

ENVIRONMENTAL COMPLIANCE APPROVAL

NUMBER 2031-BMEQ4D
Issue Date: March 30, 2020

Ontario Power Generation Inc.
167 Burwood Road
Post Office Box, No. 10159
Thunder Bay, Ontario
P7B 6T7

Site Location: Cameron Falls Generating Station
Lot 2, Concession 4
Unorganized Township of Purdom
City of Thunder Bay

You have applied under section 20.2 of Part II.1 of the Environmental Protection Act, R.S.O. 1990, c. E. 19 (Environmental Protection Act) for approval of:

the establishment of sewage works for the collection, transmission, treatment and disposal of leakage water from the Cameron Falls Generating Station located approximately 21 kilometres north of the Town of Nipigon, consisting of the following:

- one (1) aboveground Highland Tank oil/water separator, approximately 3.4 metres by 1.5 metres by 1.2 metres, located within the G7 Powerhouse, consisting of eighteen (18) parallel corrugated plates, with an overall capacity of 5,754 litres and a maximum oil storage capacity of 3,975 litres, rated at approximately 284 litres per minute with oil detection and control systems in place, the oil stored in a 2,200 litre waste oil tank and disposed off-site, and the final effluent discharged by gravity via a 150 millimetre diameter pipe into Nipigon River;

all other controls, electrical equipment, instrumentation, piping, pumps, valves and appurtenances essential for the proper operation of the aforementioned sewage works;

For the purpose of this environmental compliance approval, the following definitions apply:

1. "Approval" means this entire document and any schedules attached to it, and the application;
2. "Director" means a person appointed by the Minister pursuant to section 5 of the EPA for the purposes of Part II.1 of the EPA;

3. "District Manager" means the District Manager of the appropriate local district office of the Ministry where the Works is geographically located;
4. "EPA" means the *Environmental Protection Act* , R.S.O. 1990, c.E.19, as amended;
5. "Ministry" means the ministry of the government of Ontario responsible for the EPA and OWRA and includes all officials, employees or other persons acting on its behalf;
6. "Owner" means Ontario Power Generation Inc. and its successors and assignees;
7. "OWRA" means the *Ontario Water Resources Act* , R.S.O. 1990, c. O.40, as amended; and
8. "Works" means the sewage works described in the Owner's application, and this Approval, and includes Proposed Works.

You are hereby notified that this environmental compliance approval is issued to you subject to the terms and conditions outlined below:

TERMS AND CONDITIONS

1. GENERAL CONDITION

1. The Owner shall ensure that any person authorized to carry out work on or operate any aspect of the Works is notified of this Approval and the conditions herein and shall take all reasonable measures to ensure any such person complies with the same.
2. Except as otherwise provided by these conditions, the Owner shall design, build, install, operate and maintain the Works in accordance with the description given in this Approval, and the application for approval of the Works.
3. Where there is a conflict between a provision of any document in the schedule referred to in this Approval and the conditions of this Approval, the Conditions in this Approval shall take precedence, and where there is a conflict between the documents in the schedule, the document bearing the most recent date shall prevail.
4. Where there is a conflict between the documents listed in the Schedule submitted documents, and the application, the application shall take precedence unless it is clear that the purpose of the document was to amend the application.
5. The Conditions of this Approval are severable. If any Condition of this Approval, or the application of any requirement of this Approval to any circumstance, is held invalid or unenforceable, the application of such condition to other circumstances and the remainder of this Approval shall not be affected thereby.

6. The issuance of, and compliance with the conditions of, this Approval **does not**:
 - a. relieve any person of any obligation to comply with any provision of any applicable statute, regulation or other legal requirement, including, but not limited to, the obligation to obtain approval from the local conservation authority necessary to construct or operate the sewage Works; or
 - b. limit in any way the authority of the Ministry to require certain steps be taken to require the Owner to furnish any further information related to compliance with this Approval.

2. EXPIRY OF APPROVAL

1. This Approval will cease to apply to those parts of the Works which have not been constructed within **five (5) years** of the date of this Approval.

