# APPROVAL TO OPERATE

# I-10607

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**Pursuant to paragraph 5 (3) (a) of the *Air Quality Regulation - Clean Air Act*, this Approval to Operate is hereby issued to:**

## New Brunswick Power Corporation

**for the operation of the**

## Coleson Cove Thermal Generating Station

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|---|---|---|
| Description of Source: | **Operation of the 1050 MWe Coleson Cove Thermal Generating Station** | |
| Source Classification: | **Air Quality Regulation** | **Class 1A** |
| Parcel Identifier: | **00434522** | |

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|---|---|
| Mailing Address: | **P.O. Box 2000**<br>**515 King Street**<br>**Fredericton, NB  E3B 4X1** |
| Conditions of Approval: | **See attached Schedule  "A" of this Approval** |
| Supersedes Approval: | **I-8830** |
| Valid From: | **February 6, 2020** |
| Valid To: | **February 5, 2025** |

Recommended by: _____

Issued by: _____ February 6, 2020

for the Minister of Environment and Local Government Date

# SCHEDULE "A"

## A. DESCRIPTION AND LOCATION OF SOURCE

The New Brunswick Power Corporation operates the Coleson Cove Thermal Generating Station in Lorneville, near Saint John. The station generates electricity from the combustion of heavy fuel oil in two boilers and from the combustion of petroleum coke and heavy fuel oil in a third boiler. Each of the three boilers is rated at approximately 350 megawatts. In general, the facility consists of three power boilers, an auxiliary boiler, three electrostatic precipitators, two flue gas desulphurization units, two wet electrostatic precipitators, an ash collection and reinjection system, turbine/generator assemblies, petroleum storage tanks, petroleum coke storage facilities and fuel handling and loading systems, and associated equipment.

This approval allows New Brunswick Power Corporation to co-fire petroleum coke and heavy fuel oil in boiler #3 only and subject to the conditions contained in this approval.

The operation of the Coleson Cove Thermal Generating Station, located on the King William Road, in the Community of Lorneville, County of St. John, and the Province of New Brunswick and identified by parcel identifier (PID) 00434522, **is hereby approved under the *Air Quality Regulation - Clean Air Act* subject to the following:**

## B. DEFINITIONS

1. **"Approval Holder"** means New Brunswick Power Corporation.

2. "**Department**" means the New Brunswick Department of Environment and Local Government.

3. **"Inspector"** means an Inspector designated under the *Clean Air Act*, the *Clean Environment Act*, or the *Clean Water Act*.

4. **"environmental emergency"** means a situation where there has been or will be a release, discharge, or deposit of a contaminant or contaminants to the atmosphere, soil, surface water, and/or groundwater environments of such a magnitude or duration that it could cause significant harm to the environment or put the health of the public at risk.

5. **"after hours"** means the hours when the Department's offices are closed. These include statutory holidays, weekends, and the hours before 8:15 a.m. and after 4:30 p.m. from Monday to Friday.

6. **"normal business hours"** means the hours when the Department's offices are open. These include the period between 8:15 a.m. and 4:30 p.m. from Monday to Friday excluding statutory holidays.

7. **"statutory holiday"** means New Year's Day, Good Friday, Easter Monday, Victoria Day, Canada Day, New Brunswick Day, Labour Day, Thanksgiving Day, Remembrance Day, Christmas Day and Boxing Day. If the Statutory Holiday falls on a Sunday, the following day shall be considered as the Statutory Holiday.

8. **"Facility"** means the property, buildings, and equipment as identified in the Description and Location of Source above, and all contiguous property in the title of the Approval Holder at that location, including but not limited to the following equipment, machinery, units and operation associated therewith:

1) POWER BOILERS - Three (3) steam generating boilers manufactured by Babcock and Wilcox Ltd., burning No. 6 fuel oil as the primary fuel, each rated at approximately 350 megawatts-electrical (MWe). One boiler (Unit #3) is also approved to burn a blended fuel consisting petroleum coke and No. 6 fuel oil. Each boiler is equipped with low $NO_x$ burners, reburn burners, flue gas recirculation, and overfire air injection to control emissions of nitrogen oxides at the source, and each producing, at maximum continuous rating, 979,200 kilograms per hour of steam at 16,200 kilopascals and 530°C;

2) ELECTROSTATIC PRECIPITATORS - One (1) Joy Manufacturing Company Limited electrostatic precipitator for Unit #1 and two (2) Hamon Research-Cottrell designed electrostatic precipitators, one for each of Unit #2 and Unit #3, used for the removal of particulate matter from the flue gas;

3) FLUE GAS DESULPHURIZATION SYSTEM (FGD) - Two FGDs, each sized for 50% of the station full load gas flow, designed to remove 70 - 90% of the $SO_2$ emissions contained in the flue gas leaving the boilers. The flue gases are scrubbed by passing them through a spray of limestone and water. This mixture reacts with the $SO_2$ in the flue gases and the resulting chemical reaction produces gypsum slurry.

