

# 2021 **Virtual** Regional, State, and Local Dispersion Modelers' Workshop

## Co-regulatory Roundtable Exchange

EPA MS Teams Online – June 21-23, 2021





# Round Table Discussion – NO<sub>2</sub> Modeling

## EPA RSL Workshop

*U.S. EPA / OAQPS / Air Quality Modeling Group*

*Wednesday, June 23, 2021*

*Chris Owen (US EPA)*



# Potential Discussion Points

- NO<sub>2</sub>/NO<sub>x</sub> in-stack ratios
  - How to determine appropriate values
  - Preference for different sources in the database
  - Need for a temporally varying value in AERMOD
- SIL analyses - appropriate methods for different NO<sub>2</sub> methods
- New alpha options (TTRM and GRSM)
  - What kind of testing is needed
  - How should results from these methods compare to others
- Best practices or lessons learned from permits
- ARM2 – selecting an appropriate minimum ambient ratio





# Round Table Discussion – Intermittent Emissions

## EPA RSL Workshop

*U.S. EPA / OAQPS / Air Quality Modeling Group*

*Wednesday, June 23, 2021*

*George Bridgers (US EPA)*



# Intermittent Emissions Thoughts...

- In June 2010, the Air Quality Modeling Group did not establish an Intermittent Emissions “Policy.”
- Rather, we offered some modeling recommendations / best practices to appropriately address the assessment of emergency equipment in light of the newly established 1-hour NO<sub>2</sub> NAAQS.
- It has been further extended to 1-hour SO<sub>2</sub> and may be applicable for other NAAQS, but likely not appropriate for long-term standards... consult with Regional Office.
- The 2010 clarification memorandum was not developed with consideration of the use of emergency generators at data centers
  - Use of 10s, 100s, and maybe 1000s of emergency generators to provide backup for data centers is problematic... and not necessarily “green.”
  - Monthly generator testing and baseload / generator bank testing can be scheduled and should be appropriately accounted for in a compliance demonstration.