3. CHANGE OF OWNER

1. The Owner shall notify the District Manager and the Director, in writing, of any of the following changes within **thirty (30) days** of the change occurring:
 - a. change of Owner or operating authority, or both;
 - b. change of address of Owner or operating authority or address of new Owner or operating authority;
 - c. change of partners where the Owner or operating authority is or at any time becomes a partnership, and a copy of the most recent declaration filed under the *Business Names Act, R.S.O. 1990, c. B.17* ; and
 - d. change of name of the corporation where the Owner or operator is or at any time becomes a corporation, and a copy of the “Initial Return” or “Notice of Change” filed under the *Corporations Information Act, R.S.O. 1990, c. C.39* , shall be included in the notification to the District Manager.
2. In the event of any change in ownership of the Works, the Owner shall notify in writing the succeeding owner of the existence of this Approval, and a copy of such notice shall be forwarded to the District Manager.
3. The Owner shall ensure that all communications made pursuant to this condition will refer to this Approval's number.

4. CONSTRUCTION

1. Upon construction of the Works, the Owner shall prepare a statement, certified by a Professional Engineer, that the Works are constructed in accordance with this Approval, and upon request, shall make the written statement available for inspection by Ministry staff.
2. Within **six (6) months** of the construction of the Works, a set of as-built drawings showing the Works "as constructed" shall be prepared. These drawings shall be kept up to date through revision undertaken from time to time and a copy shall be retained for the operational life of the Works.

5. OPERATION AND MAINTENANCE

1. The Owner shall ensure that the works and related equipment and appurtenances which are installed or used to achieve compliance with this Approval are properly operated and maintained.
2. The Owner shall carry out on a regular basis specific maintenance requirements and scheduling to ensure proper operation of the works.
3. The Owner shall use best effort to immediately identify and cleanup all losses of oil from the equipment located within the works area.
4. The Owner shall, upon identification of a loss of oil from G7 Powerhouse, take immediate action to prevent the further occurrence of such loss.

6. EFFLUENT OBJECTIVES

1. The Owner shall use best efforts to design, construct and operate the Works with the objective that the concentrations of the materials named as effluent parameters in the Effluent Objectives Table listed in **Schedule B** are not exceeded in the effluent being discharged to the Nipigon River.
2. In the event of an exceedance of the Effluent Objective set out in **Schedule B**, the Owner shall,
 - a. notify the District Manager as soon as possible during normal working hours;
 - b. take immediate action to identify the source of contamination; and
 - c. take immediate action to prevent further exceedance.
3. The Owner shall use best efforts to ensure that the effluent from the Works is essentially free of floating and settleable solids and does not contain oil or any other substance in amounts sufficient to create a visible film or sheen or foam or discolouration on the receiving waters.
4. The Owner shall include in all reports submitted in accordance with Condition 8 and 9, a summary of the efforts made and results achieved under this Condition.

7. EFFLUENT MONITORING AND RECORDING

- o The Owner shall, upon commencement of operation of the sewage works, carry out a monitoring program:
 1. All samples and measurements taken for the purposes of this Approval are to be taken at a time and in a location characteristic of the quality and quantity of the effluent stream over the time period being monitored.
 2. Samples shall be collected and analyzed at the following sampling point(s), at the sampling frequencies and using the sample type specified for each parameter listed in the effluent monitoring table in **Schedule B**.
 3. The methods and protocols for sampling, analysis and recording shall conform, in order of precedence, to the methods and protocols specified in the following
 - a. the Ministry's publication "Protocol for the Sampling and Analysis of Industrial/Municipal Wastewater" (January 1999), ISBN 0-7778-1880-9, as amended from time to time by more recently published editions.
 - b. the publication "Standard Methods for the Examination of Water and Wastewater" (21st edition), as amended from time to time by more recently published editions;
 4. The Owner shall supplement this monitoring program with visual inspections which shall include the following:
 - a. quarterly inspection of the effluent from the oil/water separator for any visible oil sheen; and
 - b. quarterly inspection of the contents of the oil/water separator.
 5. The measurement frequencies specified in the effluent monitoring table in **Schedule B** in respect of any parameter are minimum requirements which may, after 12 months of monitoring in accordance with this Condition, be modified by the District Manager in writing from time to time.

