



BAY AREA
AIR QUALITY
MANAGEMENT
DISTRICT

Regulation 6, Rule 3: Wood Burning Devices

Proposed Rule Amendments

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Workshop Agenda

- **Wood Smoke in the Bay Area**
- **Regulation 6, Rule 3: Wood Burning Devices**
- **Air District Proposals**
- **Comments and Suggestions**





Wood Smoke in the Bay Area

- Wood smoke is the major source of air pollution in the Bay Area in the wintertime
~ 1.4 million fireplaces and wood stoves
- Wood burning generates fine particulate matter (PM 2.5) and carcinogenic substances that make the air harmful to breathe
- Local and regional air quality concerns





Winter Spare the Air Alerts

- Designates when there is unhealthy air in the Bay Area
 - November – February
- When a Winter Spare the Air Alert is issued, it is illegal to burn wood unless you are “exempt” from the Rule
- Check for a Winter Spare the Air Alert:
 - 1-877-4NO-BURN
 - www.sparetheair.org
 - www.baaqmd.gov



It's Your Air,
Protect It.



Regulation 6, Rule 3: Wood Burning Devices



- Limit emissions of particulate matter (PM) and visible emissions from wood burning devices
- Reduce local and regional fine particulate emissions



Amending Regulation 6, Rule 3

- Update and clarify requirements of the Rule
 - *Exemptions*
 - *Definitions*
 - *Standards*
 - *Administrative Requirements*

- Adopt new EPA emissions standards for new wood heaters

- Incorporate improved wood heater technologies and promote cleaner and more efficient devices to reduce wood smoke



Exemptions

Exempt

The use of a wood burning device is allowed during a Winter Spare the Air Alert, if you meet a set of conditions or criteria

Not Exempt

No wood burning allowed during a Winter Spare the Air Alert
(No burning wood, manufactured fire logs, pellets or any other solid fuels in fireplaces, wood stoves or outdoor fire pits)



Proposed Reg 6-3 Exemptions

Sole Source of Heat Exemption

- Only Source of Heat
- Non-Functional, Permanently Installed Heating Device
- Loss of Electric Power and/or Natural Gas





Exemption - Only Source of Heat

**YOU
ARE
EXEMPT**

**Effective
November 1, 2016**

**YOU HAVE NO
ALTERNATE FORM OF HEAT**

**YOUR WOOD BURNING DEVICE
IS EPA CERTIFIED**

**YOUR EPA CERTIFIED DEVICE
IS REGISTERED
WITH THE DISTRICT**



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Exemption - Non-Functional, Permanently Installed Heater

**YOU
RECEIVE A
TEMPORARY
EXEMPTION**

**Effective
November 1, 2015**

**YOUR HEATER IS NON-
FUNCTIONAL AND NEEDS
REPAIR**

**YOU HAVE NO
ALTERNATE FORM OF HEAT**

**YOU REPAIR YOUR HEATER WITHIN 30
DAYS AND YOU SUBMIT REPAIR
DOCUMENTATION WITHIN 10 DAYS OF
COMPLETION TO THE DISTRICT**



