File descriptions

* In all AERMOD input files, coordinates for sources and receptors are in UTM coordinates, UTM zone 11 (see TITLETWO of AERMOD input files for UTM zone)
* All sources with run a reference emission rate of 10,000 tons/year
* MMIF\_AERMET\_2020\_33.881N\_118.220W.SFC and MMIF\_AERMET\_2020\_33.881N\_118.220W.PFL are meteorological inputs for all sources listed here.
  + From 12-km WRF runs processed in the MMIF pre-processor and then through AERMET

**Folder heavy\_duty\_onroad**

aermod\_G040R098.inp

* AERMOD input file for 4-km heavy duty on-network onroad sources
* 4 km sources are run as AREAPOLY sources
* Receptors are gridded 1-km receptors
* Hourly emissions are in file G040R098\_hourly.dat
* Outputs are monthly POSTFILES by source group
  + Annual concentrations calculated in post-processing

**Folder nonroad**

aermod\_G040R098.inp

* AERMOD input file for 12-km nonroad emissions
* 12 km source are run as AREAPOLY source
* Receptors are gridded 1-km receptors
* Emissions vary by hour of day
* Outputs are monthly POSTFILES
  + Annual concentrations calculated in post-processing

**Folder point**

aermod\_2121911.inp

* AERMOD input file for Independent Ink Inc
* One 10x10 m area source and one point source
* Emissions vary by month
* 3,729 census block receptors modeled in the AERMOD run (out to 5 km from the facility)
* 9,890 gridded 1-km receptors modeled in the AERMOD run
* 0 monitors modeled in the AERMOD run (out to 5 km from facility)
* 183,553 census block receptors and 28 monitors will be interpolated from 5-50 km from the source
  + Contained in interpolate\_recs\_2121911.txt
    - File format
      * Receptor type (2=census block receptor, 3=monitor)
      * Receptor ID (if block, census block ID, if monitor, monitor ID)
      * Receptor counter 1
      * Receptor counter 2
      * CMAQ column and row of receptor
      * X-coordinate in Lambert Conformal projection (CMAQ projection)
      * y-coordinate in Lambert Conformal projection (CMAQ projection)
      * UTM x-coordinate
      * UTM y-coordinate
      * Integer flag indicating if receptor within 10 km of facility