

MCC Dispersion Modeling File Nomenclature

The AERMOD dispersion modeling files in support of the MCC PSD permit application include the MCC project emissions associated with four criteria pollutants (CO, NO_x, PM₁₀, and SO₂). Because of the different cases (operating scenarios) modeled each case included either a 2 or 3 in the file nomenclature corresponding to case 2 or case 3.

For example, the annual case 2 NO_x modeling file for the 1987 year of meteorological data was labeled as mcc2dn87.inp with an associated output file *.out, and plotfiles (*.ann for the annual averaging period). The identifier for each pollutant was n for NO_x, c for CO, p for PM₁₀, and s for SO₂. Each year of the five year meteorological record was modeled separately and identified as such (87, 88, 89, 90, 91). Plotfiles and maxifiles were output to better identify source culpability and extent of impacts.

For the two separate SO₂ short-term averaging periods (3-hour and 24-hour) individual runs were completed and the file descriptor used were mc2ds3?.inp and mc2ds4?.inp for the 3-hour and 24-hour emission rate modeling assessments respectively.