2016 FIRES WORKGROUP CHARGE

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The 2016 Fires workgroup is a voluntary group charged with delivering wildfire, prescribed fires and agriculture burn emissions datasets for use in air quality modeling. In addition, the workgroup is charged with help reviewing existing technical documentation and possibly developing more 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 examining fire inventory data and reports and when possible testing the input of the fire inventory data into the SMOKE modeling system along with the available meteorological data to examine emissions modeling platform issues (e.g. vertical allocation impacts using plume rise algorithm within SMOKE, temporal profiles and speciation profiles).

Initial materials: Initial materials include draft annual and day-specific year 2016 wildfire, prescribed and agricultural fires inventory in SMOKE format (FF10). These inventory data can be found at:

ftp://newftp.epa.gov/Air/emismod/2016/alpha/2016fd/emissions/2016fd_ptagfire.zip

ftp://newftp.epa.gov/Air/emismod/2016/alpha/2016fd/emissions/2016fd_ptfire.zip

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. Initial and future quality assurance reports and maps can be found here:

https://drive.google.com/drive/u/1/folders/1UzUrr93I98mXwbLRSWuuLu5hiHNQwgFW

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 staff and one state/RPO staff. As implied by the name, each workgroup member agrees to review/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 reviewing and 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