4) WET ELECTROSTATIC PRECIPITATORS (WESP) - Two wet electrostatic precipitators (WESP) installed to control emissions, including sulphur trioxide, a major component of fine particulate in the visible plume exiting the stack. Each WESP is located at the outlet of the FGD absorber tower.

5) ASH COLLECTION AND REINJECTION SYSTEMS - Three (3) Flakt ash collection and reinjection systems, used for the collection and reinjection of fly ash removed by the electrostatic precipitators back into the boilers for further combustion;

6) TURBINE/GENERATOR ASSEMBLIES - Three (3) Hitachi Company turbine/generator assemblies used to convert the heat energy from the steam into mechanical energy, then to convert the mechanical energy from the rotation of turbines into electricity;

7) CONTINUOUS EMISSION MONITORING SYSTEM - Each flue of the new stack is equipped with continuous emission monitors (CEMs) for opacity, sulphur dioxide ($SO_2$) and nitrogen oxides (NOx), used to measure emission levels to the atmosphere. Oxygen and carbon monoxide levels are measured for combustion control purposes within the boilers;

8) NEW STACK - One 183 meter (600 foot) new stack used to exhaust flue gases to the atmosphere. The new stack is equipped with two (2) flues, one for each FGD absorber tower;

9) EXISTING STACK - One 183 meter (600 foot) existing stack used to exhaust flue gases to the atmosphere during startups, shutdowns, emergency events and during commissioning of the FGD absorber towers. The existing stack is equipped with three (3) flues, one for each boiler; and

10) AUXILIARY BOILER - One (1) 82,500 pph, low NOx, 350 psig trailer mounted auxiliary boiler burning #2 fuel oil with a 2m high tub stack and a diameter of 1.5 m.

9. **"Annual Capacity Factor"** means the ratio of the average power load developed by a boiler for a given year to the total capacity rating of the boiler had it been operational at each hour throughout the year.

10. **"720 hour rolling average"** means, for each pollutant, the average of the consecutive hourly mean emission rates, determined for the preceding 720 hours of Facility operation. Intervals of time where the emission rate is at or near zero, when the Facility is not in operation, are not to be included in the calculation of the rolling average.

11. "SWIM" means Environment Canada's Single Window Information Manager, which is a one-window secure online electronic data reporting system accessible at www.ghgreporting.gc.ca.

12. **"standard conditions"** means the basis to which determined contaminant concentration may be corrected. These conditions are a temperature of 21.0 degrees Celsius and a pressure of 101.3 kilopascals.

## C. EMERGENCY REPORTING

13. Initial Notification

Immediately following the discovery of an environmental emergency, a designate representing the Approval Holder shall notify the Department in the following manner:

During normal business hours, telephone the Department's Saint John Regional Office **until personal contact is made** (i.e. no voice mail messages will be accepted) and provide as much information that is known about the environmental emergency. The telephone number for the Saint John Regional Office is provided below:

Saint John Regional Office (506) 658-2558

**After hours, telephone Environment and Climate Change Canada's National Environmental Emergencies Centre (NEEC)** until personal contact is made **and provide as much information that is known about the environmental emergency. The telephone number for NEEC is provided below:**

**NECC (Phone) at 1-800-565-1633**

14. Follow-Up

Within 24-hours of the time of initial notification, a **Preliminary Emergency Report** shall be filed via email by a designate representing the Approval Holder to the Department's Saint John Regional Office *as well as* to the Department's Central Office. The Preliminary Emergency Report shall clearly communicate all information available at the time about the environmental emergency.

Within five (5) days of the time of initial notification, a **Detailed Emergency Report** shall be filed via email by a designate representing the Approval Holder to the Department's Saint John Regional Office *as well as* to the Department's Central Office:

The **Detailed Emergency Report** shall include, as a minimum, the following:

i) a description of the problem that occurred;

ii) a description of the impact that occurred;

iii) a description of what was done to minimize the impact; and

iv) a description of what was done to prevent recurrence of the problem.

