

Appendix VIII

2017 Interim Year Emissions Inventory

The interim inventory is an emission inventory selected between the attainment inventory and the maintenance inventory to demonstrate that emissions are not anticipated to spike above the NAAQS during the maintenance period. The interim inventory chosen for this redesignation request is 2017. The 2017 interim year emissions inventory for the New Jersey portion of the Northern New Jersey-New York-Connecticut (NNJ-NY-CT) Nonattainment Area is included as Attachment 1. The 2017 interim year emissions inventory for the New Jersey portion of the Southern New Jersey-Philadelphia (SNJ.-Phila.) Nonattainment Area is included as Attachment 2.

The 2017 interim year emissions inventory was prepared with the support of the Mid-Atlantic Regional Air Management Association (MARAMA) and its contractors, AMEC Environment and Infrastructure and SRA International, Inc. A copy of the Technical Support Document¹ prepared by AMEC and SRA for MARAMA is included as Attachment 3.

The 2017 interim year emissions inventory includes emissions projections for the following sectors:

- EGU Point Sources
- NonEGU Point Sources
- Stationary Area Sources
- Nonroad Mobile Sources
- Onroad Mobile Sources

The 2017 interim year emissions estimates for onroad mobile sources are interpolated values based on MARAMA MOVES (Motor Vehicle Emissions Simulator Model) results for 2007 and 2025.

New Jersey updated the wildfire emissions in the 2017 MARAMA inventory, consistent with the wildfire update to the 2007 inventory discussed in Appendix V. New Jersey maintained the existing growth factor and projected no growth from wildfires from 2007 to 2017, as was done previously, but from a different base 2007 emissions.

¹ AMEC and SRA for MARAMA. Technical Support Document for the Development of the 2017/2020 Emission Inventory for Regional Air Quality Modeling in the Northeast/Mid-Atlantic Region Version 3.3. AMEC Environment and Infrastructure and SRA International, Inc for Mid-Atlantic Regional Air Management Association (MARAMA), January 23, 2012.

The 2017 MARAMA New Jersey inventory varies slightly from the 2007 and 2025 New Jersey inventories contained in this SIP revision and discussed in Appendices V and VI for the following reasons:

- The New Jersey 2025 SIP inventory for 2025 was adjusted to incorporate a conservative rule effectiveness factor for the New Jersey rules (most specifically low sulfur fuel and boilers) to reduce anticipated emission reductions. This is discussed in more detail in Appendix VI.
- The New Jersey 2007 and 2025 SIP inventories were adjusted to incorporate updated pleasure craft emissions based on the latest state specific information.