

**Approval for Site-specific Standards Issued
Pursuant to s.35(1) of O. Reg. 419/05**

Approval Number: 7562-C43S6W

Reference Number: 0525C-43P28

Issue Date: April XX, 2022

Expiry Date: April XX, 2032

Site-specific
Standard Issued Ontario Power Generation Inc.
to:

Site Location: Lennox Generating Station, Lots 15 to 22, Concession 1
Town of Greater Napanee, County of Lennox & Addington, Ontario

DEFINITIONS - TERMS

For the purpose of this site-specific standard approval for Nitrogen Oxides, the following definitions apply:

- (1) "Action Plan" means the document entitled "Action Plan", dated July 09, 2021 and an addendum dated February 16, 2022 submitted by the Company as part of its Request.
- (2) "Approval" means this site-specific standard approval (Approval Number 7562-C43S6W), reference number 0525C-43P28 issued April XX, 2022.
- (3) "Company" means Ontario Power Generation (OPG) and includes any successors and assigns in accordance with section 19 of the EPA.
- (4) "Director" means a Director in the Environmental Assessment and Permissions Branch of the Ministry appointed pursuant to section 5 of the EPA for the purpose of section 35 of the Regulation.
- (5) "EPA" means the Environmental Protection Act, R.S.O. 1990, c. E.19, as amended from time to time.
- (6) "Facility" means the Company facility referred to as Lennox Generating Station (Lennox GS) and located at 7263 Highway 33, Bath, Ontario.
- (7) "Ministry" means the Ontario Ministry of the Environment, Conservation and Parks.
- (8) "Ministry Review Report" means the report, dated Feb 16, 2022 that provides a written review by Ministry staff of the Request by the Company for a site-specific standard for Nitrogen Oxides for a 1-hour averaging period.
- (9) "POI" means point of impingement and has the same definition as section 2 of the Regulation.
- (10) "Regulation" means Ontario Regulation 419/05: Air Pollution – Local Air Quality made under the EPA.

- (11) "Request" means the request made under section 32 of the Regulation dated July 09, 2021, and an addendum dated February 16, 2022, and submitted by the Company with respect to the Nitrogen Oxides 1-hour averaging period standard listed in Schedule 3 of the Regulation and includes,
- i. the request document signed by John Hefford;
 - ii. an Emission Summary and Dispersion Modelling Report;
 - iii. a Technology Benchmarking Report;
 - iv. a Public Consultation Summary Report summarizing the reason for not holding a public meeting; and,
 - v. the Action Plan.
- (12) "Nitrogen Oxides" means the contaminant identified by the Chemical Abstract System Number 10102-44-0.

GROUNDINGS FOR APPROVAL

In accordance with section 35 of the Regulation,

A. I, the Director, am satisfied that:

1. The Request is consistent with subsection 32(1), paragraph 7 of the Regulation.
2. The requirements of section 32 of the Regulation have been met.
3. The Request satisfies the requirements of section 33 and other relevant portions of the Regulation.
4. The notification and holding of a public meeting and follow-up to the public meeting by the Company met the requirements under Section 34 of the Regulation.

B. Based on the above conclusions and the information that I have reviewed, including the Request, the Ministry Review Report, the Facility description in the Request and various interactions with the Company, I am of the opinion that:

1. The Company cannot comply with section 20 of the Regulation with respect to the Nitrogen Oxides standard of 400 micrograms per cubic metre over a 1-hour averaging period in Schedule 3 of the Regulation because it is not technically feasible for the Company to comply.
2. The site-specific standard for Nitrogen Oxides, set out in Table 1 below, is the minimum difference necessary to enable the Company to comply with section 20 of the Regulation.
3. The conditions imposed and the end date for the Approval are appropriate having considered the following:
 - a. The nature of Nitrogen Oxides;
 - b. The frequency with which the inability to comply with section 20 referred to in sub

clause 35 (1)(b)(i) of the Regulation would occur; and,
 c. Whether there are any acute effects associated with Nitrogen Oxides.

4. There is no public interest reason sufficient to require denial of the Request.
5. Compliance with this Approval will result in improvements to reduce discharges to air.

C. The Company was provided a draft copy of the Approval on February 17, 2022 and was provided an opportunity to make written submissions to the Director during the period that ended 30 days after the draft was given.

SITE-SPECIFIC STANDARD APPROVED

Pursuant to s.35 (1), (4), (4.1) and (5) of the Regulation, with respect to discharges from the Facility, references in the Regulation to a standard set out in Schedule 3 for Nitrogen Oxides shall be deemed to be references to the site-specific standard set out in Table 1 for the averaging period set out in Table 1.

The standard with a 24-hour averaging period for Nitrogen Oxides set out in Schedule 3 of the Regulation remains applicable to the discharges from the Facility.

Table 1: Site-Specific Standard for the Facility

Contaminant	Contaminant Chemical Abstracts Service No.	Applicable Time Period	Site-specific Standard (µg/m ³)	Site-specific Standard Averaging Period
Nitrogen Oxides	10102-44-0	From the Date of this Approval to April 30, 2032	839	1-hour

CONDITIONS

You are hereby notified that this Approval is issued to you subject to the conditions outlined below pursuant to subsection 35 (6) of the Regulation. Please note that subsection 35 (7) of the Regulation states that the approved site-specific standard for Nitrogen Oxides for the 1-hour averaging period applies only if the following conditions are complied with.

1. Condition 1: Reasonable Effort to Use Natural Gas

The Company shall make reasonable effort to procure natural gas to generate electricity subject to availability and cost.

REASONS FOR CONDITIONS

Condition 1: Reasonable Effort to Use Natural Gas

Condition No. 1 is included so that the Facility makes reasonable effort to procure natural

gas to generate electricity subject to availability and cost.

EXPIRY

In accordance with subsection 35 (9) of the Regulation, this Approval shall expire on April XX, 2032 after which the standard set out in Schedule 3 to the Regulation for the 1-hour averaging period will apply to discharges of Nitrogen Oxides from the Facility.

The above noted Request is approved under Section 35 of the Regulation.

This Approval is issued this XXth day of April 2022.

"Originally signed by"

XXXXXXXXXX

Director, Section 35, O. Reg. 419/05
Environmental Assessment and Permissions Branch