## D. GENERAL INFORMATION

15. The Approval Holder shall operate the Facility in compliance with the *Air Quality Regulation* 97-133 filed under the *Clean Air Act* of the Province of New Brunswick. Violation of this Approval or any condition herein stated constitutes a violation of the *Clean Air Act*.

16. The terms and conditions of this Approval are severable. If any term or condition of this Approval is held invalid, is revoked or is modified, the remainder of the Approval shall not be affected.

17. An Inspector, at any reasonable time, has the authority to inspect the Facility and carry out such duties as defined in the *Clean Air Act*, the *Clean Environment Act* or the *Clean Water Act*.

## E. TERMS AND CONDITIONS

GENERAL CONDITIONS

18. This Facility has been classified as a **Class 1A** source, pursuant to Part V of the *Air Quality Regulation, New Brunswick Regulation 97-133* filed under the *Clean Air Act*. The Approval Holder shall pay the appropriate annual fee **on or before April 1 of each year.**

19. In addition to any requirements under the *Environmental Impact Assessment Regulation - Clean Environment Act*, the Approval Holder shall notify the Minister in writing of any plans to make physical changes or changes to operation of the Facility that would result in a significant change in the characteristics or increased rate of discharge of any emission to the atmosphere. The Approval Holder shall make such application in a form acceptable to the Minister **at least two hundred and forty (240) days** prior to the planned construction or modification of the source.

20. In addition to any requirements under the *Environmental Impact Assessment Regulation - Clean Environment Act*, in the event of Facility closure, the Approval Holder shall notify the Minister **at least six (6) months** prior to such closure and shall, at that time, prepare and submit to the Minister for review an updated site plan and an engineering proposal for the site rehabilitation and closure.

21. The Approval Holder shall immediately notify the Minister in writing of any change in its name or address.

22. The Approval Holder shall conduct performance tests on atmospheric emissions of contaminants or ambient air quality at such times and in such a manner as the Minister may, in writing, require.

23. The Approval Holder shall ensure that all air pollution control equipment, including but not limited to the low NOx burners, the electrostatic precipitators, the flue gas desulphurization units, the wet electrostatic precipitators, the ash collection and reinjection system, and other associated equipment, is functional and in operation at all times during which the Facility is in continuous steady-state operation.

24. The Approval Holder shall ensure that particulate control equipment is in operation whenever the associated boiler is in continuous steady-state operation at or above minimum load. Smoke density of the flue gas at the stack exit, including during soot-blowing and starting of a new fire, shall be consistent with the Smoke Density Standards listed in Sections 13 to 15 of the *Air Quality Regulation* 97-133.

EMISSION LIMITS

25. The Approval Holder shall ensure that the total annual emissions of sulphur dioxide from all stacks at the Facility do not exceed 25,000 tonnes of sulphur dioxide per calendar year.

26. The Approval Holder shall limit the hourly mean rate of release of sulphur dioxide ($SO_2$) from the stack to no more than 258 nanograms per Joule (0.6 lb/MMBTU) of heat input to the boilers, as determined by the 720 hour rolling average, with a target of having no single hourly average greater than 400 nanograms per Joule (0.93 lb/MMBTU) of heat input to the boilers.

27. The Approval Holder shall limit the hourly mean rate of release of nitrogen oxides (NOx), meaning all nitrogen oxides except nitrous oxide and collectively expressed as nitrogen dioxide ($NO_2$), from the stack to no more than 90 nanograms per Joule (0.21 lb/MMBTU) of heat input to the boilers, as determined by the 720 hour rolling average, with a target of having no single hourly average greater than 200 nanograms per Joule (0.46 lb/MMBTU) of heat input to the boilers.

28. The Approval Holder shall limit the mean rate of release of particulate matter from the stack to no greater than 4.3 nanograms per Joule (0.01 lb/MMBTU) of heat input to the boilers, with a target of having the rate of release of particulate matter from any individual flue in the stack no greater than 8.6 nanograms per Joule (0.02 lb/MMBtu) of heat input to the boilers.

EPISODE CONTROL

29. The Approval Holder shall operate the Facility such that the contribution of sulphur dioxide from this source does not cause the concentration of sulphur dioxide in the ambient air over land areas to exceed 450 $\mu g/m^3$ (170 ppb) for an averaging period of 1 hour, 150 $\mu g/m^3$ (57 ppb) for an averaging period of 24 hours, or 30 $\mu g/m^3$ (11 ppb) for an averaging period of 1 year. Atmospheric emission rates that contribute to ground level concentrations greater than those stipulated above shall be reported **immediately** to the Department in accordance with the **Emergency Reporting section** of this Approval.

