

# Policy: NOx and CO RACT Levels for Thermal Oxidizers

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**NOx and CO RACT Levels Policy**

The following are the required RACT levels for thermal oxidizers:

Pollutant	ppm <sub>v</sub> @ 15% O <sub>2</sub>	lb/MMBTU
NOx	50	0.20
CO	350	0.8

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**Source Testing Requirements Policy**

The following are source testing requirements for thermal oxidizers:

- A thermal oxidizer with a firing rate of 7.5 MMBTU/hr or greater requires an initial source test to verify compliance with the RACT level.
- The requirements for a thermal oxidizer with a firing rate less than 7.5 MMBTU/hr are as follows:

If Vendor's NOx and CO emissions guarantee and/or specifications ...	Then ...
do not exceed RACT levels	Stop. No source testing is required.
exceed RACT levels	Require source testing to verify compliance with RACT levels.

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**Effective date**

April 13, 1999

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**Rationale**

The requirement to apply RACT to secondary pollutants from thermal oxidizers is contained in [Regulation 2-2-112](#).

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**Background**

The recommended RACT control levels are based on 17 of the District's source tests on thermal oxidizers conducted by the District's Source Test Section between 10/31/1997 and 07/08/1998.

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# Policy: NOx and CO RACT Levels for Thermal Oxidizers, Continued

## Helpful Definitions

- **RACT** – Reasonable Achievable Control Technology, as defined in [Regulation 2-2-243](#).
- **NOx** – Nitrogen Oxides are compounds of nitric oxide (NO), nitrogen dioxide (NO<sub>2</sub>), and other oxides of nitrogen, which are typically created during combustion processes.
- **CO** – Carbon Monoxide is a colorless, odorless gas resulting from the incomplete combustion of hydrocarbon fuels.
- **Thermal Oxidizer** – abatement device used to oxidize gaseous streams of pollutants.

## Contact

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## Document Control

Version	Revised By	Description	Date
1.1	BGY	New Policy	4/13/99
1.2	MCL	Mapping of Policy	3/13/08

## Approval

Name & Title	Signature	Date
Brian Bateman, Director of Engineering	Signed by Brian Bateman	2/28/2008

RESCINDED  
October 14, 2025