

## 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<sub>x</sub>, PM<sub>10</sub>, and SO<sub>2</sub>). 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<sub>x</sub> 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<sub>x</sub>, c for CO, p for PM<sub>10</sub>, and s for SO<sub>2</sub>. 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 SO<sub>2</sub> 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.