Exemption - Utility Service Outage

**YOU
RECEIVE A
TEMPORARY
EXEMPTION**

**Effective
November 1, 2015**

**YOU HAVE NO GAS AND/OR
ELECTRIC SERVICE**

**THE SERVICE OUTAGE IS
VERIFIABLE BY YOUR LOCAL
UTILITY SERVICE PROVIDER**



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Definitions



Reg 6-3 Definitions

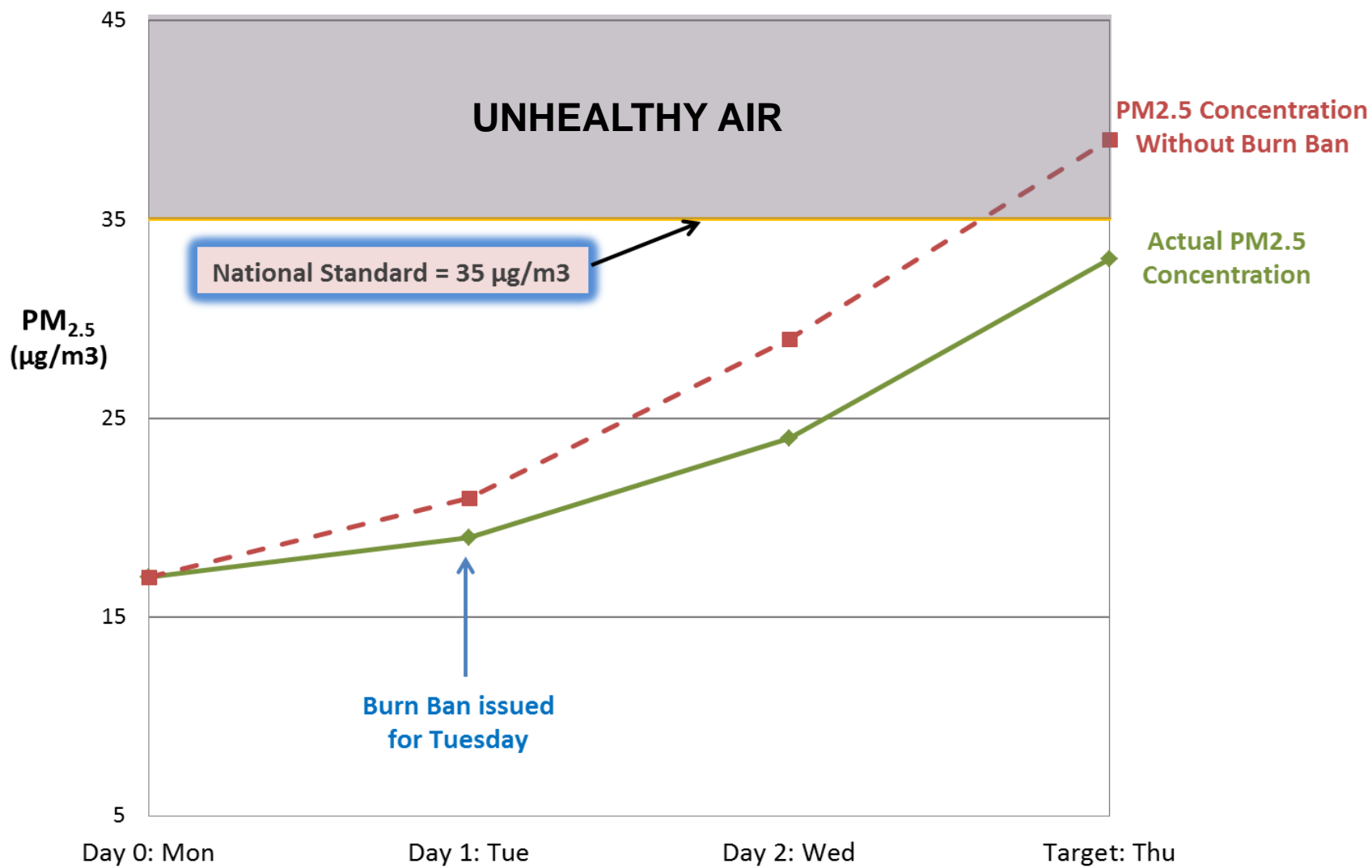


Proposed Change:

- “Curtailment Period” to “**Mandatory Burn Ban**”
- Declare a Winter Spare the Air Alert 2-3 days sooner to prevent an exceedance of the federal health standard
- 4 to 5 more Winter Spare the Air Alerts estimated



