

State of California

AIR RESOURCES BOARD

Resolution 89-14
March 9, 1989

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, a solicited research proposal, Number 1648-145, entitled "Assessment of Ethylene Oxide Concentrations and Emissions from Sterilization and Fumigation Processes," has been submitted by Central Coast Analytical Services; and

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:

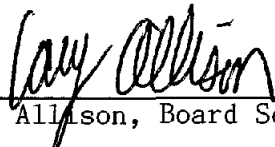
Proposal Number 1648-145, entitled "Assessment of Ethylene Oxide Concentrations and Emissions from Sterilization and Fumigation Processes," submitted by Central Coast Analytical Services, for a total amount not to exceed \$181,792.

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 1648-145, entitled "Assessment of Ethylene Oxide Concentrations and Emissions from Sterilization and Fumigation Processes," submitted by Central Coast Analytical Services, for a total amount not to exceed \$181,792.

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 \$181,792.

I hereby certify that the above is a true and correct copy of Resolution 89-14, as adopted by the Air Resources Board.



Cary Allison, Board Secretary

State of California

AIR RESOURCES BOARD

Resolution 89-15
March 9, 1989

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, a solicited research proposal, Number 1640-145, entitled "Development of a Universally Accepted Test Method for Determination of Volatile Organic Content (VOC) of Paints and Related Coatings," has been submitted by Calcoast Analytical-ITL; and

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 1640-145, entitled "Development of a Universally Accepted Test Method for Determination of Volatile Organic Content (VOC) of Paints and Related Coatings," submitted by Calcoast Analytical-ITL, for a total amount not to exceed \$164,000.

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 1640-145, entitled "Development of a Universally Accepted Test Method for Determination of Volatile Organic Content (VOC) of Paints and Related Coatings," submitted by Calcoast Analytical-ITL, for a total amount not to exceed \$164,000.

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 \$164,000.

I hereby certify that the above is a true and correct copy of Resolution 89-15, as adopted by the Air Resources Board.


Cary Allison, Board Secretary

State of California

AIR RESOURCES BOARD

Resolution 89-17

March 9, 1989

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 1674-145, entitled "Spatial Inhomogeneities in SCAQS Filters" has been submitted by the University of California, Davis and

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:

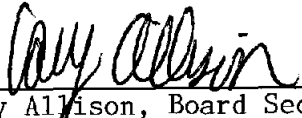
Proposal Number 1674-145, entitled "Spatial Inhomogeneities in SCAQS Filters" submitted by the University of California, Davis, for a total amount not to exceed \$38,265.

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 1674-145, entitled "Spatial Inhomogeneities in SCAQS Filters" submitted by the University of California, Davis, for a total amount not to exceed \$38,265.

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 \$38,265.

I hereby certify that the above is a true and correct copy of Resolution 89-17, as adopted by the Air Resources Board.



Cary Allison, Board Secretary

State of California

AIR RESOURCES BOARD

**Resolution 89-18
March 9, 1989**

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, a solicited research proposal, Number 1668-145, entitled "Secondary Organic Aerosol in the Los Angeles Basin" has been submitted by the Oregon Graduate Center; and

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:

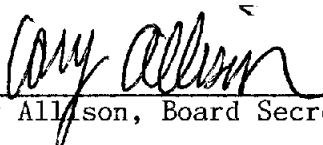
Proposal Number 1668-145, entitled "Secondary Organic Aerosol in the Los Angeles Basin" submitted by the Oregon Graduate Center, for a total amount not to exceed \$55,106.

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 1668-145, entitled "Secondary Organic Aerosol in the Los Angeles Basin" submitted by the Oregon Graduate Center, for a total amount not to exceed \$55,106.

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 \$55,106.

I hereby certify that the above is a true and correct copy of Resolution 89-18, as adopted by the Air Resources Board.



Cary Allison, Board Secretary

State of California

AIR RESOURCES BOARD

Resolution 89-20
March 9, 1989

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, a solicited research proposal, Number 1666-145, entitled "Advanced Receptor Modeling of Data from the Southern California Air Quality Study" has been submitted by the University of Southern California; and

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 1666-145, entitled "Advanced Receptor Modeling of Data from the Southern California Air Quality Study" submitted by the University of Southern California for a total amount not to exceed \$129,280.

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 1666-145, entitled "Advanced Receptor Modeling of Data from the Southern California Air Quality Study" submitted by the University of Southern California for a total amount not to exceed \$129,280.

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 \$129,280.

I hereby certify that the above is a true and correct copy of Resolution 89-20, as adopted by the Air Resources Board.