8. OPERATIONS MANUAL

1. The Owner shall prepare an operations manual within 6 months of the commencement of the operation of the works , that includes, but not necessarily limited to, the following information:
 - a. operating procedures for routine operation of the Works;
 - b. inspection programs, including frequency of inspection, for the Works and the

methods or tests employed to detect when maintenance is necessary;

- c. repair and maintenance programs, including the frequency of repair and maintenance for the Works;
 - d. contingency plans and procedures for dealing with potential spill, bypasses and any other abnormal situations and for notifying the District Manager; and
 - e. complaint procedures for receiving and responding to public complaints.
2. The Owner shall maintain the operations manual up to date through revisions undertaken from time to time and retain a copy at the location of the Works or at the offices of the operating authority as for as long as the Works are in operation. Upon request, the Owner shall make the manual available for inspection and copying by Ministry personnel.

9. REPORTING

1. One week prior to the start up of the operation of the Works, the Owner shall notify the District Manager (in writing) of the pending start up date.
2. The Owner shall report to the District Manager or designate, any exceedance of any parameter specified in **Schedule B** orally, as soon as reasonably possible, and in writing within **seven (7) days** of becoming aware of the exceedance.
3. In addition to the obligations under Part X of the Environmental Protection Act, the Owner shall, within **ten (10) working days** of the occurrence of any reportable spill as defined in Ontario Regulation 675/98, bypass or loss of any product, by-product, intermediate product, oil, solvent, waste material or any other polluting substance into the environment, submit a full written report of the occurrence to the District Manager describing the cause and discovery of the spill or loss, clean-up and recovery measures taken, preventative measures to be taken and schedule of implementation.
4. The Owner shall prepare and submit a performance report to the District Manager on an annual basis within **ninety (90) days** following the end of the period being reported upon. The first such report shall cover the first annual period following the commencement of operation of the Works and subsequent reports shall be submitted to cover successive annual periods following thereafter. The reports shall contain, but shall not be limited to, the following information:
 - a. a summary and interpretation of all monitoring data and a comparison to the effluent objectives outlined in **Schedule B**, including an overview of the success and adequacy of the sewage Works;
 - b. a description of any operating problems encountered and corrective actions taken;
 - c. a summary of all maintenance carried out on any major structure, equipment,

apparatus, mechanism or thing forming part of the sewage works;

- d. a summary of any effluent quality assurance or control measures undertaken in the reporting period;
 - e. a summary of the calibration and maintenance carried out on all effluent monitoring equipment;
 - f. a description of efforts made and results achieved in meeting the Effluent Objectives in **Schedule B**; and
 - g. any other information the District Manager requires from time to time.
5. After **three (3) years**, the reporting requirements under this section may be altered on the written authorization of the District Manager.

10. RECORD KEEPING

1. The Owner shall maintain records at the office of the operating authority at all times, which upon request must be made available for inspection and copying by Ministry personnel. The records shall include the following:
 - a. results of the monitoring required by Condition 7, and
 - b. quantity and frequency of slop oil disposal from the separator, including a copy of the disposal manifest.
2. The Owner shall maintain the records above for a period of at least three (3) years from the date in which a particular record was created.

The reasons for the imposition of these terms and conditions are as follows:

1. Condition 1 is imposed to ensure that the Works are built and operated in the manner in which they were described for review and upon which approval was granted. This condition is also included to emphasize the precedence of Conditions in the Approval and the practice that the Approval is based on the most current document, if several conflicting documents are submitted for review. The condition also advises the Owners their responsibility to notify any person they authorized to carry out work pursuant to this Approval the existence of this Approval.
2. Condition 2 is included to ensure that the Works are constructed in a timely manner so that standards applicable at the time of Approval of the Works are still applicable at the time of construction, to ensure the ongoing protection of the environment.
3. Condition 3 is included to ensure that the Ministry records are kept accurate and current with respect to the approved works and to ensure that subsequent owners of the Works are made aware of

the Approval and continue to operate the Works in compliance with it.

