



O. Reg. 88/22: Air Pollution – Discharge of Sulphur Dioxide from Petroleum Facilities

Section 35 Annual Report –2023

Nanticoke Refinery, Imperial Oil

March 28, 2024

This annual report, which covers the January to December 2023 reporting period for the Imperial Oil Nanticoke Refinery, was prepared in accordance with section 35 of O. Reg 88/22. Imperial Oil is making this report available to the public in accordance with subsection 41(1) paragraph 2 of O. Reg 88/22.

The information required as per subsection 35(1) of O. Reg 88/22, with the exception of those items not applicable to the Imperial Oil Nanticoke Refinery, is provided below.

1. *The average, maximum and minimum hourly mass emission rate of,*
 - i. *Sulphur dioxide discharged into the air from the sources of contaminant mentioned in paragraphs 1 and 5 of subsection 22 (1) during the calendar year*

The continuous monitoring required by O. Reg 88/22 to determine the average, maximum and minimum hourly mass emission rate of sulphur dioxide discharged into the air from the sources of contaminant mentioned in paragraphs 1 and 5 of subsection 22(1) during the calendar year was not required to be implemented in 2023.

2. *The total amount, in kilograms, of*
 - i. *Sulphur dioxide discharged into the air from the sources of contaminant mentioned in paragraphs 1 and 5 of subsection 22 (1) during the calendar year.*

The continuous monitoring required by O. Reg 88/22 to determine the total amount, in kilograms, of sulphur dioxide discharged into the air from the sources of contaminant mentioned in paragraphs 1 and 5 of subsection 22(1) during the calendar year was not required to be implemented in 2023.

3. *The total amount of sulphur dioxide, in tonnes, discharged from the facility during the calendar year as required to be calculated under clause 26(2)(b) in respect of the fourth quarter of the calendar year if applicable.*

Clause 26(2)(b) is not yet applicable.

4. *A summary of the information in any reports submitted under section 32 during the calendar year.*

Section 32 is not yet applicable.

5. *An assessment of the effectiveness of any measures identified under subparagraph 6 iii of section 32 that were implemented during the calendar year.*

Section 32 is not yet applicable.

6. *Any actions taken during the calendar year to minimize, prevent or reduce the discharge of sulphur dioxide from the facility, including any actions identified in the plan required under section 36.*

To reduce the discharge of sulphur dioxide from the Nanticoke Refinery, Imperial Oil continued to add a sulphur dioxide reducing additive to the fluidized catalytic cracker in accordance with O. Reg 530/18 *Air Pollution – Discharge of Sulphur Dioxide from Petroleum Facilities Before 2029*.

The section 36 plan was not required in 2023.