



BAY AREA  
AIR QUALITY  
MANAGEMENT  
DISTRICT

AGENDA: 17

# **Update on Petroleum Refining Emissions Tracking Rule**

**Board of Directors  
July 31, 2014**

**Eric Stevenson  
Director of Technical Services**



# Rule Development Process

- Process started in 2012 with a Regulatory Concept paper and the “Work Plan for Action Items Related to Accidental Releases from Industrial Facilities”
- First draft of the rule released in March of 2013
- In April of 2013, public workshops held (Martinez, Richmond, District office – webcast)
- Meeting with interested parties throughout the process
- Goal: Complete the rule by the end of 2014



# Proposed Rule Elements

- Report on-going ***annual emissions inventories*** of all regulated air pollutants based on upgraded methods, including emissions from cargo carriers
- Establish ***Petroleum Refinery Emissions Profile (PREP)***, and require that on-going inventories include comparisons with PREP
- Report on-going ***crude oil quality characteristics*** with annual emissions inventories (e.g. sulfur, nitrogen content, API gravity, Total Acid Number)

The background of the slide features a faded image of the San Francisco Presidio, showing the iconic Palace of Fine Arts with its classical architecture and surrounding greenery.

# Proposed Rule Elements (continued)

- Update refinery-wide ***Health Risk Assessments (HRA)*** with enhanced emissions inventories and revised OEHHA HRA guidelines
- ***Enhance fence line systems and establish community air quality monitoring systems***
- ***Develop fee structure*** to recover costs



A background image of a forest with tall trees and green ferns in the foreground, partially obscured by a white gradient.

# Proposed Timelines

- Due Sept. 2016, based on 2015 data - First emissions inventory
- Due Sept. 2018, based on 2015, 2016 and 2017 data - First PREP
- Due Sept. 2016, on a quarterly basis, submitted annually - First crude quality report
- Due Mar. 2016 – HRAs (Dependent on finalization of method by OEHHA)
- Air Monitoring Plan due by end of 2015 – Fence line system installed within one year and community monitoring within two years of plan approval



# Opportunities

- Petroleum Refinery Emission Tracking Rule structure provides information for further action
  - Source category controls provide a proven approach
  - Increased transparency of overall emissions and health risk
  - Tracking overall emissions, crude quality and community air quality
- Concurrently, develop Bay Area wide controls
  - Fluidized Catalytic Cracking (FCC) Units and other sources of PM
  - New HRA requirements



# Next Steps

- Continue discussions with stakeholders
- August - Finalize emissions inventory and air monitoring guidelines
- September - Hold another set of Public Workshops in Benicia, Richmond, Martinez and Air District office
- October - Complete analysis of socioeconomic and environmental impacts
- October - Complete staff report, including response to comments
- November/December - Hold public hearing for consideration of adoption

# Summary of Ozone Seasons

Year	National 8-Hour	State 1-Hour	State 8-Hour
2011	4	5	10
2012	4	3	8
2013	3	3	3
2014	3	2	7

**Spare the Air Alerts: 5/12, 5/13, 5/14, 6/8, 6/9, 7/25**

**Days > 0.075 ppm 8-hour NAAQS: 4/30, 5/1, 5/14**