Imperial County 2013 State Implementation Plan for the Federal PM2.5 Standard

December 18, 2014
Overview

* Imperial County Air Quality
* Impact of International Emissions
* SIP Elements
* Improving Border Air Quality
Imperial County Nonattainment Area

* Portion of county nonattainment for 24-hour PM2.5 standard

* Air quality challenges:
  * Inland valley
  * Pollutant transport from Mexico
Three cities similar in size, population, and emissions
PM2.5 levels improving throughout region
Calexico only remaining location over the 24-hr PM2.5 standard
Calexico and Mexicali share common airshed

Mexicali has significantly larger population and emissions

Stagnant winter conditions allow pollution to accumulate in border region
Clean Air Act –
International Border Areas

* Clean Air Act contains provisions to address cross-border pollutant transport
* Includes technical demonstration to identify impact of international emissions
* States must address controls on local sources
Assessing Impact of International Emissions

* Based on U.S. EPA guidance
* Comprehensive analysis of exceedance days:
  * Wind patterns
  * Emission inventories
  * Chemical composition of PM2.5
  * Source identification
Assessment Results

- Concentrations increase during wind flow from the south
- Highest concentrations focused in border region
- Exceedances linked to unique signature of Mexicali sources
PM2.5 SIP Elements

* Ensures air quality improvement:
  * Reasonably Available Control Measures
  * Quantitative emissions milestones
  * Commitment for Further Study Measures
* Demonstrates local emissions at level to attain PM2.5 standard
Improving Border Air Quality

* Imperial County APCD, ARB, and U.S. EPA working collaboratively with counterparts in Mexico

- MOU – California & Mexico
- Mexicali/Imperial AQ Task Force
- Border 2020 Program
- Diesel Truck Inspection Program
- Mexicali Monitoring Study
- Port-of-Entry Vehicle Idling Study
- Imperial County/Mexicali Outreach & Education
Staff Recommendation

- Imperial County PM2.5 Plan meets applicable requirements of the Clean Air Act

- Approve Imperial County PM2.5 Plan as a revision to the California SIP