DESIGNATING AREAS FOR THE 2015 OZONE STANDARD

April 13, 2016

Laura Lawrence Air Planning Office



OUTLINE

- 2015 Ozone Standard
 Designation Process
 Implementing the Standard
- Next steps



2015 OZONE STANDARD



OZONE HEALTH EFFECTS

- Breathing ozone can trigger chest pain, coughing, throat irritation
- Ozone exposure can worsen bronchitis, emphysema, and asthma.
- Children, the elderly, and people with respiratory diseases are especially sensitive to ozone exposure.



OZONE FORMATION

- Created in the atmosphere when oxides of nitrogen (NOx) and volatile organic compounds (VOC) react in the presence of sunlight.
- Sources of NOx and VOC include:
 - Cars and trucks
 - Construction equipment
 - Industrial pollution
 - Personal care products



OZONETRANSPORT

- Ozone formation can take several hours
- Highest concentrations of ozone often found downwind of sources of NOx and VOC
- Example: Alpine has highest ozone in San Diego County



2015 OZONE STANDARD

- Ozone regulated since the 1970's
- Clean Air Act requires periodic review of new science
- Ozone standard lowered in 2015 to 70ppb
- Triggers two-year process to designate all areas for new standard



DESIGNATIONS PROCESS



NEW STANDARD TRIGGERS DESIGNATIONS PROCESS



2015 OZONE STANDARD: DESIGNATIONS TIMELINE

Date	Milestone
October 1, 2015	Standard lowered to 70ppb
October 1, 2016	Recommendations for ozone designations due to EPA
June 1,2017	EPA responds to recommendations
October 1, 2017	Designations finalized

DESIGNATION GUIDANCE

- Memo distributed to tribes February 2016
- Describes factors EPA will consider in determining area boundaries:
 - Air quality data
 - Emissions and related data
 - Meteorological data
 - Geography / topography
 - Jurisdictional boundaries





TRIBAL RECOMMENDATIONS



- Submitting a recommendation is optional
- Suggested analyses described in guidance memo
- EPA providing data via an interactive mapping tool







DESIGNATING TRIBAL LANDS

- Historically designated together with state land
- Submitting recommendations is optional for tribes
- State recommendations do not include recommendations for nearby tribal land



DESIGNATING TRIBAL LANDS

- Purpose of designating tribal land:
 - Inform the public of air quality in and around tribal lands
 - Not a statement about whether tribal sources contribute to air pollution
- Designating a tribe as its own area requires regulatory air monitoring data



IMPLEMENTING THE 2015 OZONE STANDARD

MEETING THE STANDARDS

EPA projections show federal rules will reduce air pollution on tribal lands:

- Regional Haze regulations
- Mercury and Air Toxics Standards
- Clean Power Plan
- Tier 3 Vehicle Emissions and Fuels Standards
- Light-Duty Vehicle Tier 2 Rule
- Mobile Source Air Toxics Rule
- Light-Duty Greenhouse Gas/Corporate Average Fuel Efficiency Standards
- Heavy-Duty Vehicle Greenhouse Gas Rule
- Reciprocating Internal Combustion Engines (RICE) NESHAP
- Industrial/Commercial/Institutional Boilers and Process Heaters MACT
- Requirements to reduce the interstate transport of air pollution.



PERMITS

- New and modified sources of pollution on tribal lands require permits
- New designation may change permit threshold for major and minor sources
- For more information on tribal air permits:
 - Lisa Beckham (415) 972-3811 <u>R9AirPermits@epa.gov</u>



PLANS AND CONTROL MEASURES

- Tribes are not required to submit plans or enact controls
- States must submit plans and enact controls on state land
- Tribes may submit plans and enact controls and can participate in state planning process



TRIBAL NONATTAINMENT AREAS

- For tribal areas designated separately from states:
 - Tribe or EPA addresses control requirements
 - Regulatory air monitoring data required
- For more information see EPA policy on tribal designations: <u>https://www.epa.gov/tribal-air</u>



NEXT STEPS



NEXT STEPS

Important Deadlines*	
October I, 2016	Recommendations due to EPA
June 1,2017	EPA responds to recommendations
*These deadlines are set by Clean Air Act	

CONTACT US

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