



SIP Submittal Fun!

CAA Section 110 (I) discussion: criteria pollutants and NAAQS considerations - in detail: how the SMP impacts these or not; is it a relaxation or more stringent?

Includes data, charts, citations to support the document and arguments

Addressing older rules is always a challenge

Other topics: Regional haze, visibility, the use of polyethylene on piles, fuel treatments / non-burning considerations, and so forth

Draft to EPA very shortly.... Then back and forth over the next 6 months!



OREGON SMOKE MANAGEMENT

Rule Updates

EXECUTIVE UPDATES



- SUMMARY OF CHANGES, Oregon Smoke Management Program Rules (OAR 629-048)

- Implementation began March 1, 2019
- “Smoke Intrusion” definitions changed from any Rx smoke at ground level in SSRA to:
 - PM 2.5 averages at or above 26 micrograms/cu meter over 24-hour period from midnight to midnight.
 - PM 2.5 averages at or above 70 micrograms/cu meter over any 1-hour period.



EXECUTIVE UPDATES



- SUMMARY OF CHANGES, Oregon Smoke Management Program Rules (OAR 629-048)
 - Intensity measure of intrusions eliminated.
 - no light, moderate, or heavy intensity intrusions
 - New thresholds remain within National Ambient Air Quality Standards (NAAQS).
 - 35 micrograms/cu meter averaged over 24-hour period from midnight to midnight.



EXECUTIVE UPDATES



- SUMMARY OF CHANGES, Oregon Smoke Management Program Rules (OAR 629-048)

- Total particulate amount from all sources.
 - Previously based on prior 3-hour average above background level.
 - Areas with pre-existing high levels of particulate may see more smoke restrictions.
- Ground level smoke into any sensitive area not meeting smoke intrusion criteria will be defined as a “smoke incident”.



EXECUTIVE UPDATES



- SUMMARY OF CHANGES, Oregon Smoke Management Program Rules (OAR 629-048)

- Smoke Management Plan replaces “prevent smoke from entering into SSRA’s” with “minimize smoke emissions.”
- Reporting requirements will vary depending on:
 - Smoke Incident
 - Smoke Intrusion
 - Smoke Intrusion that exceeds National Ambient Air Quality Standards.



EXECUTIVE UPDATES



- SUMMARY OF CHANGES, Oregon Smoke Management Program Rules (OAR 629-048)
 - Statewide communication plan to be developed by ODF.
 - Community Response Plans will be encouraged for smoke vulnerable SSRAs.
 - New rule added “vulnerable population” definition.
 - Exemption from hourly intrusion threshold can be requested by communities with Community Response Plans.



EXECUTIVE UPDATES



- SUMMARY OF CHANGES, Oregon Smoke Management Program Rules (OAR 629-048)

- Use of polyethylene coverings as a emissions reduction technique (ERT) encouraged.
 - No restrictions on size, thickness, or coverage.
- Additional example of alternatives to burning
- Updated web links
- Other minor edits





NEW SMOKE MANAGEMENT PLAN

INITIAL IMPLEMENTATION (March 1)

- No polyethylene size or thickness requirements
- Smoke Incidents will be recorded on internal log with no further action necessary.
- Smoke Intrusions will be investigated and reported as before.
- NAAQS exceedances will be reported to DEQ to determine adaptive management actions.
- CAUTIOUS implementation of new intrusion definition.



NEW SMOKE MANAGEMENT PLAN

FUTURE IMPLEMENTATION

- Prescribed burn instructions will be updated to consider polyethylene use and change in intrusion definition.
- Communication Plan / Community Response Plan / Exemption Requests



Questions?





NEW SMOKE MANAGEMENT PLAN

POTENTIAL CHALLENGES

- Poor air quality may lead to increased burn restrictions.
- NAAQS exceedances will have management actions to prevent future occurrences.
- Smoke incidents that reach intrusion levels could lead to additional SSRAs.

POTENTIAL BENEFITS

- Covered piles will allow for more burning near SSRAs.
- Increased burn opportunities based on less restrictive intrusion definition.
- Communication Plan and Response Plan should provide improved social license to burn.

