

NO₂/NO_x In-Stack Ratio (ISR)

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Why Start Collecting Data?

- Why did the District start collecting NO₂ data?
 - In 2010 the NO₂ NAAQS was lowered to below the state standard (188 vs. 339 µg/m³)
 - Performs ~80 permit modeling runs / month
 - ~5-15% required NAAQS/CAAQS determinations
 - non-PSD sources
 - Projects above NAAQS/CAAQS
 - Need for new option in modeling
 - » Required NO₂ ratio data



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Challenges – Data Collection

- No data was readily available
- Assume data provided by agencies was acceptable
- Use data from literature searches
- Use of hand held sampler data
- Limited in house source test data
 - Not required to report NO or NO₂ separate from NOx



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Challenges – Data Processing

- How do you combine data collected
 - By source type
 - By fuel type
 - By control type
 - By regional location
- How do you average the data
 - When you have multiple test
 - Different averaging periods
 - Minute / Hourly / Average Over Test Period



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Understanding Limitations

- Quality of the data
- Sources covered by the data
- How to apply it to modeled sources



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How Do We Move Forward

- Plans for collecting NO/ NO₂ data and supporting EPA's ISR efforts
 - Require all new PSD sources to report NO, NO₂, and NO_x separately.
 - Require all new non-PSD sources to report NO, NO₂, and NO_x separately.
 - For sources which are required to perform stack testing and
 - Test equipment provides for speciation.



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Contact Information

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