Five-Year Network Assessment

PQAO Training 2019: June 4-6, 2019

Craig Anderson
Air Quality Analysis Section
CARB Air Quality Planning & Science Division
Outline

- The Five Ws of the Assessment
- Assessment vs. Annual Network Plan
- Monitoring Considerations and Priorities
- Using the Assessment as a Tool
- Timeline
What is the Assessment and Why does it have to be Prepared?

- 40 CFR58.10(d) - Annual monitoring network plan and periodic network assessment (https://www.ecfr.gov/)

- Evaluate:
  1. whether new sites are needed
  2. whether existing sites are no longer needed and can be terminated
  3. whether new technologies are appropriate

- Consider:
  1. ability to support AQ characterization for areas with relatively high populations of susceptible individuals
  2. effect discontinuing sites would have on data users other than the agency itself

- Prepare and submit!
Where does the Assessment Cover?

- Large network
- 35 air districts + other agencies
- Various types of equipment
- Distinct air basins
- Distributed population
- Intra- and interstate transport
Who Prepares the Assessment?

- CARB or local district
- In 2015:
  - CARB – 25 districts in the PQAO
  - Bay Area AQMD + Yolo-Solano AQMD
  - South Coast AQMD
  - San Diego County APCD
  - 6 Remaining Districts: San Joaquin, Monterey, North Coast, Sacramento Metro., San Luis Obispo, Santa Barbara

https://www3.epa.gov/ttnamti1/5yrnetassess.html
When is the Assessment Due?

- Every five years beginning July 1, 2010

Who Receives the Assessment?

- EPA Regional Administrator
How will the Assessment be Prepared?

- 2015 CARB Assessment
  - Air basin-level
  - Population density
  - Topography
  - Meteorology
  - Emissions sources
  - Monitoring site locations
  - High concentration
  - Design values
How will the Assessment be Prepared?

- Wide-range of statistics, GIS layers, and analyses used across Districts and states:
## Assessment vs. Annual Network Plan

<table>
<thead>
<tr>
<th></th>
<th><strong>Assessment</strong></th>
<th><strong>ANP</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Preparation Interval:</td>
<td>Every 5 years</td>
<td>Annual</td>
</tr>
<tr>
<td>Required Content:</td>
<td>Limited</td>
<td>Specific and extensive</td>
</tr>
<tr>
<td>Public Comment Period:</td>
<td>None</td>
<td>Minimum of 30 days</td>
</tr>
<tr>
<td>Time Frame:</td>
<td>Future (2-5 years)</td>
<td>Near-term (previous year through next 12-18 months)</td>
</tr>
</tbody>
</table>
Monitoring Considerations and Priorities

- Monitoring in nonattainment/attainment areas
- Monitor density
- Resources
- Equipment support requirements
- Minimum monitoring
- Collocation requirements
- AQI reporting

https://airnow.gov/
Using Assessment as a Tool

• Well-documented support for:
  – Adding/moving monitoring sites
  – Closing monitoring sites

• Provides material for upper-management/Boards when requesting more resources

• Serves as long-term guidance for monitoring program

• Supports preparation of Annual Network Plan
Timeline for 2020 Assessment

**Summer 2019**
- Review previous assessments
- Define goals
- Reach out to CARB PQAO Districts

**Fall/Winter 2019-2020**
- Prepare outline
- Develop assessment methods and tools
- Meet with CARB planning and monitoring staff

**Spring 2020**
- Contact Districts where monitoring changes are suggested
- Send draft assessment to Districts

**July 2019**
Submit final assessment to EPA by July 1
Summary

• Who? → CARB and local districts
• What? → Evaluate adequacy of monitoring network
• When? → July 1, 2020
• Where? → Each PQAO or District
• Why? → Federal CFR requirement
• How? → Up to you!
Thank You!

Contact Information

Craig.Anderson@arb.ca.gov
(916) 324-0550