



# Breakout Session Report Out

## Flare Modeling

### EPA RSL Workshop

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

*Wednesday, June 23, 2021*

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# Flare Modeling Breakout Summary

- Initiated session with brief review of computation and application of buoyant fluxes from flares
  - Context was a draft report BOEM is preparing on the Calculation of Pseudo-Parameters for Off-Shore Flare Air Dispersion Modeling
- Extensive discussion around a recent technical memo from the Ontario Ministry of the Environment and Climate Change
  - MODELLING OPEN FLARES
  - <https://www.ontario.ca/page/technical-bulletin-modelling-open-flares-under-oreg-41905>
  - Particular items of note were “standard” assumptions made to model flares, i.e., combustion temperature, exit velocity, importance of stack-tip downwash
- Agreement that some existing pseudo stack parameters may not conserve momentum, should generally only apply one adjustment unless particular attention given to not double-count the impact of flaring
- Multiple statements that a flare option in AERMOD would be valuable
  - Is this a workgroup that any RSLs would be interested in participating in (or leading!)
- ~70 attendees