EXECUTIVE UPDATES

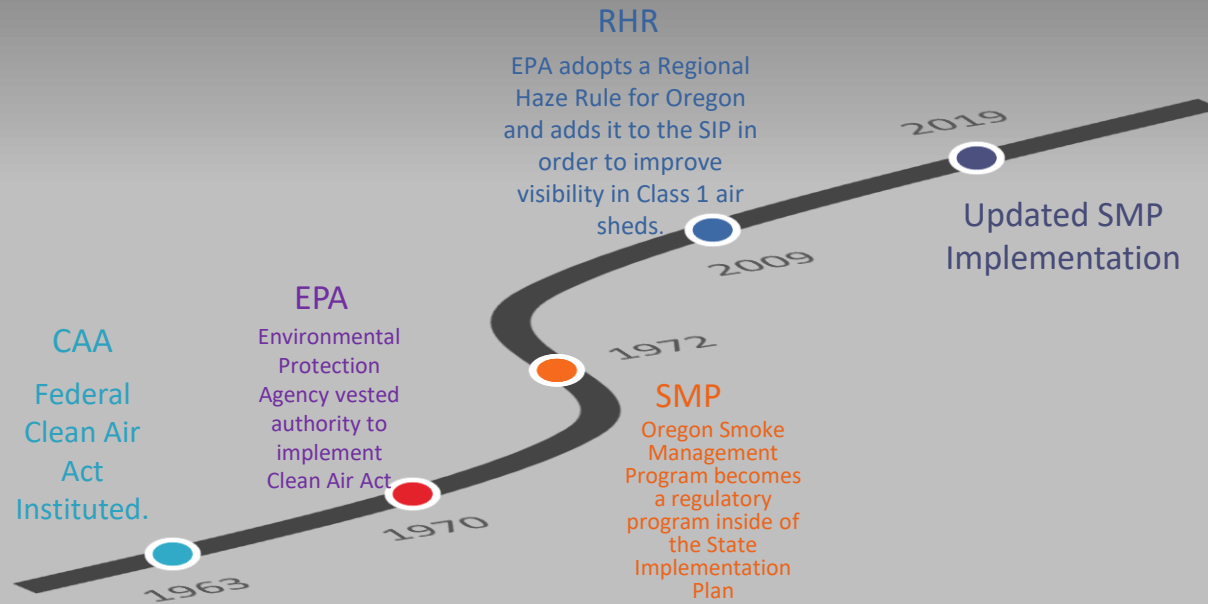


- SUMMARY OF CHANGES, Oregon Smoke Management Program Rules (OAR 629-048)
 - Moved Special Protection Zone (SPZ) requirements from directive to rule. Updated SPZ maps for Oakridge, Klamath Falls, and Lakeview based on topography.
 - New rule added contingency plan requirements for SPZ's that have or currently exceed the NAAQS.



Overview of Federal & State Regulations

Timeline





NEW SMOKE FORECASTING

MAXIMIZING BURN OPPORTUNITIES

- Localized burn strategies for units near SSRAs.
- Increase burning on better air quality days.
- Continue close coordination with Smoke Management Staff.
- Coordinate experimental burning with Smoke Management.
 - Creating prescriptions that target priority fuels.
 - Use emission reduction techniques that burn in stages.
 - Research more efficient ways to burn.
 - Opportunities to calibrate models on emissions/fuel loading and downwind impact.
- Send audits to the Smoke Management Field Coordinator to assist in finding trends & possible burning opportunities.



All Air Quality Monitors Are Not Equal

- Federal Reference Monitors
 - Most accurate
 - Used to determine attainment with NAAQS
- DEQ Smoke monitors
 - Less accurate than FRMs
 - Better than most inexpensive monitors
 - Can't be used to determine non-attainment
 - Used widely around the state
 - Good for comparing with the AQI
- Personal Air Monitors (e.g., Purple Air Monitors)
 - Not very accurate, but not expensive
 - Good to determine relative amount of smoke