; good aesthetic value; acceptable of public water supply with filtration and disinfection.

- I. Proposed Action, Type of Facility, and Discharge Location  
The above named applicant has applied to the Vermont Department of Environmental Conservation to amend its existing permit to discharge into the designated receiving water. The facility generates non-contact cooling water and other miscellaneous wastewaters.
- II. Description of Discharge  
This amended permit authorizes the discharge of 0.432 MGD, daily maximum, of non-contact cooling water and miscellaneous wastewaters. This is unchanged from the permit which currently authorizes this discharge. A quantitative description of the discharge in terms of significant effluent parameters is presented in section IV. below.
- III. Limitations and Conditions  
The effluent limitations of the permit, the monitoring requirements, and any implementation schedule (if required), may be found on the following pages of the permit:  
Effluent Limitations: Page 2 and 3  
Monitoring Requirements: Page 2 and 3

#### IV. Permit Basis and Explanation of Effluent Limitation Derivation

##### **History & Summary**

TransCanada Hydro Northeast, Inc. owns and operates a hydroelectric power generating facility at 1096 Harriman Station Road, Whitingham, VT. The facility uses water for cooling in the electrical generation process. Water is extracted from the river and is directed through the facility to provide cooling and is either discharged into the tailrace where it commingles with the water passing through the turbines and then is discharged to the river (S/N003) or is discharged directly to the river (S/N 004).

In order to implement internal plumping changes to improve the management of water within the facility it is necessary to discharge to the river at a location other than the currently authorized permitted outfall.

Therefore TransCanada has requested to amend this permit to authorize a discharge through additional outfall at the facility (S/N 004). To ensure there will be no increase in pollutants to the river, TransCanada is proposing to reduce the permitted flow at the existing outfall (S/N 003) to provide capacity for the additional discharge. In addition since the new discharge point (S/N 004), will only discharge non-contact cooling water from Units #1, #2, and #3, the mass discharge of oil and grease to the river via S/N 003 will be reduced.

Since there will be no increase in volume of water or pollutants discharged from this facility above currently permitted conditions, the provisions of Section 1-03 Anti-Degradation Policy and Section 1-04 Discharge Policy of the Vermont Water Quality Standards, effective December 30, 2011 are not applicable to this permit modification.

##### **Effluent Limitations**

###### **Discharge Point S/N 003 (Existing outfall):**

Internal Drainage Water and Bearing Cooling Water from Units #1, #2, and #3 after treatment via an oil water separator is discharge through this outfall.

###### **Flow**

This amended permit reduces the flow limitation at this discharge point from the currently permitted limitation of 0.432 MGD, daily maximum to 0.419 MGD, daily maximum. Quarterly flow monitoring is required.

###### **Temperature**

This amended permit contains an effluent temperature limitation of 90°F, daily maximum, and is unchanged from the current permit. This limitation ensures compliance with the requirements of Section 3-01B.1 of the Vermont Water Quality Standards (VWQS) since this discharge will commingle with river water in the tailrace and will not cause a measurable change in the river temperature downstream of the tailrace. Temperature monitoring is required once per quarter.

###### **Oil and Grease**

This amended permit contains an Oil and Grease limitation of 20 mg/l, daily maximum, and is established in support of the narrative standard in Section 3-01.B.5 of the VWQS. Sampling is



required once per quarter. This limitation and sampling frequency is unchanged from the current permit.

#### **pH**

The amended permit contains a pH limitation of 6.5 to 8.5 SU. This limitation is unchanged from the current permit and is based on Section 3-01.B.9 of the VWQS. Sampling of pH is required once per quarter. This sampling requirement is unchanged from the current permit.

#### **Discharge Point S/N 004: (Proposed Outfall)**

TransCanada is proposing to discharge only non-contact Bearing Cooling Water from Units #1, #2, and #3 through this outfall.

#### **Flow**

This permit contains a flow limitation at this discharge point of 0.013 MGD, daily maximum. This flow limitation is based on the information in the permit amendment application and is consistent with the flow reduction proposed at discharge point S/N 003. Quarterly flow monitoring is required.