FUEL QUALITY AND HANDLING

30. The Approval Holder shall ensure that the sulphur content of the No. 6 fuel oil utilized at the Facility does not exceed 3.0% sulphur by weight, without first obtaining written permission of the Minister.

31. The Approval Holder shall ensure that all above-ground fuel storage vessels in excess of 15,000 barrels capacity, at or associated with the Facility, containing or intended to contain fluids having a true vapour pressure greater than 10.3 kilopascals absolute, are equipped with floating roofs, vapour recovery systems, or other vapour control devices in a manner that is consistent with the "Environmental Guidelines for Controlling Emissions of Volatile Organic Compounds from Above Ground Storage Tanks CCME-EPC-87E", published by the Canadian Council of Ministers of the Environment, dated June 1995, and as may be amended from time to time.

32. The Approval Holder shall ensure that all vehicles transporting petroleum coke to the Facility do so in a manner that ensures the petroleum coke remains covered at all times to prevent the release of fugitive dust from the vehicle during transportation.

33. The Approval Holder shall ensure that all storage, handling, processing, conveying and pulverizing of petroleum coke at the Facility is done so within enclosed equipment and/or facilities to prevent the release of fugitive particulate matter.

34. The Approval Holder shall ensure that all petroleum coke brought into the Port of Saint John for use at the Facility is stored and handled within enclosed equipment and/or facilities to prevent the release of fugitive particulate matter.

35. The Approval Holder is approved to load No. 6 Fuel Oil into tanker trucks for shipment off-site for a maximum of 100,000 barrels per year.

36. The Approval Holder shall operate and maintain the No. 6 Fuel Oil loading system as per the most recent version of the *In-Plant Operating Procedure OIPP-278* and the letter demonstrating the structural and operational improvements to the Facility, dated December 5th, 2016.

TESTING AND MONITORING

37. The Approval Holder shall maintain and operate an Ambient Air Quality Monitoring Network consisting of three fixed sulphur dioxide monitors and two fine particulate matter monitors capable of continuous feedback to the facility, and one meteorological tower measuring wind speed, wind direction, solar radiation, temperature and pressure and capable of continuous feedback to the Facility, at locations acceptable to the Minister.

38. The Approval Holder shall ensure that

- all ambient air quality monitors satisfy the requirements of the United States Environmental Protection Agency (EPA) as reference (FRM) or equivalent (FEM) methods for ambient air monitoring when selected for use in the ambient air quality network. (US EPA, Ambient Monitoring Technology Information Center (AMTIC), Air Monitoring Methods, and
- ensure data interoperability, specific deviation or instrumentation settings may be subject to change when tested and approved by Environment Canada and Climate Change (ECCC).

Deviation from AMTIC approved methods shall be approved by the Department.

39. The Approval Holder shall ensure that all ambient air quality monitors must be installed, maintained and operated in accordance with the quality assurance requirements provided by the Department.

40. The Approval Holder shall ensure that all sulphur dioxide monitors must log 5-minute averages, one-hour averages, 24-hour running averages and annual average readings, expressed in parts per billion at standard conditions.

41. The Approval Holder shall ensure that all fine particulate monitors must log, at a minimum, one-hour averages, 24-hour running averages and annual average readings, expressed in micrograms per cubic metre.

42. The Approval Holder shall ensure that all ambient air quality monitors log internal diagnostic data, with continuous feedback to the Facility, unless otherwise approved by the Department.

43. The Approval Holder shall continuously measure the concentrations of sulphur dioxide ($SO_2$) and nitrogen oxides (NOx) in the flue gas from all three units using continuous emission monitoring systems (CEMs) approved by the Minister. The CEMs shall be equipped with a hardcopy recording device or with software to store historical data for later use. Records of such measurements shall include the calculated hourly and 720 hour rolling average emission rate of sulphur dioxide and nitrogen oxides (expressed as nitrogen dioxide) in units of nanograms per Joule of heat input and in kilograms per hour. Records shall be retained for a period of two years and made available quarterly, wherever possible, in an electronic format acceptable to the Minister.

The performance of such CEMs shall be evaluated in accordance with the Environment Canada report "Protocols and Performance Specifications for Continuous Monitoring of Gaseous Emissions from Thermal Power Generation EPS 1/PG/7", as may be revised from time to time, according to the following schedule:

- quarterly by Cylinder Gas Audit; and

- annually by Relative Accuracy Test Audit, should any one unit operate or is expecting to operate at an Annual Capacity Factor of 20% or more.

