Outdoor Wood Boilers

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Overview

✓ How do OWBs work?
✓ State Law
✓ EPA Qualified Units
✓ Examples
✓ NH DES & Municipal Authority
✓ Resources
How do OWBs work?
How do OWBs work? (cont.)

Source: Hearth, Patio and Barbecue Association (HPBA)
State Law - Chapter 125-R

 Became effective August 10, 2008

 Establishes requirements for:

» Sale and purchase
» Installation
» Permitted fuel
» DES authority
» Municipal authority
Sale and Purchase:

- August 10, 2008 to December 31, 2008
  *Non-Phase I or II units*

- January 1, 2009 to March 31, 2010
  *Phase I or II Units*

- April 1, 2010
  *Phase II Units*
What about a unit installed prior to August 10, 2008?

“Grandfathered”
What is an EPA Qualified Unit?

Units are qualified based on emission rates (particulate matter)

Unit Types:
- Non-Phase I or II (not rated)
- Phase I (no more than 0.6 lbs/MMBtu, heat input)
- Phase II (no more than 0.32 lbs/MMBtu, heat output)

Qualification:
- Unit is tested by an independent laboratory
- Test report approved by EPA
Phase I Unit Emission Standard

Phase I: Orange Tag
- No more than 0.60 lb/MMbtu heat input (particulate matter) emission limit
Phase II Unit Emission Standard

Phase II: White Tag
- No more than 0.32 lb/MMbtu heat output (particulate matter) emission limit
Installation Requirements

RSA 125-R:3 Setback and Stack Height Requirements

Based on unit type

Source: CT Department of Energy and Environmental Protection
Phase II Unit - Installation

Residence served by wood boiler

Residence not served by wood boiler

No chimney height requirement

No set-back to business or residence

50 feet

Nearest Property Line

HPBA
Hearth, Patio & Barbecue Association
Non Phase I or II Unit - Installation

- Set Back 200 feet to nearest business or residence
- Chimney height 2 feet
- Residence served by wood boiler
- Residence not served by wood boiler

(300 ft from nearest residence)
Set-Back 200 feet to nearest business or residence

Property Line
Permitted Fuels

**RSA 125-R:4 Permitted Fuels**

- Clean wood
- Wood pellets made from clean wood
- Home heating oil, natural gas or propane used:
  - For supplemental fuel (dual fuel units)
  - As a fire starter

No painted or treated wood, plywood or household trash
Permitted Fuels
Examples
Observations
Observations
Smoke Inversion
DES’s Authority

RSA 125-R:6 Enforcement

Provides DES with the authority to regulate:

- **Installation:**
  - Setbacks
  - Stack height

- Permitted fuels
Municipal Authority

**RSA 125-R:7 Municipal Authority**

- Provides that under RSA 147, if an OWB is operated in a manner which causes a nuisance or is injurious to public health, the local health officer may order that the use of the OWB be discontinued.

- Provides that the municipality can adopt and enforce land-use ordinances with regard to installation and operation of OWB.

**Note:** DES will provide technical assistance to the municipality for the purpose of enforcing the nuisance provisions in RSA 147.
NH Resources

NH RSA 125-R


DES Web Page


Fact Sheet: ARD-40

EPA Resources

EPA’ Web Site:

www.epa.gov/burnwise/index.html

www.epa.gov/burnwise/owhhlist.html
For Technical Assistance and Complaints

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