

State of California

AIR RESOURCES BOARD

Resolution 78-27a

January 24, 1979

WHEREAS, an unsolicited research Proposal Number 808-68 entitled "Transport and Dispersion of Airborne Pollutants in a Mountain Valley System Under Conditions of Stagnation" has been submitted by the California Institute of Technology to the Air Resources Board; and

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

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

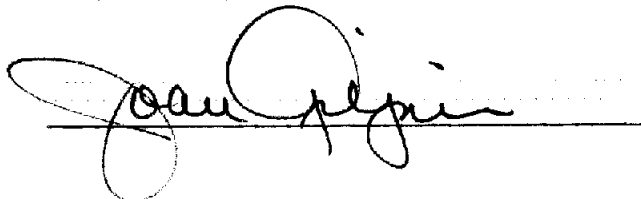
Proposal Number 808-68 entitled "Transport and Dispersion of Airborne Pollutants in a Mountain Valley System Under Conditions of Stagnation" submitted by the California Institute of Technology for an amount not to exceed \$33,105 for this amendment and \$302,991 for the entire study;

NOW, THEREFORE, BE IT RESOLVED, that the Air Resources Board under the powers and authority granted by the Health and Safety Code, Section 39705, hereby accepts the recommendation of the Research Screening Committee and approves the following proposal:

Proposal Number 808-68 entitled "Transport and Dispersion of Airborne Pollutants in a Mountain Valley System Under Conditions of Stagnation" submitted by the California Institute of Technology, for an amount not to exceed \$33,105 for this amendment and \$302,991 for the entire study,

and authorizes the Executive Officer to initiate administrative procedures and to execute all necessary documents and contracts for the research effort proposed in an amount not to exceed \$33,105 for this amendment and \$302,991 for the entire study.

I certify that the above is a true and correct copy of Resolution 78-27a as passed by the Air Resources Board.



A handwritten signature in cursive script, appearing to read "Paul J. Phipps", is written over a horizontal line. The signature is fluid and somewhat stylized.

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- ITEM: Research Proposal No. 808-68, an amendment to Air Resources Board Contract No. A7-170-30 entitled "A Study of the Origin and Fate of Air Pollutants in California's Central Valley".
- RECOMMENDATION: Adopt Resolution 78-27a approving the research listed in Research Proposal 808-68 submitted by the California Institute of Technology for funding in an amount not to exceed \$33,105 for this amendment and \$302,991 for the entire study.
- SUMMARY: The Air Resources Board staff is developing documentation to support the central valley sulfur dioxide control program. Analyses performed by the staff of the Technical Services Division indicate that, during the late winter and early fall, stagnant meteorological conditions result in high sulfate levels over large portions of the San Joaquin Valley. The precursors to this sulfate are believed to originate in the Kern County and drift slowly northward over a period of several days. This amendment, to a contract for a two-year study in the Central Valley now in progress, would provide for additional two SF₆ tracer releases under meteorological conditions specified by the ARB staff. The movement of the tracer material will be used to document flow patterns during periods of high sulfate concentration. The results and an accompanying analysis by staff meteorologists will be issued as an ARB report.