



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Office of Air Quality Planning and Standards
Research Triangle Park, North Carolina 27711

February 23, 1984

MEMORANDUM

SUBJECT: Region VII Use of MPTERU for St. Louis Municipal Incinerators

FROM: Joseph A. Tikvart, Chief
Source Receptor Analysis Branch (MD-14)

TO: Carl M. Walter, Chief
Air Branch, Region VII

As you requested in your memorandum of January 25, 1984, we have reviewed the comparison you provided between the MPTERU and RAM models as applied to the St. Louis Municipal Incinerators. We paid particular attention to the highest annual concentration, and the highest and high second-high concentrations for the one-hour, three-hour, and 24-hour averaging times, for each of the five years from 1973 through 1977. All values checked were identical for both models. We conclude that you have made a satisfactory demonstration of the equivalence of MPTERU and RAM for the St. Louis Municipal Incinerators.

You have determined that elevated terrain, above stack base but below stack top, is an important factor that must be considered in this analysis. The method of treating terrain in MPTERU is the same as that in EPA's recommended CRSTER model. We have also received your memorandum of February 15, 1984, verifying that the area around both incinerators has been classified "urban" using the recommended procedure. Thus we concur with your selection of MPTERU as the most appropriate model for this application.

cc: S. Reinders
R. Rhoads
D. Wilson

bcc: Regional Modeling Contact, Regions I-X

