

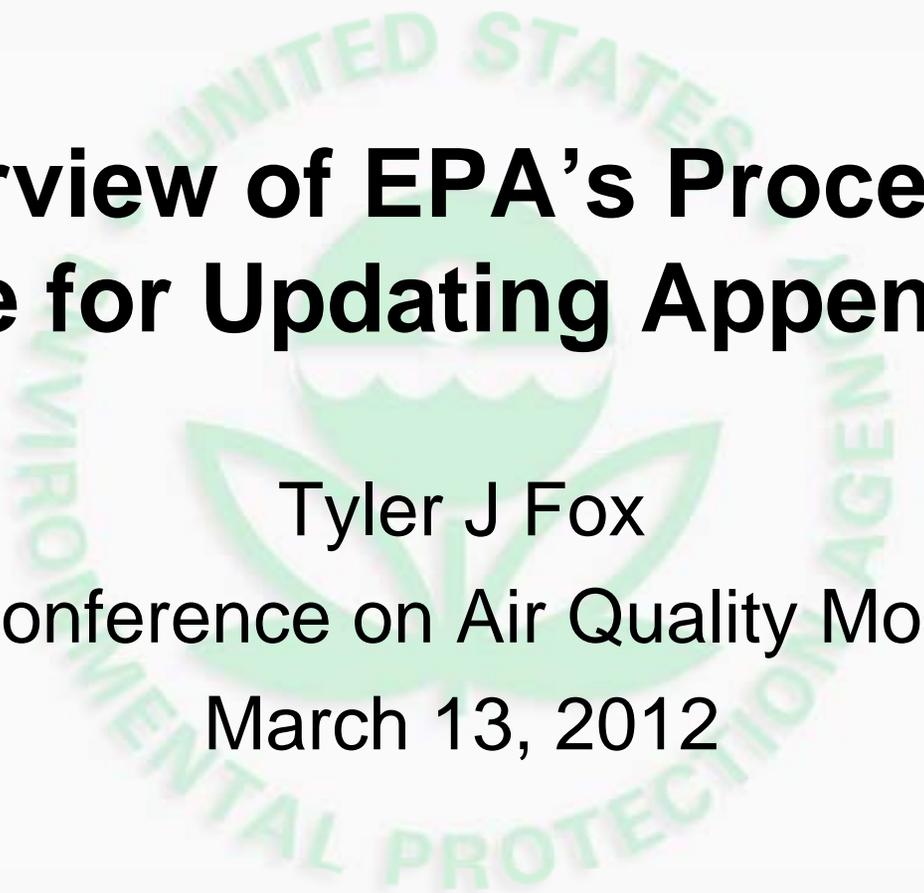


# **Overview of EPA's Process & Scope for Updating Appendix W**

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## Focus of this Modeling Conference = Scope

- Current Regulatory Models: Status and Updates
- Permit modeling of PM<sub>2.5</sub>, post-PM<sub>10</sub> surrogacy policy
- Challenges of modeling under new 1-hour NO<sub>2</sub> and SO<sub>2</sub> NAAQS
- Emerging models & techniques to account for chemistry for long-range transport and O<sub>3</sub> and secondary PM<sub>2.5</sub> impacts



## Current Regulatory Models

- Improvements to model formulation?
  - We discussed a number of issues on Tuesday, others to consider as well?
- Suitability of current model performance evaluations for their regulatory purpose?
- Additional field study evaluations?
- Use of prognostic data?
  - Guidance or codify in rulemaking?



## Challenges of modeling 1-hour NO<sub>2</sub> and SO<sub>2</sub> NAAQS

- Changes due to new form and averaging time
  - Emissions variability?
  - Treatment of intermittent sources
- NO<sub>2</sub> 3-Tiered Screening Approach
  - Updates to Ambient Ratio Method (ARM)?
  - Refined model status for OLM and/or PVMRM?
  - New refined modeling technique?



## Emerging models & techniques to address long-range transport & chemistry

- EPA/FLMs putting forth statement on program needs and an evaluation paradigm for LRT and chemistry models
- Providing model intercomparisons and evaluations to inform process of viable models and techniques for assessing single-source impacts on ozone and secondary PM<sub>2.5</sub>
- Look to work with various model developers as move forward with IWAQM Phase 3 effort.



## Process for Updating Appendix W

- Last update to Appendix W was in 2005 with promulgation of AERMOD
- Next update officially starts now with 10<sup>th</sup> Modeling Conference
- Expect to discuss proposed rulemaking at 11<sup>th</sup> Modeling Conference in 3 years
- What happens between now and then?
  - Good question



## Between Now and Then

- EPA will take into account public comments from 10<sup>th</sup> Modeling Conference to identify critical and priority items requiring an update to Appendix W.
  - Provide summary of public comments and priorities later in 2012
- Continue our efforts to inform the process and provide information to the community via public reports, journal articles, and workshops/conferences.
- Continue regular, periodic meetings with technical coordination workgroup to promote sharing of information and status of efforts
- Would suggest a “specialty conference” in late 2012 or early 2013 as venue for more detailed discussions and arrange for public session at 2013 R/S/L workshop