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 (PM2.5) 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
• PM2.5 contingency measures added June 5, 2020
Reason for Proposed Amendment

- Basin classified as Extreme nonattainment for ozone based on days of unhealthful 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

<table>
<thead>
<tr>
<th>8-Hour Standard</th>
<th>Attainment Threshold</th>
<th>Basin Status</th>
<th>Basin Designation</th>
<th>Attainment Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>1997</td>
<td>0.08 ppm (80 ppb)</td>
<td>Nonattainment</td>
<td>Extreme</td>
<td>6/15/2024</td>
</tr>
<tr>
<td>2008</td>
<td>0.075 ppm (75 ppb)</td>
<td>Nonattainment</td>
<td>Extreme</td>
<td>7/20/2032</td>
</tr>
<tr>
<td>2015</td>
<td>0.070 ppm (70 ppb)</td>
<td>Nonattainment</td>
<td>Extreme</td>
<td>8/3/2038</td>
</tr>
</tbody>
</table>
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 PM2.5 forecast (29µg/m³)
  - Wood-burning prohibited
- Contingency Measures for PM2.5
  - Triggered upon U.S. EPA final determination of a
  - Failure to meet PM2.5 reporting milestone/PM2.5 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)

<table>
<thead>
<tr>
<th>MONTH</th>
<th>January</th>
<th>February</th>
<th>March</th>
<th>April</th>
<th>May</th>
<th>June</th>
<th>July</th>
<th>August</th>
<th>September</th>
<th>October</th>
<th>November</th>
<th>December</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Current</strong></td>
<td>Wood-Burning Season (PM2.5 Only)</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td><strong>Potential</strong></td>
<td>Wood Burning Season For Ozone*</td>
<td></td>
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</tbody>
</table>

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

Correlation between ambient ozone and levoglucosan from wood-burning (shaded months: March, April, September, and October.

Exemptions From Wood-Burning Curtailment

- Sole source of heat
- Low-income households
- No natural gas service within 150 feet
- ≥ 3,000 feet above mean sea level
- Ceremonial Fires exempted under Rule 444 – Open Burning
- Also - Existing Rule 445 PM2.5 provisions in Rule 444 unchanged: Wood-Burning curtailment season November 1 through February only
### Estimated VOC Contingency Emission Reductions

<table>
<thead>
<tr>
<th>Contingencies</th>
<th>Upon Triggering the <strong>First</strong> Contingency Measure</th>
<th>Upon Triggering a <strong>Second</strong> Contingency Measure</th>
<th>Upon Triggering a <strong>Third</strong> Contingency Measure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forecast Threshold</td>
<td>80 ppb</td>
<td>75 ppb</td>
<td>70 ppb</td>
</tr>
<tr>
<td>TPY</td>
<td>22.38</td>
<td>46.10</td>
<td>88.43</td>
</tr>
</tbody>
</table>

### Public Outreach

Public Outreach


**Check Before You Burn**

During late fall and early winter, the South Coast Air Quality Management District (South Coast AQMD) also encourages participation in the "Check Before You Burn" program by not burning wood in open spaces when unhealthy air quality is forecast. Submit the program's online form to receive air quality updates:

**Alert Information:**

- **Check Before You Burn Program:**
  - Sign up to receive air quality updates.
- **Check Before You Burn Map:**
  - Visit the Check Before You Burn map on the website for daily forecast information.
- **Talk Air Program Information:**
  - Call 800-966-1393 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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