44. The Approval Holder shall operate, for each unit at the facility, a continuous opacity monitor at a point downstream of the electrostatic precipitators at all times during which the Facility is in continuous operation. Such opacity monitor shall be equipped with hardcopy readout or with software to store historical data for later use and shall be capable of continuous feedback to the control room of the Facility. The opacity monitor shall be consistent with design and operation specifications as outlined in Environment Canada Standard 1-AP-75-2 "Standard Reference Methods for Source Testing: Measurement of Opacity of Emissions from Stationary Sources" and shall be cleaned and calibrated at such a frequency so as to ensure accurate measurement of the opacity of emissions. Records shall be retained for a period of two years and presented to an Inspector upon request.

45. The Approval Holder shall undertake a Source Testing campaign at least once per calendar year on Unit 1, Unit 2 or Unit 3 when a unit is operating or is expecting to operate at an Annual Capacity Factor of 20% or more, to determine the emission rates and concentrations of particulate matter, metals, sulphur dioxide, and nitrogen oxides in the flue gas from the Facility. Methodology shall be equivalent to that described in the following Environment Canada publications, or other methods as may be approved by the Minister:

For Particulate Matter: "Reference Methods for Source Testing: Measurement of Releases of Particulate from Stationary Sources EPS 1/RM/8"

For Metals: "USEPA Method 29 - Determination of Metals Emissions from Stationary Sources"

For Sulphur Dioxide and Nitrogen Oxides: "Reference Method for the Monitoring of Gaseous Emissions from Fossil Fuel-fired Boilers EPS 1/RM/15".

A detailed description of the test methods to be used shall be submitted to the Department for approval at least four (4) weeks in advance of the planned testing dates. A summary of the test results shall be submitted to the Department for review within six (6) weeks of the testing. As a minimum, the summary shall include: the calculated emission rates for each pollutant reported in nanograms per Joule of heat input, in kilograms per hour, and in milligrams per cubic metre at reference conditions of 25°C and 101.3 kPa and corrected to 3% oxygen; pertinent operating data during the testing; detailed readings from the opacity monitors and CEMs for the duration of the test; and other pertinent operating information. For the purposes of these tests, the testing and reporting shall be performed according to Sections 16 to 18 of the *Air Quality Regulation*.

REPORTING

46. In the event that any of the stack emission limits stipulated in conditions 26 and 27 of this Approval are exceeded, as measured by the Facility's continuous emissions monitors, the Approval Holder shall **immediately report** the exceedance in accordance with the **Emergency Reporting section** of this Approval.

47. In the event that any of the maximum permissible ground level concentrations stipulated in the *Air Quality Regulation - Clean Air Act* are exceeded while one or more boilers are in operation, as measured by the Facility's ambient air quality monitoring network, the Approval Holder shall **immediately report** the exceedance in accordance with the **Emergency Reporting section** of this Approval.

48. Unless otherwise stipulated in this Approval, in the event the Approval Holder violates any Term and/or Condition of this Approval and/or violates the *Air Quality Regulation*, the Approval Holder is to **immediately report this violation by email** to the Department's Saint John Regional Office and the Central Office in Fredericton.

    In the event the violation may cause the health or safety of the general public to be at risk and/or significant harm to the environment could or has resulted, the Approval Holder shall follow the Emergency Reporting procedures contained in this Approval.

49. In the event that the flue gas desulphurization (FGD) system is by-passed for any reason, the Approval Holder shall **immediately report** to the Department, **as per condition 48 of this Approval**, any incident where the stack gas opacity, as measured by the Facility's continuous opacity monitoring equipment, exceeds 20% opacity for more than 4 minutes in any rolling 30 minute period, exceeds 40% opacity for more than 3 minutes in any rolling 15 minute period or exceeds 60% opacity at any time.

50. Notwithstanding condition 49 above, in the event that the FGD system is by-passed and there has been visual verification by the Approval Holder that there are no emissions of black smoke at the stack exit then the Approval Holder **is not required** to report an opacity exceedance, as described in condition 49 of this Approval, to the Department.

51. In the event that the FGD system is by-passed and due to weather conditions, such as fog or darkness, it is not possible to visually verify that there are no emissions of black smoke at the stack exit then the Approval Holder **is required** to **immediately report** an opacity exceedance, as described in condition 49 of this Approval, to the Department **using the procedure outlined in condition 48 of this Approval**.

