



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

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MEMORANDUM

SUBJECT: Use of CALINE4

FROM: Richard G. Rhoads, Director
Monitoring and Data Analysis Division (MD-14)

TO: David P. Howekamp, Director
Air Management Division, Region IX

Our staffs have met to discuss the use of CALINE4, in lieu of our current guidance, to calculate air quality impacts from roadways. That guidance recommends the use of CALINE3, linked with emissions calculations from "Volume 9 procedures," when intersections are being considered. It is my understanding that the main issue is the calculation of emissions; OAQPS and OMS staffs have significant reservations about the procedures used in CALINE4. On the other hand, the Volume 9 procedures are not computerized and thus are cumbersome.

We have been in regular contact with FHWA concerning their policy on the use of CALINE4; that policy appears to be somewhat ambivalent. Also, we had considered evaluating CALINE4 with several other line source models. However, the data bases available are not sufficient for an independent assessment of that model.

Since there are no pending CO SIPs from California, our staffs agreed that the following actions would be taken to resolve the matter. Mark Wolcott (OMS) has initiated the computerization of the Volume 9 methodology and will tie it to CALINE3. He will also incorporate into Volume 9 the modal emission results from a test program currently underway in Ohio. OAQPS will coordinate the scheduling, review and implementation of this process. Region IX staff will be invited to have an active role in determining the adequacy of the methodology and in fine-tuning it to meet Agency-wide needs. Once the work is completed, our staffs will jointly assess the adequacy of the computerized procedure. At that point we will revisit the CALINE4 issue and develop an appropriate position. Any unresolved meteorological or dispersion concerns will also be addressed at that time. If there are further questions on this matter, please have your staff contact Johnnie Pearson at FTS 629-5690.

cc: D. Calkins J. Tikvart
T. Helms M. Wolcott
J. Pearson

bcc: T. Braverman R. Vogel
K. Golden ✓ D. Wilson

Regional Modeling Contact I-VIII, X