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

April 12, 1988



MEMORANDUM

SUBJECT: Carbon Monoxide Hot Spot Modeling in New Jersey

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

TO: William S. Baker, Chief
Air Programs Branch, Region II

In response to your request, the Model Clearinghouse has reviewed the draft protocol you proposed for the State of New Jersey to use to justify the redesignation of five cities to attainment for carbon monoxide. We consider this draft to be a set of priniciples for developing a protocol rather than an actual protocol. In general, the principles set forth in the draft are consistent with current modeling policy which is not likely to change in the next six months. However, in preparing the final protocol, some additions and clarifications to the draft are needed. These additions/clarifications are described below.

1. The protocol should define "critical intersections" (e.g. by highest traffic volumes or V/C ratios). Once defined, the guiding principle should be to show all critical intersections are in attainment, not that a representative sample of critical intersections is in attainment.

2. Baseline estimates will be for 1987 or 1988. Some projections should be performed to ensure that maintenance of the NAAQS is provided. EPA's proposed post-87 policy would require 10 years.

3. The draft is vague on the determination of background carbon monoxide concentrations, receptor placement, and meteorological data. Each of these areas needs to be specified in greater detail in a final protocol. Additional sources of guidance include Volume 9 and the Hot Spot Guidelines.

We look forward to receiving for review a detailed protocol that incorporates these additions/clarifications. If you have any questions, please contact Tom Braverman of my staff at FTS 629-5383.

cc: T. Braverman
R. Vogel
D. Wilson