

Policy: NOx and CO RACT Levels for Thermal Oxidizers

NOx and CO RACT Levels Policy

The following are the required RACT levels for thermal oxidizers:

Pollutant	ppm _v @ 15% O ₂	lb/MMBTU
NOx	50	0.20
CO	350	0.8

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.

Effective date

April 13, 1999

Rationale

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

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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Helpful Definitions

- **RACT** – Reasonable Achievable Control Technology, as defined in [Regulation 2-2-243](#).
 - **NO_x** – Nitrogen Oxides are compounds of nitric oxide (NO), nitrogen dioxide (NO₂), 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.
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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
