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MEMORANDUM

SUBJECT: Request for a Screening Analysis of Emissions from Sources of Zinc and Zinc Oxide

FROM: John J. Vandenberg
Program Integration and Health Section (MD-12)

TO: Johnnie Pearson, Chief
Model Application Section (MD-14)

THRU: Robert M. Schell, Chief
Program Integration and Health Section (MD-12)

Attached for your review and use are emission estimates developed by the Emissions Standards and Engineering Division (ESED) for sources of zinc and zinc oxide. Four source categories have been modeled for annual zinc concentrations and five source categories have been modeled for annual zinc oxide concentrations using the Human Exposure Model (HEM). The source categories, pollutants, names of facilities with the highest annual pollutant emissions and the annual emissions from these facilities are shown in Table 1. Using the information presented in Table 1, as well as the magnitude of the annual concentrations estimated by the HEM, as indicators of which source categories may be most appropriate for short-term modeling by MDAD, we request that MDAD perform a screening analysis for the plant in each of the following source categories that has the highest annual emissions as presented in Table 1 for the primary smelters, specialty steel and miscellaneous steel source categories for both zinc and zinc oxide emissions. In addition, we request that the basic oxygen furnace source category be analyzed for zinc oxide emissions and the miscellaneous manufacturing source category be analyzed for zinc emissions. We will be open to discussion of alternative suggestions from MDAD on either the choice of source categories to model or on the choice of individual facilities to model.

Attached are the emission parameters for all of the facilities that ESED obtained information on, which includes the emission parameters for the facilities associated with the highest annual emissions.

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Please provide me with a schedule for completion of the screening analysis to enable us to plan the development of our decision package, and contact me (x5519) if you have any comments or questions regarding this request.

1 Attachment

cc: W. Neuffer (MD-13)

TABLE 1. Facilities Associated with the Highest Annual Emissions
for Each Source Category

<u>Source Category</u>	<u>Facility and Emissions (Kg/yr)</u>	
	<u>Zinc</u>	<u>Zinc Oxide</u>
Primary Smelters	AMAX Zinc 25230	St. Joe Resources 239767
Specialty Steel	ARMCO Butler 39690	ARMCO Butler 15813
Misc. Steel	Furnace C 9650	Furnace C 19290
Basic Oxygen Furnace	N/A	Plant 8 29280
Misc. Manufacturing	Flomatic Corp. 16220	Tam Ceramics 882