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Amendments to COMAR 26.11.40 -NO_x Ozone Season Emission Caps for Non- trading Large NO_x Units



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Air Quality Control Advisory Council Meeting Materials

- Welcome to today's meeting!
- This meeting is being **Recorded**. The webinar recording, presentations and related resources will be made available on the Air Quality Control Advisory Council web page:

<https://mde.maryland.gov/programs/workwithmde/Pages/AQCACmeetingminutes.aspx>



Outline

- Background Information
- Sources affected & location
- Requirements
- NOx ozone season emissions



Image by Jessica Scrimgeour



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Purpose

The purpose of this action is to propose amendments to **Regulations .02 - .03 under Chapter COMAR 26.11.40 - NO_x Ozone Season Emission Caps for Non-trading Large NO_x Units** to update certain facilities ozone season emission caps and update a reference to the EPA's Cross State Air Pollution Rule (CSAPR) NO_x trading program



Background

- In 1998, EPA promulgated the NOx Budget Trading Program (NBP) as a central component of the broader NOx SIP Call. The NOx SIP Call was designed to mitigate significant transport of NOx in the eastern United States during the warm summer months, referred to as the ozone season, when ground-level ozone concentrations are highest
- In 2018, the Department reviewed State sources that could be subject to the Non-trading large unit requirements of the NOx SIP Call and created a new COMAR chapter 26.11.40 to address facilities that fall under the Non-trading large NOx unit requirements of the NOx SIP Call. Four affected sources, including the Luke Paper Mill, were allocated an NOx ozone season emissions cap and the remainder of the budget was applied to a new unit set aside for future sources
- In 2020, the affected source Luke Paper Mill, VERSO Corporation, located in Luke, Maryland: Units No. 24, 25 and 26 shut down. Therefore, the Department proposes to re-allocate NOx ozone season tonnage caps by removing the Luke Paper Mill



Sources Affected & Location

- The regulation is applicable throughout the entire State
- Affected sources and Units:
 - American Sugar Refining (Domino Sugar), located in Baltimore, Maryland: Unit No. C6;
 - Cove Point LNG Terminal, Berkshire Hathaway Energy (was Dominion Energy), located in Lusby, Maryland: Units No. Frame 5-1 (Turbine S009), Frame 5-2 (Turbine S010), Frame 7-A, Frame 7-B, Aux A and Aux B;
 - National Institutes of Health, Located in Bethesda, Maryland: Unit 1156; and
 - A person who owns or operates a new unit subject to this Chapter



Requirements

- COMAR 26.11.40.03 identifies the existing sources and gives each source a NOx emission tonnage cap so that the entire State does not exceed 1,013 tons
 - Each affected unit or group of units at an affected source is required to limit their ozone season NOx emissions to meet or be under the NOx ozone season tonnage cap
- The proposed amendments remove one source and revises the new unit set aside. The remaining affected facilities will not see a change in their cap
- Should a new source with a Non-trading large unit wish to open in Maryland, there will be 752 tons of NOx available from the new unit set aside



Amendments

- The Department will revise the existing table (revised version shown below) to remove the Luke Paper Mill and their 656 tons and add the 656 tons to the New Unit Set Aside for the NO_x ozone season tonnage cap

<i>Affected Sources</i>	<i>NO_x Ozone Season Emission Caps</i>
<i>Cove Point LNG</i>	<i>214 tons</i>
<i>National Institute of Health</i>	<i>23 tons</i>
<i>American Sugar</i>	<i>24 tons</i>
<i>New Unit Set Aside</i>	<i>752 tons</i>
<i>Total</i>	<i>1013 tons</i>

- Amend Regulation .02A. To point to the federal trading program:
- To read as follows: The owner or operator of a Non-trading large NO_x unit, that is not a unit subject to **a federal trading program for ozone season emissions of NO_x established under 40 CFR Part 97 to address interstate transport of ozone and NO_x in accordance with 40 CFR 52.38(b)**, or a state trading program for ozone season emissions of NO_x approved by the EPA Administrator as meeting the requirements of 40 CFR 52.38(b), shall comply with the ozone season NO_x emission limitation, monitoring, record keeping, and reporting requirements for ozone season emissions of NO_x set forth in this chapter.

BHE GT&S Cove Point

- The following data was taken from EPA CAMD specifically during the ozone season – May through September – on the units affected by 26.11.40 in tons per year (tpy)
- Affected units include: Frame 5-1, Frame 5-2, Frame 7-A, Frame 7-B, Aux A, and Aux B

Ozone Season NO_x Emissions

Emission Cap	Year	2018	2019	2020	2021	2022
214 tons	NO _x (tpy)	40.6	32.9	36.9	35.1	36.9



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American Sugar Refining, Inc.

- The following data was taken from EPA CAMD specifically during the ozone season – May through September – on the units affected by 26.11.40 in tons per year (tpy)
- Unit C6 is the only affected unit

Ozone Season NO_x Emissions

Emission Cap	Year	2018	2019	2020	2021	2022
24 tons	NO_x (tpy)	0.9	3.2	6.9	4.2	8.6



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National Institutes of Health

- The following data was taken from EPA CAMD specifically during the ozone season – May through September – on the units affected by 26.11.40 in tons per year (tpy)
- Unit 5-1156 is the only affected unit

Ozone Season NO_x Emissions

Emission Cap	Year	2018	2019	2020	2021	2022
23 tons	NO_x (tpy)	19.0	19.2	19.0	4.9	7.2



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Discussion



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