

STATIONARY SOURCE CONTROL FOR PM_{2.5}

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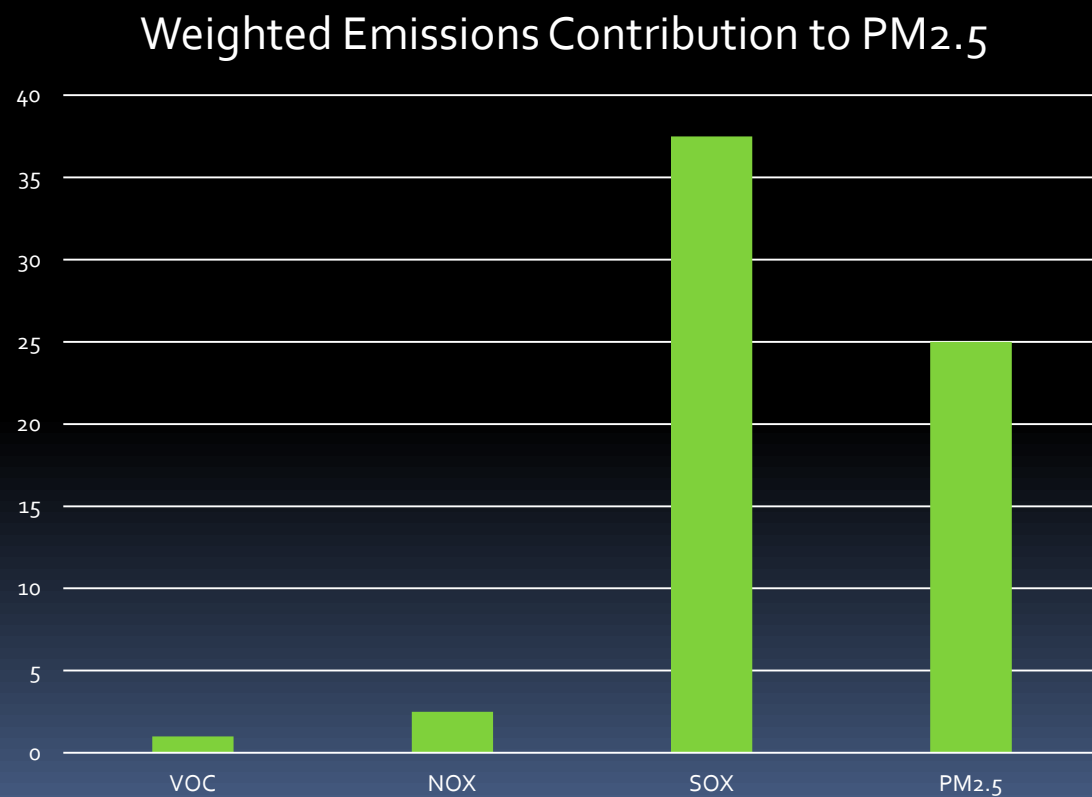
PM_{2.5} SIP

- Two forms of standard – annual and 24-hour
- Attainment Demonstration in 2016 AQMP
 - ✓ 2012 annual PM_{2.5} standard ($12 \mu\text{g}/\text{m}^3$) SIP (attain by 2021-2025)
- Additional Analysis in 2016 AQMP
 - ✓ Update to 24-hour PM_{2.5} SIP ($35 \mu\text{g}/\text{m}^3$) analyzed in 2012 AQMP
 - ✓ Serious area SIP (reductions by 2019) if 2015 data shows non-attainment and no extension under moderate classification
- Achieving PM_{2.5} standards from reductions in direct PM_{2.5} and precursors such as SO_x, ammonia, NO_x and VOC

