

2016 FIRES WORKGROUP CHARGE

Draft February 2018

The 2016 Fires workgroup is charged with delivering wildfire, prescribed fires and agriculture burn emissions datasets for use in air quality modeling. In addition, the workgroup is charged with developing technical documentation that describes the methodology used to generate the fire emissions datasets. The workgroup will perform quality assurance of the fire emissions datasets and document any possible improvements that could be made during this year 2016 Emissions Modeling Platform process. Quality assurance will include testing the input of the fire inventory data into the SMOKE modeling system along with the available meteorological data to examine vertical allocation impacts using plume rise algorithm within SMOKE.

Initial materials: Initial materials include draft annual and day-specific year 2016 wildfire, prescribed and agricultural fires inventory in SMOKE format (FF10). These inventory formats are documented here:

- https://www.cmascenter.org/smoke/documentation/4.5/html/ch08s02s08.html#sect_input_ptinv_ff10
- https://www.cmascenter.org/smoke/documentation/4.5/html/ch08s02s06.html#sect_input_ptday_ff10

A copy of the meteorological data available for year 2016 has been sent to LADCO.

Workgroup Organization: The workgroup will be composed of state and EPA staff who have volunteered to review and as necessary improve the fire emissions datasets(s) and the draft documentation to describe the methodologies used to generate the emissions datasets. The workgroup will be led by two leads, one EPA staffer and one state/RPO staffer. As implied by the name, each workgroup member agrees to contribute to the technical development, documentation and/or communication of the final work products. No contractor support is anticipated for workgroup activities. EPA staff at OAQPS are directed to provide data, information and advice to the workgroup as requested.

The workgroup is charged with organizing themselves to meet at least monthly between February and December 2018 to coordinate their work. The workgroup will provide periodic analysis and progress briefings to the 2016 leadership workgroup. Each workgroup should plan to use their own resources to store and share files among themselves. The Fire Emissions workgroup is responsible to the 2016 leadership committee who may revise the charge as needed.

Documentation: The workgroup is charged with documenting the methodologies used to generate the fire emissions datasets, any changes made to the fire emissions datasets during the 2016 Emissions Modeling Platform development, and provide documentation of the review/quality assurance process carried out on the fire emissions dataset(s). Revised data files will not be considered complete without documentation. Documentation will include justification, analysis, workgroup membership and data sources. At the initial meeting the workgroup will designate a single individual to be principally responsible for documentation.

Timeline: The expected timeline for completing the 2016, with interim milestones are as follows:

- February 2018 – Alpha 2016
- Summer 2018 – Beta 2016

- Early 2019 – Version 1 2016