



PROPOSED AMENDED RULE (PAR) 445 WOOD-BURNING DEVICES

PUBLIC CONSULTATION MEETING

September 30, 2020

Rule 445 – Wood-Burning Devices

- Applies to residential fireplaces or wood-burning stoves
- Currently reduces ambient fine particulate (PM_{2.5}) levels linked to:
 - Increased mortality
 - Cardiovascular and respiratory impacts
- Rule is key to attainment of health based National Ambient Air Quality Standards (NAAQSs) for fine particulates
- PM_{2.5} contingency measures added June 5, 2020

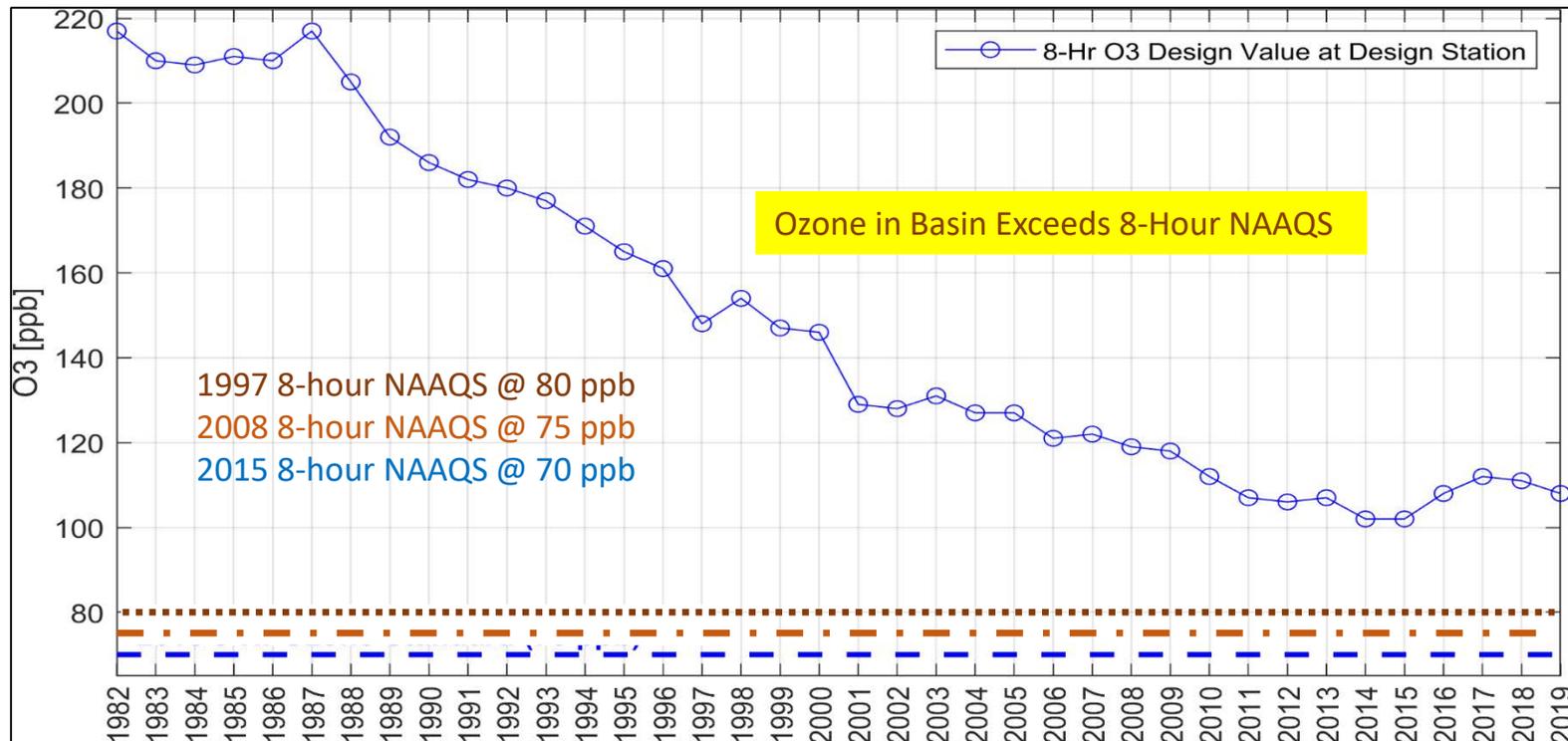
Reason for Proposed Amendment

- Basin classified as Extreme nonattainment for ozone based on days of unhealthy air quality
- EPA interprets the *Bahr v. EPA*, 836 F.3d 1218 (9th Cir. 2016) Court ruling to require additional ozone contingency measures
 - Additional measures automatically triggered if the U.S. EPA makes a final determination that a Reasonable Further Progress report requirement or that the standard is not met by the applicable due date
 - Only go into effect if triggered
- Proposed amendment adds contingency measures for 8-Hour ozone NAAQS
- South Coast AQMD is under a deadline of October 31, 2020, to submit an RFP contingency measure to the U.S. EPA

