



Connecticut Department of
Energy & Environmental Protection
Bureau of Air Management
Engineering & Enforcement Division

An Environmental Permitting Fact Sheet

Air Emissions – Incinerators Constructed on or after June 1, 2009

Program Overview	Section 22a-174-3a(1)(G) of the Regulations of Connecticut State Agencies (RCSA) requires the owner or operator of an incinerator with an original construction date on or after June 1, 2009 to obtain a new source review air permit before beginning construction except if such incinerator is used for the primary purpose of reducing, controlling or eliminating air pollution or as a solid waste incinerator unit subject to an emission guideline issued pursuant to Section 129 of the Clean Air Act. Once a permit is issued, the incinerator must be constructed and operated according to permit conditions.
Authorizing Statutes	Section 22a-174 of the Connecticut General Statutes (CGS) Federal Clean Air Act (42 U.S.C., Sec. 7401 <i>et. seq.</i>)
Regulations	Sections 22a-174-3a, 22a-174-18, 22a-174-23, and 22a-174-29 of the Regulations of Connecticut State Agencies (RCSA)
Effective Date	June 12, 2009
Who Must Apply	<p>Any incinerator with an original construction date on or after June 1, 2009 must be permitted unless exempt under RCSA Section 22a-174-3a(1)(G). Human and animal crematories and burn-off ovens are considered incinerators under RCSA section 22a-174-3a. Units that combust mainly used oil or are primarily used for the control of air pollutants are not considered incinerators.</p> <p>The owner of a solid waste incinerator subject to an emission guideline under Section 129 of the Clean Air Act is not required to apply for and obtain a permit pursuant to RCSA section 22a-174-3a(1)(G) unless permitting is required pursuant to RCSA section 22a-174-3a(1)(A) through (F).</p> <p>The owner of an incinerator with an original construction date on or after June 1, 2009 that is modified must apply for a permit modification or revision in accordance with RCSA section 22a-174-2a.</p> <p>The owner of an incinerator with an original construction date prior to June 1,</p>

2009 that is modified must apply for and obtain a permit only if it triggers applicability pursuant to RCSA section 22a-174-3a(1)(A) through (F).

Required Documents

The owner or operator of an incinerator or modification of an incinerator subject to the provisions of RCSA Section 22a-174-3a shall apply for a permit on forms prescribed by the commissioner.

The permit application package shall include:

- The *Permit Application for Stationary Sources of Air Pollution – New Source Review* (DEEP-NSR-APP-200) and all applicable supporting documents;
- The supplemental NSR form *Incinerators or Landfill Flares* (DEEP-NSR-APP-203); and
- The *Permit Application Fee*.

Application Average Processing Time

For this permit program, processing time for a typical application, based upon recent experience is less than 180 days. Past performance is not a guarantee of future processing timeframes. In order to increase the efficiency of application processing, we recommend that you utilize the Bureau of Air Management's [Pre-Application and Application Review Meetings](#) process, assure that your application package is properly completed at the time of submittal, and that you promptly reply to any requests for information.

See [Air Emissions – New Source Review Program](#) for additional information on the New Source Review permitting process.

Incinerator Emission Limits

Particulate matter emission must not exceed:

- 0.08 grains per standard cubic foot of flue gas corrected to 12% CO₂ and averaged over a two hour period , or
- 0.18 grams per cubic meter of flue gas corrected to 12% CO₂ and averaged over a two hour period.

Unburned waste or ash particulate emissions individually discernible by the human eye (measured by 40 CFR Part 60, Appendix A, Reference Method 22) are not allowed.

Visible emissions from the stack must not exceed 20% during any six-minute block average, or 40% during any one-minute block average. For any incinerator without opacity continuous emissions monitoring equipment, opacity is measured by visual observation according to 40 CFR Part 60, Appendix A, Reference Method 9.

The maximum allowable stack concentration for any hazardous air pollutant listed in RCSA section 22a-174-29 must not be exceeded.

Incinerator facilities must not emit any substance that creates or contributes to a nuisance odor pursuant to the requirements of RCSA section 22a-174-23.

Incinerator Operating Requirements

Operation and maintenance of the incinerator must be conducted in accordance with the manufacturer's recommendations or, if the manufacturer's recommendations cannot be obtained, in accordance with best management practices.

The unit may burn only materials specified in a valid operating permit issued by the commissioner. Other material (e.g., paper or contraband) may not be charged to the unit without prior written approval of the commissioner.

Only personnel who have been trained in the incinerator's proper operation and maintenance may operate the unit.

Written operating instructions must be kept and be readily accessible in the control area of the incinerator at all times and be made available to the commissioner for inspection on request.

Useful Resources

[Air Management Regulations of Connecticut State Agencies](#)

[Air Emissions - New Source Review Fact Sheet](#)

[Connecticut General Statutes](#) (CGS)

[Code of Federal Regulations](#) (CFR)

[Clean Air Act](#) (CAA)

Contact Information

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This overview is designed to answer general questions and provide basic information. You should refer to the appropriate statutes and regulations for the specific regulatory language of the different permit programs. This document should not be relied upon to determine whether or not an environmental permit is required. It is your responsibility to obtain and comply with all required permits.

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[Users Guide to Environmental Permits](#)