Investigative Approach

**Air Monitoring**
Purpose is to identify if there are elevated levels of pollutants.
First step to identifying a facility or source.

**Compliance Audits**
Purpose is to identify any compliance issues.
SCAQMD compliance audits and Multi-agency compliance audits.

**Information Gathering**
Purpose is to visit facility to understand potential sources of emissions and solutions.
Site visits conducted by rule, permitting, and monitoring teams.

**Sampling and Testing**
Collect bulk samples of dust and material and source testing of equipment from key operating areas to correlate air monitoring data with emission sources within facility.

**Emission Reduction Efforts**
Implementation efforts to reduce emissions based on findings. Can be through rule amendments, cooperative efforts, or enforcement actions.
Expanded Hexavalent Chromium Monitoring

• Expanded sampling began October 15, 2016
  • Based upon increased levels of hexavalent chromium observed nearby in 2016
• Sampling and analysis
  • First time saturation technique used for hexavalent chromium measurements
  • 24-hour samples, collected once every three days, mounted on light poles
  • Analysis of hexavalent chromium in air is challenging and is conducted at SCAQMD laboratory
• Some monitors are moved to new locations after sufficient data has been collected
  • Allows SCAQMD to maximize monitoring efforts to identify sources
Monthly Average Concentrations of Hexavalent Chromium

October 2016

January 2017

May 2017

Legend:
- Red: Over 10 ng/m³
- Orange: Between 5 to 10 ng/m³
- Yellow: Between 1 and 5 ng/m³
- Green: Less than 1 ng/m³
Hexavalent Chromium Monitoring

- Since October 2016, conducted monitoring at 30 different locations*
- Currently monitoring at 20 locations*
- Over 1400 ambient samples collected and analyzed from October 2016 through May 2017
- Results on SCAQMD website

*Monitored additional school sites with CARB
Hexavalent Chromium Levels Near Anaplex and Aerocraft

Graph showing the hexavalent chromium levels in ng/m3, with a blue line for Site #8 (Aerocraft) and a red line for Site #15 (Anaplex). The x-axis represents dates from 10/27/2016 to 5/16/2017, and the y-axis represents hexavalent chromium levels in ng/m3.
Source Test Screening Overview

- Conducted initial source testing and sampling at multiple facilities
  - Plating and anodizing tanks
  - Furnaces
  - Quenching tanks
  - Grinding areas
  - Pressing operation
- As reports are finalized, posted to website
Monitoring at Schools

- CARB started collecting samples at schools in Paramount
- City of Paramount provided additional monitors
- To date monitoring at 11 schools
- Levels at the majority of schools similar to background levels
- Planning on continuing to monitor Lincoln, Gaines, and Mokler
SCAQMD Compliance Activities

- Conducted 56 Door-to-Door Inspections
- Conducted 399 Facility Inspections of Various Types of Facilities, Including Metal
- Issued 144 Notices to Comply
- Issued 51 Notices of Violation
Multi-Agency Efforts

Approximately 194 potential metal handling/processing facilities were visited by inspection teams consisting of staff from:

- South Coast Air Quality Management District (SCAQMD)
- City of Paramount Code Enforcement
- LA County Department of Public Health
- LA County Fire - Certified Unified Program Agency (CUPA)
- Department of Toxic Substances Control (DTSC)
- California Air Resources Board (CARB)
Anaplex and Aerocraft
Order for Abatement Status

• Emission reduction actions
• Established a fence line hexavalent chromium limit
• Order has been successful – Curtailments
  • Aerocraft - 4
  • Anaplex – 1
• No curtailments required since March 16, 2017
• Required to further reduce health risks
Metal Forging Facilities in South Paramount

- Monitoring in general area began in December 2016
- Average hexavalent chromium levels are:
  - 1.2 ng/m$^3$ for monitor 23 and
  - 1.0 ng/m$^3$ for monitor 27
- Average for other monitors < 1 ng/m$^3$
- Investigations have focused on all three metal forging facilities
Progress to Date for Southern Paramount

• Emission reductions
  • Facilities voluntarily implementing interim measures to control metal grinding emissions
  • Facilities expediting installation of pollution controls to comply with new SCAQMD rule

• Conducting sampling and source testing inside facilities
Public Outreach

• 20 public conference calls
• 29 coordination/information sharing conference calls with other agencies
• 20 conference calls with elected representatives and/or their staff.
• 5 town hall meetings
• 3 Rule 1430 meetings
How to File an Air Quality Complaint

• File a complaint with SCAQMD for smoke, dust, or excessive odors
• Call 1-800-CUT-SMOG (1-800-288-7664)
• Making Air Quality Complaints (video)
  English - https://youtu.be/2uCXYwg7ZEg?t=39s
  Spanish - https://youtu.be/Rhe3pNwq_sQ
• @SouthCoastAQMD
Questions & Answers