Applicable Ozone NAAQS

8-Hour Standard	Attainment Threshold	Basin Status	Basin Designation	Attainment Date
1997	0.08 ppm (80 ppb)	Nonattainment	Extreme	6/15/2024
2008	0.075 ppm (75 ppb)	Nonattainment	Extreme	7/20/2032
2015	0.070 ppm (70 ppb)	Nonattainment	Extreme	8/3/2038

Historical 8-Hour Ambient Ozone



Existing Rule Requirements – No Change

- Not allowed in new developments
- Replacement of existing units must be with types approved in rule
- Seasoned wood fuel provision
- Non-wood fuel burning prohibition (e.g., no trash burning)
- Wood-burning curtailment on “No-Burn” days:
 - Unhealthful levels of ambient PM_{2.5} forecast ($29\mu\text{g}/\text{m}^3$)
 - Wood-burning prohibited
- Contingency Measures for PM_{2.5}
 - Triggered upon U.S. EPA final determination of a
 - Failure to meet PM_{2.5} reporting milestone/PM_{2.5} NAAQS attainment deadline

Proposed Changes: New Definitions for Ozone

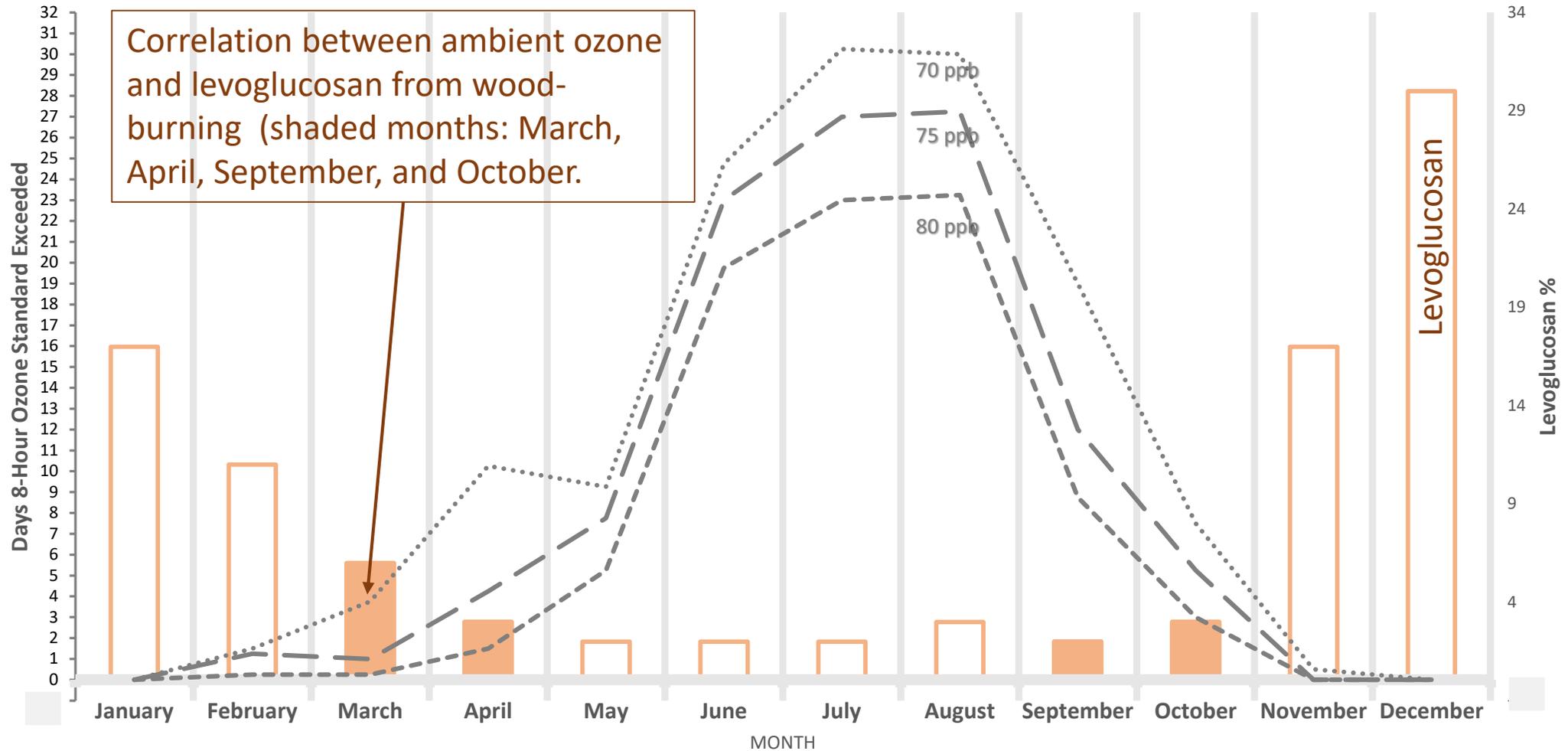
- (c)(3) Daily Maximum 8-Hour Ozone Forecast
- Wood-Burning Season (*extended for ozone only AND if first ozone contingency is triggered)

