State of California
AIR RESOURCES BOARD

Resolution 86-1
January 23, 1986

WHEREAS, the Air Resources Board has been directed to carry out an effective research program in conjunction with its efforts to combat air pollution, pursuant to Health and Safety Code Sections 39700 through 39705; and

WHEREAS, an unsolicited research proposal, Number 1341-120, entitled "An Analysis of the Sacramento Valley Experiment," has been submitted by the University of California, Davis;

WHEREAS, the Research Division staff has reviewed and recommended this proposal for approval; and

WHEREAS, the Research Screening Committee has reviewed and recommends for funding:

> Proposal Number 1341-120, entitled "An Analysis of the Sacramento Valley Experiment," submitted by the University of California, Davis, for a total amount not to exceed $23,885.

NOW, THEREFORE, BE IT RESOLVED, that the Air Resources Board, pursuant to the authority granted by Health and Safety Code Section 39703, hereby accepts the recommendation of the Research Screening Committee and approves the following:

> Proposal Number 1341-120, entitled "Analysis of the Sacramento Valley Experiment," submitted by the University of California, Davis, for a total amount not to exceed $23,885.

BE IT FURTHER RESOLVED, that the Executive Officer is hereby authorized to initiate administrative procedures and execute all necessary documents and contracts for the research effort proposed herein in an amount not to exceed $23,885, of which $6,885 is to be provided from State funds and $17,000 is to be provided from funds awarded for this purpose by the United States Environmental Protection Agency.

I hereby certify that the above is a true and correct copy of Resolution 86-1 as adopted by the Air Resources Board.

Harold Holmes, Board Secretary

ITEM NO.:
DATE: January 24, 1986

State of California
AIR RESOURCES BOARD

ITEM: Research Proposal Number 1341-120 entitled "An Analysis of the Sacramento Valley Experiment."

RECOMMENDATION: Adopt Resolution 86-1 approving Proposal Number 1341-120 for funding in an amount not to exceed $23,885.

SUMMARY: The objective of the original study was to determine the sources of pollutants which contribute to visibility degradation and high aerosol concentrations. Possible sources include the Sacramento urban area, agricultural burning, and transport of pollutants from the San Francisco Bay Area.

The purpose of this proposal is to analyze further the aerometric, emissions and meteorological data collected during the intensive period of air monitoring in October 1984 in the Sacramento Valley and Delta areas.

The original field study, conducted in response to requests from Sacramento Valley Air districts, was carried out by NASA, EPA, U. C. Davis and ARB researchers. The NASA facility at Sunnyvale contributed an airborne laboratory that provided aerometric measurements aloft at no cost to ARB. EPA's Environmental Monitoring Systems Laboratory provided, also at no cost to ARB, a LIDAR-equipped aircraft that made aerosol observations throughout the project area. Researchers from U. C. Davis collected aerosol samples which have been analyzed for chemical composition. A team from U. C. Davis and ARB collected detailed surface and winds-aloft data throughout the study area. Detailed data for emissions from agricultural burning have been made available for this period by local air districts.

This additional analysis is intended to provide a quantitative description of the major sources of aerosol in the Sacramento Valley during a period of generally elevated aerosol concentrations. This information will be used by the Board's staff and others to develop air quality management strategies for PM_{10} and related pollutants. The analysis phase proposed here would be funded partly by the U.S. EPA ($17,000) and partly by ARB ($6885).