52. In the event that there is an opacity exceedance, as described in condition 49 of this Approval, and the FGD system is in service with all flue gas being directed through the FGD system then the Approval Holder **is not required** to report such an opacity exceedance to the Department.

53. In the event that any of the continuous emission monitors, any of the continuous opacity monitors or any of the ambient air quality monitors are out of service during the operation of any of the units, the Approval Holder shall **report** the incident **by email** to the Department's **Saint John Regional Office and Central Office in Fredericton within one business day**. For the purposes of this Approval, out of service does not include routine maintenance or calibrations performed on the monitoring equipment or loss of communication links between the generating station and any of the ambient air quality monitors.

54. In the event the Approval Holder receives complaints from the public regarding unfavourable environmental impacts associated with the Facility, the Approval Holder shall **report** all complaints received by the end of the **next normal business day via email** to the Department's **Saint John Regional Office and the Central Office in Fredericton.**

55. **Within 90 days of the end of each quarter**, the Approval Holder shall submit for the previous calendar quarter a quarterly report of the time, duration, cause and remedial action taken for any abnormal or upset condition; a summary on the operation of the facility including any period during which the units were not available and any change in the maximum continuous rating; the type and amounts of fuel burned during the quarter and its associated sulphur, ash and asphaltene contents; and all quality assured sulphur dioxide ($SO_2$) and nitrogen oxides (NOx) emissions data from the CEMs, including $SO_2$ for auxiliary heating purposes. Wherever possible, such quarterly reports shall be made electronically using software and formats mutually agreed upon by the Approval Holder and the Department.

56. **By February 15 of each year**, the Approval Holder shall submit an annual report to the Department with respect to the Facility to include, as a minimum, the following information: the type and amounts of each fuel burned; the average sulphur, ash, and asphaltene contents; the heating value of the fuel; and the resulting annual emission rate of particulate matter, sulphur dioxide and nitrogen oxides for the calendar year just ended. Wherever possible, such a report shall be made electronically using software and formats mutually agreed upon by the Approval Holder and the Department.

57. **By June 1, 2020,** the Approval Holder shall submit hourly to the Department, an automated report containing complete hourly data from all ambient air monitoring analyzers and meteorology devices for this Facility for the preceding 24-hour period. The report shall be submitted electronically in a form and format acceptable to the Department, and using procedures and technologies acceptable to the Department.

58. **By March 31 of each year**, the Approval Holder shall submit to the Department, a report containing complete hourly data from all ambient air monitoring analyzers and meteorology devices for this Facility for the preceding calendar year. All data in this report shall be finalized in accordance with quality assurance and quality control procedures provided by the Department. The report shall be submitted electronically in a form and format acceptable to the Department and using procedures and technologies acceptable to the Department.

59. **By March 31 of each year**, the Approval Holder shall submit an annual report to the Department with respect to the Facility to include summary information concerning any violations reported during the year, remedial action taken, the calculated unit annual Capacity Factors, a summary concerning any source testing activities conducted during the year, a summary concerning the operation of the ambient air quality monitoring stations, and a summary concerning the operation of the sulphur dioxide and nitrogen oxides CEMs for the calendar year just ended, including any evaluation of CEM system performance conducted in accordance with the Environment Canada report "Protocols and Performance Specifications for Continuous Monitoring of Gaseous Emissions from Thermal Power Generation EPS 1/PG/7". Wherever possible, such a report shall be made electronically using software and formats mutually agreed upon by the Approval Holder and the Department.

60. **By June 1st of each year**, the Approval Holder shall submit a greenhouse gas emissions report, for the previous calendar year, to the Department by means of the SWIM system. Reporting shall be consistent with Environment Canada's Greenhouse Gas Emissions Reporting Program (GHGRP). Reporting requirements are published annually in the Canada Gazette, Part 1 under the authority of subsection 46(1) of the *Canadian Environmental Protection Act, 1999* (CEPA 1999).

61. **By July 1st of each year**, the Approval Holder shall prepare and submit an Annual Greenhouse Gas Progress Report to the Department for the previous calendar year, in accordance with the Guidelines for Greenhouse Gas Management for Industrial Emitters in New Brunswick.

62. **Within 15 days of the end of each quarter**, the Approval Holder shall submit the volume of No. 6 Fuel Oil shipped off-site in the quarter and the total volume in the calendar year in barrels.

Prepared by: _____

Sheryl Johnstone, P.Eng.

Senior Approvals Engineer, Authorizations