MONTH	January	February	March	April	May	June	July	August	September	October	November	December
Current Wood Burning Season (PM2.5 Only)	↔										↔	
Potential Wood Burning Season For Ozone*	↔								↔			

Proposed: (g) Ozone Contingency Measures

- (1) Upon the issuance of a final determination by U.S. EPA, that the South Coast Air Basin has failed to comply with the following requirements by the applicable date to:
- (A) meet a Reasonable Further Progress (RFP) requirement in an approved attainment plan for an applicable ozone NAAQS; or
 - (B) attain an applicable ozone NAAQS by the applicable attainment date,
the applicable contingency measure(s) specified in paragraph (g)(2) shall be implemented, sequentially and in the order of stringency.
- (2) Basin-wide, below 3,000 feet above mean sea level, no person shall operate an indoor or outdoor wood-burning device, portable outdoor wood-burning device, or wood-fired cooking device on a calendar day during the wood-burning season for ozone, so declared by Executive Officer to be a curtailment (No-Burn) day due to forecasted ambient ozone concentration levels, if the daily maximum 8-hour ozone air quality forecast for any SRA exceeds:
- (A) 80 ppb, upon a final determination of a first failure to comply with any of the provisions of paragraph (g)(1);
 - (B) 75 ppb, upon a final determination of a second failure to comply with any of the provisions of paragraph (g)(1); and
 - (C) 70 ppb, upon a final determination of a third failure to comply with any of the provisions of paragraph (g)(1).

Ambient Levoglucosan and Ozone Patterns



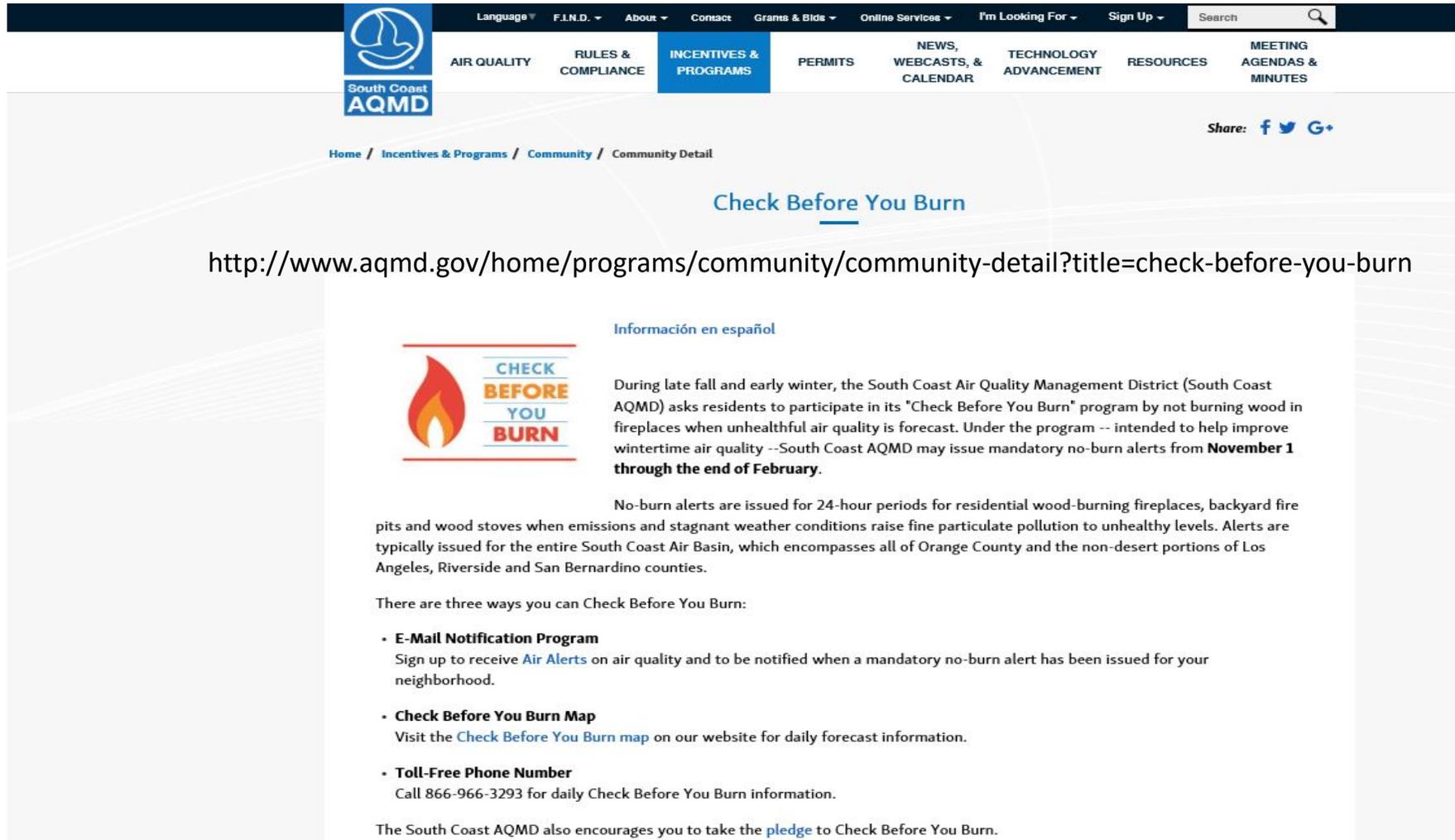
Exemptions From Wood-Burning Curtailment