#### **Temperature**

This permit contains an effluent temperature limitation of 90°F, daily maximum at this discharge point. This due to the small volume of this discharge, this temperature limitation ensures compliance with the requirements of Section 3-01B.1 of the VWQS and should not cause a measurable change in the river temperature. Temperature monitoring is required once per quarter.

#### **pH**

The permit contains a pH limitation of 6.5 to 8.5 SU at this discharge. This limitation is unchanged from the current permit and is based on Section 3-01.B.9 of the VWQS. Sampling of pH is required once per quarter

**Note: Discharge Points S/N 001 and S/N 002 were removed from service during a previous permit renewal.**

#### **V. Procedures for Formulation of Final Determinations**

The public comment period for receiving comments on this draft permit is from February 19, 2013 through March 21, 2013. During this time interested persons may submit their written views on the draft permit. All written comments will be retained by the Department and considered in the formulation of the final determination to issue, deny or modify the draft permit. The period of comment may be extended at the discretion of the Department.

Written comments should be sent to:

Vermont Agency of Natural Resources  
Department of Environmental Conservation  
Watershed Management Division  
1 National Life Drive  
Building 2 Main

Montpelier, VT 05620-3522

Comments may also be faxed to: 802-828-1544

Any interested person or groups of persons may request or petition for a public hearing with respect to this draft permit. Any such request or petition for a public hearing shall be filed within the public comment period described above and shall indicate the interest of the party filing such request and the reasons why a hearing is warranted.

The Department will hold a hearing if there is significant public interest in holding such a hearing. Any public hearing brought in response to such a request or petition will be held in the geographical area of the draft discharge or other appropriate area, at the discretion of the Department and may, as appropriate, consider related groups of draft permits. Any person may submit oral or written statements and data concerning the draft permit at the public hearing. The Department may establish reasonable limits on the time allowed for oral statements and may require the submission of statements in writing. All statements, comments, and data presented at the public hearing will be retained by the Department and considered in the formulation of the final determination to issue, deny, or modify the draft permit.

The complete application, draft permit, and other information are on file and may be inspected at the VTDEC, Watershed Management Division, Montpelier, VT. Copies will be made at a cost based on the current Secretary of State Official Fee Schedule for Copying Public Records from 8:00 AM to 4:30 PM, Monday through Friday. The draft permit and fact sheet may also be viewed on the Division's website at <http://www.watershedmanagement.vt.gov/>.



VERMONT

**Vermont Department of Environmental Conservation**

Watershed Management Division

1 National Life Drive, Main-2

Montpelier VT 05620-3522

*Agency of Natural Resources*

[phone] 802-828-1535

[fax] 802-828-1544

February 13, 2013

Town of Whitingham  
Attn: Almira L. Aekus, Clerk  
PO Box 529  
Jacksonville, VT 05342


Ms. Aekus,

Enclosed are copies of a public notice regarding the public comment period for a draft amended discharge permit that the Department is proposing to issue to TransCanada Northeast Hydro, Inc. for the discharge of internal drainage water and non-contact cooling water from their Harriman facility to the Deerfield River.

One of these notices is information for local officials. Would you please post the other in a public place for disseminating this information to local residents?

We are also sending copies of this notice to other local officials and interested persons who have asked to be included on our mailing list. We will be glad to send you additional copies if you desire or add names of interested parties to our mailing list.

Sincerely,

  
Ernest F. Kelley, Manager  
Wastewater Management Program

cc. (w/enclosure)  
Selectboard

AGENCY OF NATURAL RESOURCES  
DEPARTMENT OF ENVIRONMENTAL CONSERVATION  
WATERSHED MANAGEMENT DIVISION  
1 NATIONAL LIFE DRIVE – MAIN 2  
MONTPELIER, VERMONT 05620-3522