4. Condition 4 is included to ensure that the Works are constructed in accordance with the approval and that record drawings of the Works “as constructed” are maintained for future references.
5. Condition 5 is included to ensure that the works will be operated and maintained in a manner enabling compliance with the terms and conditions of this Certificate, such that the environment is protected and deterioration, loss, injury or damage to any person or property is minimized and/or prevented.
6. Condition 6 is included to establish non-enforceable effluent quality objectives which the Owner is obligated to use best efforts to strive towards on an ongoing basis. These objectives are to be used as a mechanism to trigger corrective action proactively and voluntarily before environmental impairment occurs.
7. Condition 7 is included to ensure that the effluent discharged from the works meets the Ministry's effluent quality objectives thus minimizing potential negative impacts on the environment.
8. Condition 8 is included to ensure that a comprehensive operations manual governing all significant areas of operation, maintenance and repair is prepared, implemented and kept current by the Owner and made available to the Ministry, upon request. Such a manual is an integral part of the operation of the works. Its compilation and use should assist the Owner in staff training, in proper works operation and in identifying and planning for contingencies during possible abnormal conditions. The manual will also act as a bench-mark for Ministry staff when reviewing the Owner's operation of the works.
9. Condition 9 is included to provide a performance record for future references, to ensure that the Ministry is made aware of problems as they arise, and to provide a compliance record for all the terms and conditions outlined in this Approval, so that the Ministry can work with the Owner in resolving any problems in a timely manner.
10. Condition 10 is included to ensure that accurate information is readily available so that a proper and accurate assessment of the operating performance of the Works may be conducted and that appropriate measures be taken should the operating performance of the Works not be satisfactory.

Schedule B

Effluent Objectives Table

Effluent Parameter	Concentration Objective
Oil and Grease	15 mg/L
Phenolics (4AAP)	20 ug/L

Effluent Monitoring Table (Effluent from the oil/water separator)

Frequency	Quarterly
Sample Type	Grab
Parameters	Oil and Grease & Phenolics

In accordance with Section 139 of the Environmental Protection Act, you may by written Notice served upon me, the Environmental Review Tribunal and in accordance with Section 47 of the Environmental Bill of Rights, 1993, the Minister of the Environment, Conservation and Parks, within 15 days after receipt of this Notice, require a hearing by the Tribunal. The Minister of the Environment, Conservation and Parks will place notice of your appeal on the Environmental Registry. Section 142 of the Environmental Protection Act provides that the Notice requiring the hearing shall state:

- a. The portions of the environmental compliance approval or each term or condition in the environmental compliance approval in respect of which the hearing is required, and;
- b. The grounds on which you intend to rely at the hearing in relation to each portion appealed.

The Notice should also include:

1. The name of the appellant;
2. The address of the appellant;
3. The environmental compliance approval number;
4. The date of the environmental compliance approval;
5. The name of the Director, and;
6. The municipality or municipalities within which the project is to be engaged in.

And the Notice should be signed and dated by the appellant.

This Notice must be served upon:

The Secretary*
Environmental Review Tribunal
655 Bay Street, Suite 1500
Toronto, Ontario
M5G 1E5

AND

The Minister of the Environment,
Conservation and Parks
777 Bay Street, 5th Floor
Toronto, Ontario
M7A 2J3

AND

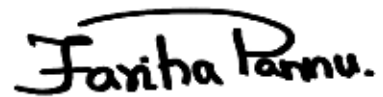
The Director appointed for the purposes of
Part II.1 of the Environmental Protection Act
Ministry of the Environment,
Conservation and Parks
135 St. Clair Avenue West, 1st Floor
Toronto, Ontario
M4V 1P5

*** Further information on the Environmental Review Tribunal's requirements for an appeal can be obtained directly from the Tribunal at: Tel: (416) 212-6349, Fax: (416) 326-5370 or www.ert.gov.on.ca**

This instrument is subject to Section 38 of the Environmental Bill of Rights, 1993, that allows residents of Ontario to seek leave to appeal the decision on this instrument. Residents of Ontario may seek leave to appeal within 15 days from the date this decision is placed on the Environmental Registry. By accessing the Environmental Registry at <https://ero.ontario.ca/>, you can determine when the leave to appeal period ends.

The above noted activity is approved under s.20.3 of Part II.1 of the Environmental Protection Act.

DATED AT TORONTO this 30th day of March, 2020

A handwritten signature in black ink that reads "Fariha Pannu." The signature is written in a cursive style with a horizontal line above the name.

Fariha Pannu, P.Eng.

Director

appointed for the purposes of Part II.1 of the
Environmental Protection Act

SF/

c: District Manager, MECP Thunder Bay District Office
Adrienne Igo, Ontario Power Generation Inc.