

Wood Smoke Reduction Strategy: Proposed Amendments to Regulation 6, Rule 3: Wood Burning Devices &

Heating Device Upgrade

Incentive Program

Board of Directors Update September 2, 2015



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Regulation 6, Rule 3 Update



- > Rule Amendment Timeline
- > Wood Smoke Reduction Strategies
- > Estimated PM2.5 Emission Reductions
- ➤ Summary of Proposed Amendments
- ➤ Incentive Program Overview
- Request Authorization for a Transfer of \$3 million

Regulation 6, Rule 3 Rule Amendment Timeline

Draft Rule and Hearing Staff Interim **Package** Report **Board Public** and **Public** Hearing **Board** Comment 30-day and Rule Workshops **Update Period Public Adoption** Comment (2 weeks) **Period** Incentive **Program MARCH APRIL MAY JUNE JULY SEPTEMBER OCTOBER AUGUST**

Regulation 6, Rule 3 Wood Smoke Reduction Strategies

Regional Air Quality Wood Smoke Reduction Strategies and Climate Impacts

Local Air Quality

Regulation 6, Rule 3 Estimated PM_{2.5} Emission Reductions

PM_{2.5} emissions reduced since 2008 rule adoption:

~2660 tpy (+59%)

Projected PM_{2.5}
emission reductions
with rule
amendments:

~375 tpy*

Regulation 6, Rule 3 Purpose of Amendments

Clarify and strengthen requirements for claiming exemptions

 Update existing requirements and incorporate new regulatory standards

Transition to cleaner and more efficient heaters

Regulation 6, Rule 3 Strengthening Standards

New EPA Emission Standards for Wood Heaters

 Emission standards apply to wood heater manufacturers and retailers

Visible Emissions Limitation

 Standard consistent with Regulation 6, Rule 1: General Requirements for Sources of Particulate Matter

New Building Construction

No solid fuel or wood-burning devices

Regulation 6, Rule 3 Strengthening Standards Cont'd

Real Estate and Rental Disclosures

Documents to disclose health hazards of PM_{2.5}

Fireplace or Chimney Remodel

- A remodel costing > \$15,000 and requires a local building permit
- Requires a replacement to an EPA certified, gas-fueled or electric heating device

Rental Properties in Natural Gas Service Areas

 Requires installation of an alternate form of heat that does not burn wood

Regulation 6, Rule 3 Narrowing Exemptions

- Non-functional, Permanently-Installed Heater
 - Temporary 30-day exemption
 - Repair requirement

- Loss of Natural Gas and/or Electric Power
 - Natural disasters or utility service maintenance activities
- Sole Source of Heat * (310 tpy)
 - Households with no alternate form of heat

 (i.e. no permanently-installed gas-fueled or electric heaters)
 - Must be an EPA certified device & registered with District

Regulation 6, Rule 3 Proposed Effective Dates

Proposed Amendment	Proposed Effective Date
Exemption - Sole Source of Heat	Nov. 1, 2016
Exemption - Non-functional, Permanently Installed Heater	Nov. 1, 2015
Exemption - Loss of Natural Gas and/or Electric Power	Nov. 1, 2015
New EPA Emission Standards for Wood Heaters	2015 & 2020 (per NSPS requirements)
Visible Emissions Limitation	Nov. 1, 2015
Real Estate and Rental Disclosure	Nov. 1, 2015
Fireplace or Chimney Remodel	Nov. 1, 2016
New Building Construction	Nov. 1, 2016
Rental Properties in Natural Gas Service Areas	Nov. 1, 2018

Regulation 6, Rule 3 Incentive Program Timeline

Develop Incentive Program Request for Proposal

Board Update and Request for Funding Incentive Program Open to Public

MAY JUNE JULY

AUGUST

SEPTEMBER

SPRING 2016

Overview of Incentive Program



 \$3M commitment to cleaner, efficient heating devices

 Assistance for up to 1,600 households

- Incentive Program Design
 - Baseline Funding
 - Enhanced Funding



Incentive Program Funding

\$3 Million Program Funding

- Device Type Allocation (60%)
 - Heat Pump
 - Natural Gas/ Propane Device
 - EPA Certified Wood-burning Device
- Enhanced Funding Allocation (27%)
 - Low-Income Household
 - Sole Source of Heat Household
 - High Wood Smoke Impacted Area
- Program Administration (13%)

Gas-fueled and Electric Heating Devices









Wood-Burning Devices









Incentive Program Funding Categories

Device	Estimated Cost	Incentive
Heat Pump	\$4,000-12,000	\$2,500 - \$3,500
Gas Furnace	\$4,500-10,000	\$2,000 - \$3,000
Gas-fueled Stove/Insert (Natural Gas or Propane)	\$3,500-5,000	\$500 - \$1,000
EPA Certified Wood-burning	\$2,500-5,500	\$0 - \$500

Enhanced Funding for Selected Groups		
Low-Income Household	\$2,500 - \$3,500	
Sole Source of Heat Household	\$1,000 - \$1,500	
High Wood Smoke Area	\$1,000 - \$1,500	

Program Administration



 Request for Proposals (RFP)

2 Qualified Bidders

 Cost limited to less than 13% of available program funds

Wood Smoke Reduction Strategy Discussion Items

 General Direction on Wood Smoke Strategy

2) Strategy on Sole Source of Heat Exemption

3) Strategy on "High Wood Smoke Impact Areas"

Wood Smoke Reduction Strategy Discussion Items

1) General Direction on Wood Smoke Strategy

- Incentive program funding (\$3 million)
 - Request authorization of a transfer of \$3 million from reserves to Program 402, Professional Services
- Outsource Incentive Program administration
- Balance between proposed rule amendments and Incentive Program

Wood Smoke Reduction Strategy Discussion Items

2) Strategy on Sole Source of Heat Exemption (Estimated PM_{2.5} Emission Reduction – 310 Tons/Year)

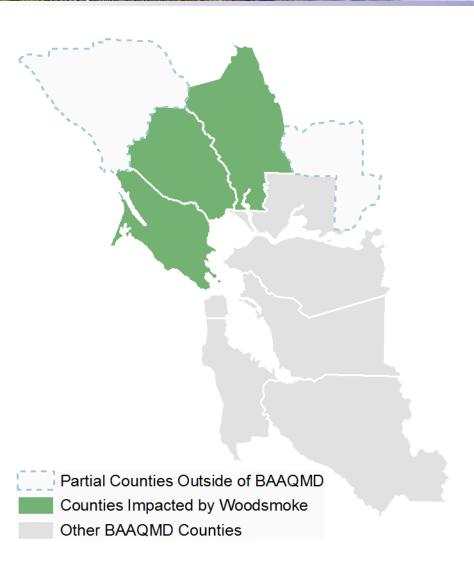
Regulatory Program

- Do not require EPA-certified wood burning devices
- Require EPA-certified wood burning devices
- Require EPA-certified wood burning devices that meet the year 2020 standard

<u>Incentive Program</u>

- Provide incentives to change out uncertified wood-burning devices to EPA-certified wood burning devices
- No incentives to change out wood-burning devices

Strategy on High Wood Smoke Impact Areas Discussion Items



- High Wood Smoke Impact Areas
- Require EPA Certified Wood-Burning Devices
- Require EPA Certified Wood Burning Devices with Incentives
- Only Provide Incentives and No Requirements to Replace Device