Projection of 3-Day PM_{2.5} Concentration With and Without Burn Ban





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Standards



Proposed Reg 6-3 Standards

Sales and Manufacturing of New Wood Heaters

Real Estate Requirements

- Sale or Transfer of Real Property
- Fireplace and Chimney Remodels
- Commercial and Residential Rental Property
- New Building Construction

Visible Emissions Limitation



Sales and Manufacturing of New Wood Heaters

- EPA revised New Source Performance Standards (NSPS) for new wood heaters
- New standard affects manufacturers and retailers
- Wood heaters that do not comply with the new emission standards can no longer be sold after December 1, 2015



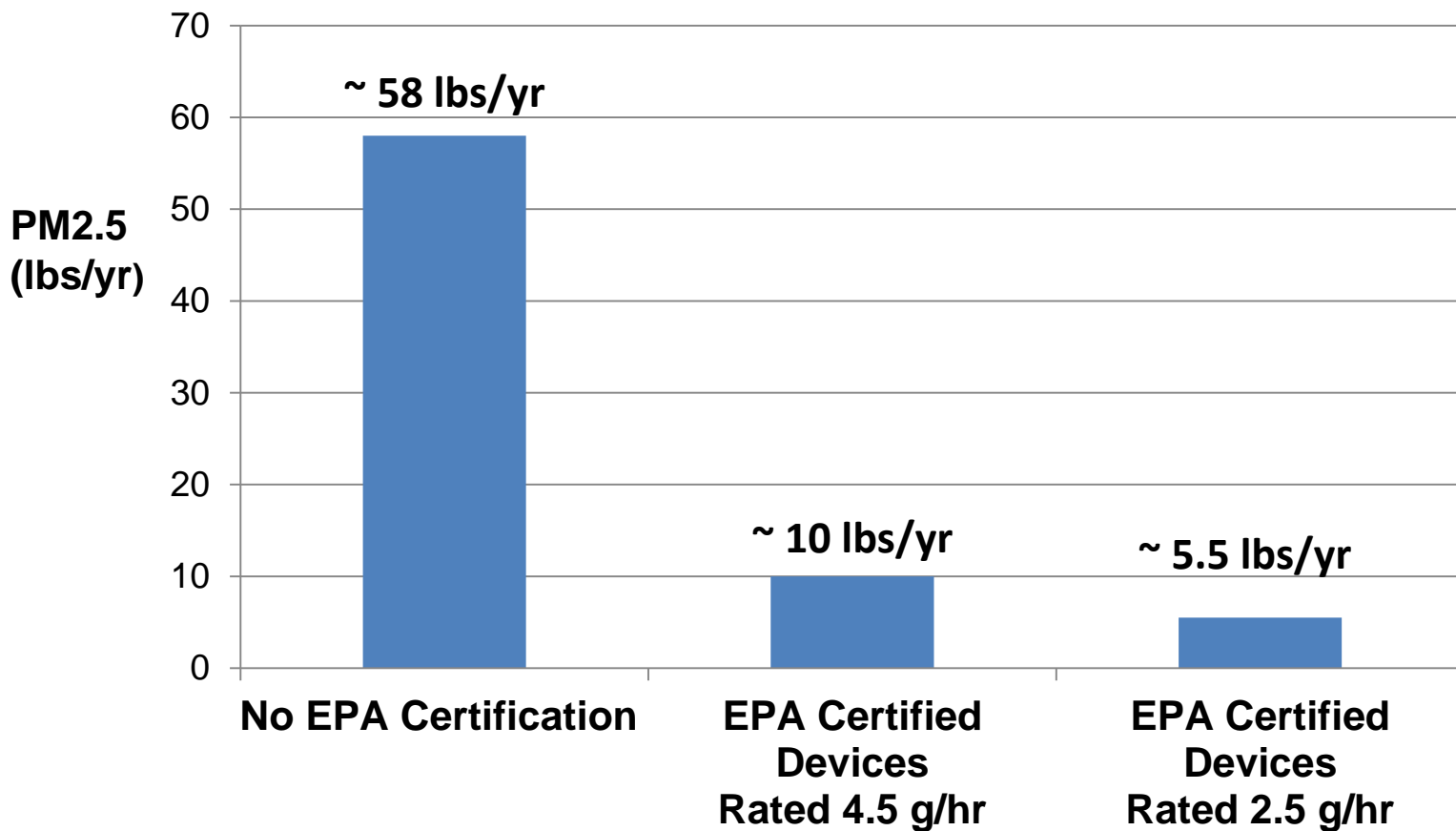
New EPA New Source Performance Standards (NSPS) (finalized 2/3/2015)