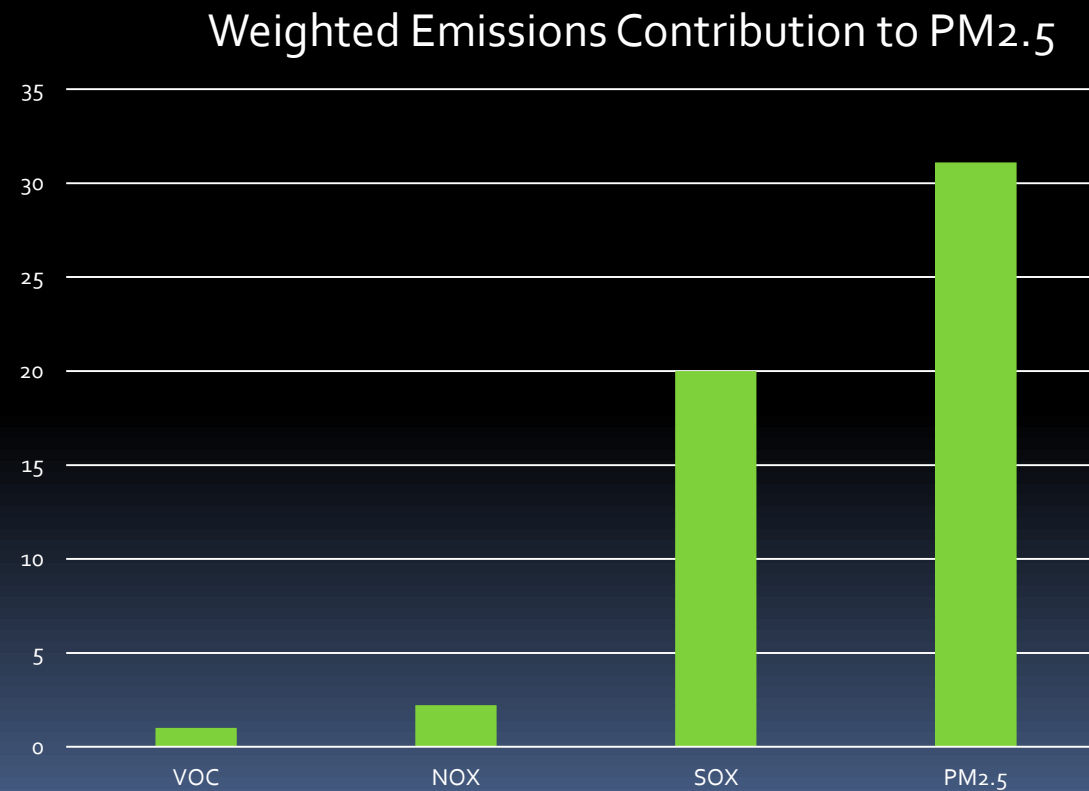


Multiple Precursor Emissions

Annual PM_{2.5}



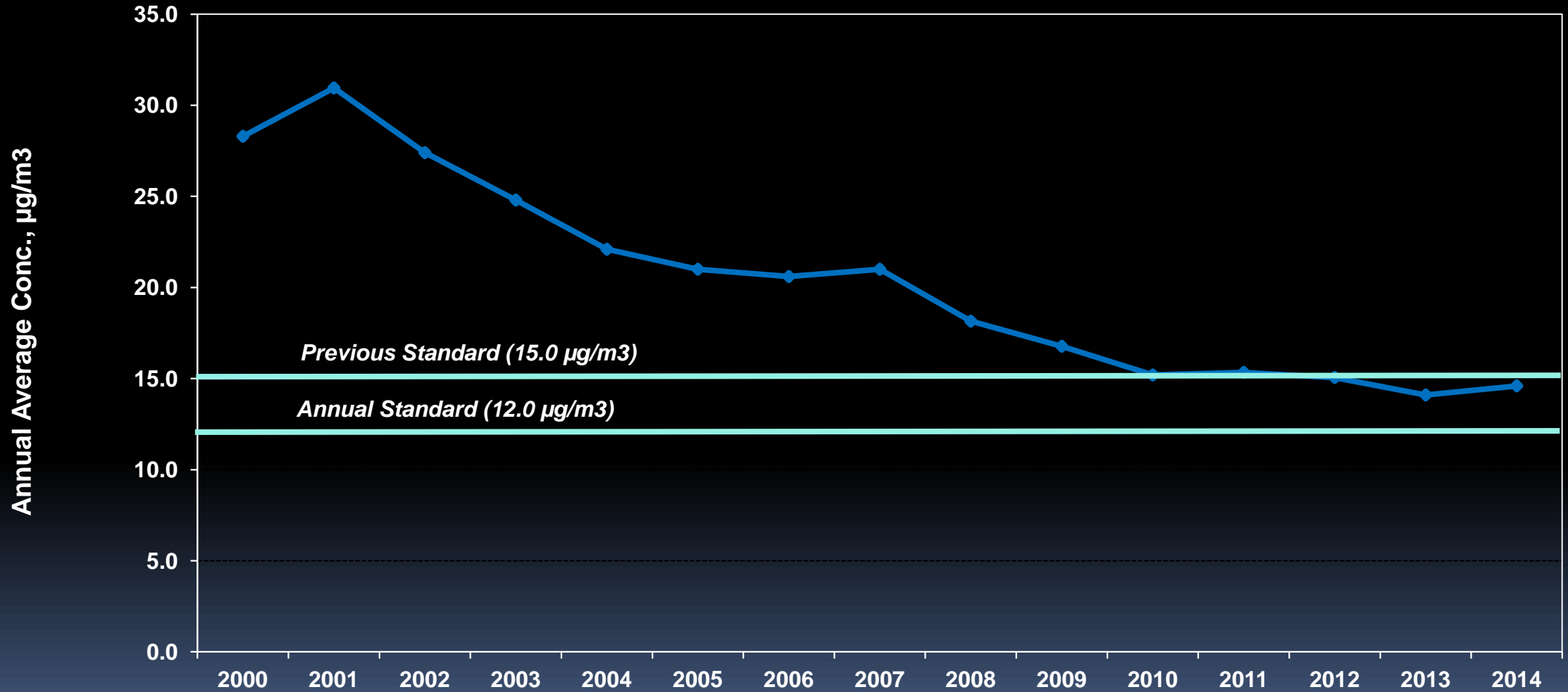
24-Hour PM_{2.5}



Ammonia factored into sulfate and nitrate PM_{2.5} contributions to mass

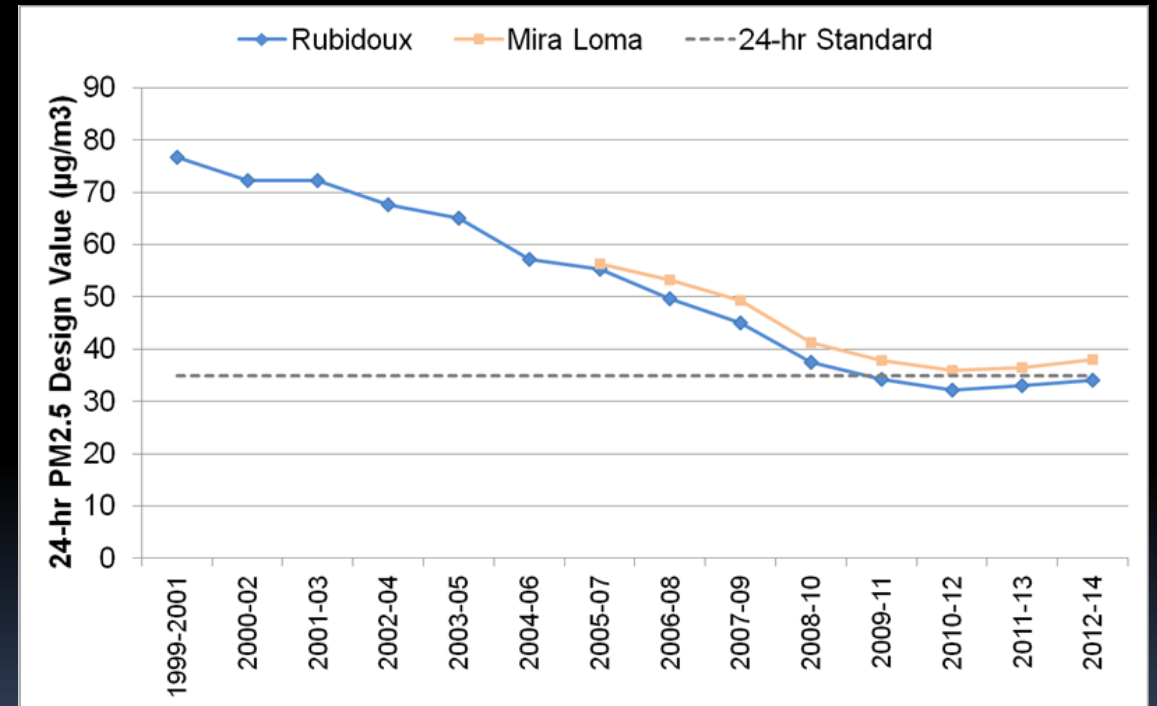
PM2.5 Air Quality, 2000-2014

Annual Arithmetic Mean (AAM), $\mu\text{g}/\text{m}^3$



Basin 24-hour PM_{2.5} Trends

- Only Mira Loma exceeds 24-hour PM_{2.5} standard
- Long-term trend suggested 2014/2015 attainment
- Impact of drought/reduced frequency of fall/winter rain events
 - ✓ Below average rainfall in 2013
 - ✓ Rain events only 44 % of normal for January and February 2014



Latest 24-hour PM_{2.5} Data

- All 2014 Data has been finalized
 - ✓ Still attaining previous annual PM_{2.5} standard of 15 µg/m³
 - ✓ 2012 - 2014 3-year 24-hour PM_{2.5} design value = 38 µg/m³ > NAAQS
- Preliminary 2015 Data
 - ✓ Drought conditions persist – No rain days in January 2015
 - ✓ Multiple days exceeding the NAAQS observed in January and February
 - ✓ 3-year and single year design values already > 35 µg/m³
- If data is finalized as is, U.S. EPA will “Bump” Basin to a Serious Non-attainment Area classification

PM2.5 Panel Discussion

- Panel topics
 - ✓ Rule progress achieving direct PM2.5 reductions
 - ✓ Findings in PM2.5 Controls White Paper
 - ✓ Commercial restaurant control
 - ✓ Ammonia and SOx control
 - ✓ Potential funding opportunities
- After panel presentations, open for audience
- Encourage visit to Exhibit Hall (GB) and vehicle displays