**2016 NONROAD WORKGROUP CHARGE**

**Draft March 2018**

The 2016 Nonroad workgroup is charged with delivering working base (2016) and future (2023 and 2028) nonroad emissions datasets for use in air quality modeling for each target date to include at least August 2018 and January 2019. In addition, the initial documentation will be updated to reflect changes to the initial draft materials. If these are not provided by the target dates, the modeling team is directed to proceed with the last complete working set, which, at a minimum, may be the initial EPA draft 2016 nonroad files generated by MOVES2014a. The selected base and future nonroad files will be quality assured by EPA. The files will be named by the workgroup according to a naming convention devised by the 2016 leadership workgroup.

**Initial Materials:** Initial materials include 1) nonroad emissions for 2016 (MOVES2014a output) and 2) any associated documentation. The initial (alpha) inventory is based on 2014NEIv2 inputs that are run for 2016. The emissions and input files are available from EPA:

* 2014 NEI inputs and supporting documentation (nonroad link to be updated with v2 information): <https://www.epa.gov/air-emissions-inventories/2014-national-emissions-inventory-nei-documentation>
* 2016 (alpha) nonroad inventory: <ftp://newftp.epa.gov/Air/emismod/2016/alpha/2016fd/emissions/>

**Base and Future Year Inventory Development:** The workgroup may choose to analyze the initial materials based on MOVES2014a, to identify outliers and anomalies. In addition, the workgroup may identify new sources of input data. Only highly reliable data sources should be considered, with a preference towards publically available data. Workgroup members are invited to share independent nonroad data analyses on monthly coordination calls.

Additionally, EPA intends to release an updated version of MOVES – MOVES2014b – that will improve the nonroad capabilities of the model. MOVES2014b will include new nonroad engine population growth factors, updated Tier 4 nonroad engine population fractions and emission factors, and resolve a bug in the nonroad fuel supply. EPA is targeting a summer 2018 release of MOVES2014b, so that the updated model can be used to build the v1 nonroad inventories and projections. Depending on the timing of the MOVES2014b release, the updated model may be available for use in developing the beta inventory and projections. EPA will share with the workgroup output from EPA’s test runs and analyses to quantify net emissions changes between MOVES2014a and MOVES2014b. In addition to reviewing MOVES2014b testing results, the workgroup will develop a plan for considering new state-supplied input datasets in the context of updated nonroad inventories generated with MOVES2014b.

**Workgroup Organization:** The workgroup will be composed of state and EPA staff who have volunteered to review and, as necessary, improve the draft 2016 MOVES nonroad input files and the draft methodologies to grow and control the inputs. The workgroup will be led by two co-leads, one EPA staffer and on state/RPO staffer: Sarah Roberts (EPA OTAQ) and Joseph Jakuta (Ozone Transport Commission). As implied by the name, each workgroup member agrees to contribute substantially to the technical development, documentation and/or communication of the final work products. No contractor support is anticipated for workgroup activities. EPA staff at OTAQ and 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 2018 and early 2019 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 Nonroad workgroup is responsible to the 2016 leadership committee who may revise the charge as needed.

**Documentation:** The workgroup is charged with providing documentation for the 2016 and future year nonroad inventory development process and data, including documenting any changes to the initial draft 2016 inventory. Revised data files will not be considered complete without documentation. Documentation will be based on the Inventory Collaborative [Specification Sheet Format](https://docs.google.com/document/d/1udlLo-osF3ZXHasLnRa11edM8IDER-C90HSpS8wR8rk/edit) and will include data sources, processing, inventory analysis, projection methods, and workgroup membership. The workgroup will designate a single individual to be principally responsible for documentation.

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

* + March 2018 – Alpha 2016
  + July 2018 – Beta 2016 with projections to 2023 2028
  + Early 2019 – 2016 v1.0 with projections to 2023 and 2028

Because MOVES runs must be performed following any revisions to the input files, the MOVES nonroad input files will need to be developed approximately two months before a version of the outputs can be generated and reviewed.