- Sole source of heat
- Low-income households
- No natural gas service within 150 feet
- $\geq 3,000$ feet above mean sea level
- Ceremonial Fires exempted under Rule 444 – Open Burning
- Also - Existing Rule 445 PM_{2.5} provisions in Rule 444 unchanged:
Wood-Burning curtailment season November 1 through February only

Estimated VOC Contingency Emission Reductions

Contingencies	Upon Triggering the First Contingency Measure	Upon Triggering a Second Contingency Measure	Upon Triggering a Third Contingency Measure
Forecast Threshold	80 ppb	75 ppb	70 ppb
TPY	22.38	46.10	88.43

Public Outreach



The screenshot shows the South Coast AQMD website. The top navigation bar includes links for Language, F.I.N.D., About, Contact, Grants & Bids, Online Services, I'm Looking For, Sign Up, and a search box. The main menu features categories like AIR QUALITY, RULES & COMPLIANCE, INCENTIVES & PROGRAMS (highlighted), PERMITS, NEWS, WEBCASTS, & CALENDAR, TECHNOLOGY ADVANCEMENT, RESOURCES, and MEETING AGENDAS & MINUTES. The breadcrumb trail reads: Home / Incentives & Programs / Community / Community Detail. The page title is "Check Before You Burn". Below the title is the URL: <http://www.aqmd.gov/home/programs/community/community-detail?title=check-before-you-burn>. There is a "Share:" button with icons for Facebook, Twitter, and Google+. The main content area features a graphic with a flame and the text "CHECK BEFORE YOU BURN". Below this is a link for "Información en español". The text describes the "Check Before You Burn" program, which asks residents to not burn wood in fireplaces when unhealthy air quality is forecast. It notes that South Coast AQMD may issue mandatory no-burn alerts from **November 1 through the end of February**. It also states that no-burn alerts are issued for 24-hour periods for residential wood-burning fireplaces, backyard fire pits, and wood stoves when emissions and stagnant weather conditions raise fine particulate pollution to unhealthy levels. Alerts are typically issued for the entire South Coast Air Basin, which encompasses all of Orange County and the non-desert portions of Los Angeles, Riverside, and San Bernardino counties. There are three ways to check before you burn:

- **E-Mail Notification Program**
Sign up to receive [Air Alerts](#) on air quality and to be notified when a mandatory no-burn alert has been issued for your neighborhood.
- **Check Before You Burn Map**
Visit the [Check Before You Burn map](#) on our website for daily forecast information.
- **Toll-Free Phone Number**
Call 866-966-3293 for daily Check Before You Burn information.

The South Coast AQMD also encourages you to take the [pledge](#) to Check Before You Burn.

Rule Development Schedule

September 25, 2020 - Set Hearing Documents
(Draft Rule and Staff Report) Publicly Available

*** Please submit comments by October 13, 2020 ***

October 16, 2020 - Stationary Source Committee Meeting

October 27, 2020 – Governing Board Special Meeting

Questions or Comments

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