**NOTICE:** DRAFT AMENDED DISCHARGE PERMIT

**PUBLIC NOTICE NUMBER:** 3-1395

**PUBLIC COMMENT PERIOD:** February 19, 2013 through March 21, 2013

PERMITTEE INFORMATION

**PERMITTEE NAME:** TransCanada Hydro Northeast, Inc

**PERMITTEE ADDRESS:** 2 Killeen Street  
North Walpole, NH 03609

**PERMIT NUMBER:** 3-1395

DISCHARGE INFORMATION

**NATURE:** Internal Drainage water and non-contact cooling water

**VOLUME:** S/N 003: 0.419 MGD, daily maximum  
S/N 004: 0.013 MGD, daily maximum  
Note: Discharge Points S/N 001 & S/N 002 have been eliminated

**RECEIVING WATER:** Deerfield River

**EXPIRATION DATE:** June 30, 2016

**DESCRIPTION:** This is a draft amended discharge permit proposed for issuance to TransCanada Hydro Northeast, Inc. for the discharge of internal drainage water and non-contact cooling water from their facility located at 1096 Harriman Station Road, Whitingham, Vermont to the Deerfield River. This is a modification of an existing permit which proposes to reduce the currently authorized volume of water discharged at S/N 003 from 0.432 MGD, daily maximum, to 0.419 MGD, daily maximum, and discharge 0.013 MGD, daily maximum, from discharge point S/N 004.

TENTATIVE DETERMINATIONS

Tentative determinations regarding effluent limitations and other conditions to be imposed on the pending Vermont permit have been made by the State of Vermont Agency of Natural Resources (VANR). The limitations imposed will assure that the Vermont Water Quality Standards and applicable provisions of the Federal Clean Water Act, PL 92-500, as amended, will be met.

### FURTHER INFORMATION

The complete application, proposed permit, and other information are on file and may be inspected by appointment at 1 National Life Drive – Main 2, Montpelier, Vermont. Copies, obtained by calling 802-490-6182, will be made at a cost based upon the current Secretary of State Official Fee Schedule for Copying Public Records from 7:45 a.m. to 4:30 p.m., Monday through Friday. The draft permit and fact sheet may also be viewed on the Division's website at <http://www.watershedmanagement.vt.gov/>

### PUBLIC COMMENTS/PUBLIC HEARINGS

Written public comments on the proposed permit are invited and must be received on or before the close of business day (4:30 pm) **March 21, 2013**.

Comments should be submitted to the Agency of Natural Resources, Department of Environmental Conservation, Watershed Management Division, 1 National Life Drive – Main 2, Vermont 05620-3522.

Comments may also be faxed to 802 8281544 or submitted by e-mail using the e-mail comment provisions included at <http://www.watershedmanagement.vt.gov/>. All comments received by the above date will be considered in formulation of the final determinations.

During the notice period, any person may submit a written request to this office for a public hearing to consider the proposed permit. The request must state the interest of the party filing such request and the reasons why a hearing is warranted. A hearing will be held if there is a significant public interest (including the filing of requests or petitions for such hearing) in holding such a hearing.

### FINAL ACTION/RIGHTS TO APPEAL TO THE ENVIRONMENTAL COURT

At the conclusion of the public notice period and after consideration of additional information received during the public notice period, the VANR will make a final determination to issue or to deny the permit. Pursuant to 10 V.S.A. Chapter 220, any appeal of this decision must be filed with the clerk of the Environmental Court within 30 days of the date of the decision. The appellant must attach to the Notice of Appeal, the entry fee of \$262.50, payable to the state of Vermont.

The Notice of Appeal must specify the parties taking the appeal and the statutory provision under which each party claims party status; must designate the act or decision appealed from; must name the Environmental Court; and must be signed by the appellant or their attorney. In addition, the appeal must give the address or location and the description of the property, project or facility with which the appeal is concerned and the name of the applicant or any permit involved in the appeal.

The appellant must also serve a copy of the Notice of Appeal in accordance with Rule 5(b)(4)(B) of the Vermont Rules for Environmental Court Proceedings.

For further information, see the Vermont Rules for Environmental Court Proceedings, available on line at [www.vermontjudiciary.org](http://www.vermontjudiciary.org). The address for the Environmental Court is: 2418 Airport Road, Suite 1, Barre, VT 05641-8701 (Tel. 802-828-1660).

David K Mears, Commissioner  
Department of Environmental Conservation