<i>Tier</i>	<i>Emissions Rating</i>	<i>Compliance Dates</i>
1	4.5 g/hr	May 15, 2015
2	2.0 g/hr	May 15, 2020
	2.5 g/hr	

*Wood heaters rated 4.6 g/hr – 7.5 g/hr can no longer be sold after December 1, 2015



PM2.5 Emissions from Uncertified vs. Certified Devices





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Relative Emissions of Fine Particles



Woodburning
Fireplace

Uncertified
Woodstove

EPA
Certified
Woodstove

Pellet
Stove

Gas
Furnace
or Stove

Electric
Heat



Other Clean Alternatives For Your Home

- Gas-Fueled Devices
- Electric Devices





Proposed Reg 6-3 Standards

Real Estate Requirements

- Sale or Transfer of Real Property
- Fireplace and Chimney Remodels
- Commercial and Residential Rental Property
- New Building Construction



Sale or Transfer of Real Property

**ALL SALES
OR
TRANSFERS
OF REAL
PROPERTY**

**Effective
November 1, 2016**

**REPLACE YOUR UNCERTIFIED
WOOD BURNING DEVICE WITH
ONE OF THE FOLLOWING
DEVICES:**

***GAS-FUELED,
ELECTRIC, OR
EPA CERTIFIED DEVICE***

* May decommission or render inoperable



Fireplace or Chimney Remodels

**IF YOU
REMODEL
YOUR
CHIMNEY OR
FIREPLACE**
Effective
November 1, 2015

REPLACE YOUR UNCERTIFIED
WOOD BURNING DEVICE WITH
ONE OF THE FOLLOWING
DEVICES:

*GAS-FUELED,
ELECTRIC, OR
EPA CERTIFIED DEVICE*

*Requirement is triggered by a fireplace or chimney remodel that requires a local building permit.



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Commercial and Residential Rental Property

**ALL
COMMERCIAL
AND
RESIDENTIAL
RENTAL
PROPERTY**

**Effective
November 1, 2016**

**MUST HAVE AN ALTERNATE
FORM OF HEAT THAT DOES NOT
BURN WOOD**

**REPLACE AN UNCERTIFIED
WOOD BURNING DEVICE WITH
ONE OF THE FOLLOWING
DEVICES:**

***GAS-FUELED,
ELECTRIC, OR
EPA CERTIFIED DEVICE***

* May decommission or render inoperable



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New Building Construction

**ALL NEW
BUILDING
CONSTRUCTION**

**Effective
November 1, 2015**

**NEW BUILDING CONSTRUCTION
MAY ONLY INSTALL:**

GAS-FUELED

OR

ELECTRIC DEVICES

ONLY



Visible Emissions Limitation

Proposed Standard

- No visible emissions of greater than 20% opacity and **totaling to 3 minutes in any hour**
- 20 minute start-up allowance for new fires; not to be exceeded in any consecutive 4 hour period





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Administrative Requirement



Proposed Administrative Requirement

Registration Program

All residential dwellings that claim “Only Source of Heat” exemption must register their EPA certified device.

- Type of Device
- Manufacturer’s Name
- Model #
- Device certification date

Proposed Effective Date: November 1, 2016



Comments and Suggestions

Send comments by Friday, May 8, 2015

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