



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

Sarnia Complex, Imperial Oil

O.Reg. 88/22 s.35(1) – 2025 Annual Report

March 31, 2026

Introduction

This annual report, which covers the January to December 2025 reporting period for the Imperial Oil, Sarnia Complex, 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.

As per subsection 35(1) of O. Reg 88/22 the following information is required to be included in this report. Information that is not applicable to the Imperial Oil, Sarnia Complex has been excluded from this report.

s35(1)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 average, maximum and minimum mass emission rate of SO₂ for those sources with continuous emission monitoring systems (CEMS) operating in accordance with O. Reg. 88/22 requirements in 2025 are provided in Table 1.1.

Table 1.1: Average, maximum and minimum hourly mass emission rate of SO₂ in 2025.

Source	Average SO ₂ (kg/hr)	Maximum SO ₂ (kg/hr)	Minimum SO ₂ (kg/hr)
Conversion Flare (commissioned on 06/30/2025)	33	3036	0
FCIS Flare (commissioned on 06/30/2025)	95	1770	6
CCIS Flare (commissioned on 06/30/2025)	2	292	0
Distribution Fuel Gas Header (commissioned on 02/28/2025)	1	304	0
F-3300 (commissioned on 12/18/2025)	2	104	1

The continuous emission monitoring system 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 FCC and COB/CCIS were not commissioned in 2025 per Order No. 1-541573281.

s35(1)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 total amount, in kilograms, of SO₂ discharged into the air from those sources with continuous emissions monitoring system operating in accordance with O. Reg. 88/22 requirements in 2025 are provided in Table 2.1.

Table 2.1: Total amount of SO₂ in 2025.

Source	Total SO₂ (kg)
Conversion Flare (commissioned on 06/30/2025)	133677
FCIS Flare (commissioned on 06/30/2025)	393120
CCIS Flare (commissioned on 06/30/2025)	6107
Distribution Fuel Gas Header (commissioned on 02/28/2025)	7384
F-3300 (commissioned on 12/18/2025)	825

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 FCC and COB/CCIS were not commissioned in 2025 per Order No. 1-541573281.

s35(1)4: *A summary of the information in any reports submitted under section 32 during the calendar year.*

Section 32 is not yet applicable.

s35(1)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.

s35(1)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 Sarnia Complex, 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*.