Cary Allison, Board Secretary

State of California

AIR RESOURCES BOARD

Resolution 89-21
March 9, 1989

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, a solicited research proposal, Number 1665-145, entitled "Southern California Air Quality Study Interpretive Data Analysis: Receptor Modeling" has been submitted by Desert Research Institute; and

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:

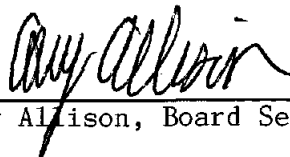
Proposal Number 1665-145, entitled "Southern California Air Quality Study Interpretive Data Analysis: Receptor Modeling" submitted by Desert Research Institute for a total amount not to exceed \$84,927.

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 1665-145, entitled "Southern California Air Quality Study Interpretive Data Analysis: Receptor Modeling" submitted by Desert Research Institute for a total amount not to exceed \$84,927.

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 \$84,927.

I hereby certify that the above is a true and correct copy of Resolution 89-21, as adopted by the Air Resources Board.



Cary Allison, Board Secretary

State of California

AIR RESOURCES BOARD

Resolution 89-23

March 9, 1989

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, a solicited research proposal, Number 1660-145, entitled "Improved Procedures for Quantifying Key Meteorological Effects on Ambient Ozone Data", has been submitted by Systems Applications, Inc.; and

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 1660-145, entitled "Improved Procedures for Quantifying Key Meteorological Effects on Ambient Ozone Data" that has been submitted by Systems Applications, Inc. for a total amount not to exceed \$99,984.

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 1660-145, entitled "Improved Procedures for Quantifying Key Meteorological Effects on Ambient Ozone Data", that has been submitted by Systems Applications, Inc. for a total amount not to exceed \$99,984.

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 \$99,984

I hereby certify that the above is a true and correct copy of Resolution 89-23, as adopted by the Air Resources Board.



Cary Allison, Board Secretary

State of California

AIR RESOURCES BOARD

Resolution 89-24
March 9, 1989

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, a solicited research proposal, Number 1651-145, entitled "Determination of Source Contributions to High Ambient Carbon Monoxide Concentrations and Categorization of Carbon Monoxide Potential", has been submitted by AV Projects Inc.; and

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:

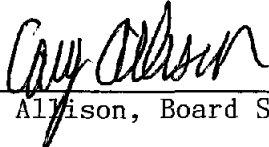
Proposal Number 1651-145, entitled "Determination of Source Contributions to High Ambient Carbon Monoxide Concentrations and Categorization of Carbon Monoxide Potential", submitted by AV Projects Inc. for a total amount not to exceed \$249,429.

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 1651-145, entitled "Determination of Source Contributions to High Ambient Carbon Monoxide (CO) Concentrations and Categorization of Carbon Monoxide Potential", that has been submitted by AV Products Inc. for a total amount not to exceed \$249,429

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 \$249,429.

I hereby certify that the above is a true and correct copy of Resolution 89-24, as adopted by the Air Resources Board.


Cary Allison, Board Secretary

State of California

AIR RESOURCES BOARD

Resolution 89-25

March 9, 1989

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 1674-145, entitled "Structural Modeling of Epidemiological Time Series," has been submitted by the University of California, Davis; and

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:

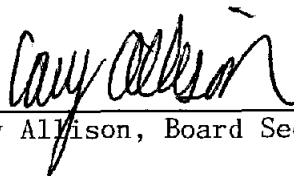
Proposal Number 1674-145, entitled "Structural Modeling of Epidemiological Time Series," submitted by the University of California, Davis, for a total amount not to exceed \$74,628.

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 1674-145, entitled "Structural Modeling of Epidemiological Time Series," submitted by the University of California, Davis, for a total amount not to exceed \$74,628.

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 \$74,628.

I hereby certify that the above is a true and correct copy of Resolution 89-25, as adopted by the Air Resources Board.



Cary Allison, Board Secretary

State of California

AIR RESOURCES BOARD

Resolution 89-26
March 9, 1989

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 1676-145, entitled "A Demonstration of the Effects of Smog on Ornamental and Home Garden Plants," has been submitted by the California Arboretum Foundation; and

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:

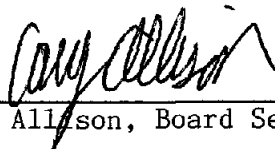
Proposal Number 1676-145, entitled "A Demonstration of the Effects of Smog on Ornamental and Home Garden Plants," submitted by the California Arboretum Foundation, for a total amount not to exceed \$40,811.

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 1676-145, entitled "A Demonstration of the Effects of Smog on Ornamental and Home Garden Plants," submitted by the California Arboretum Foundation, for a total amount not to exceed \$40,811.

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 \$40,811.

I hereby certify that the above is a true and correct copy of Resolution 89-26, as adopted by the Air Resources Board.



Cary Allison, Board Secretary

State of California

AIR RESOURCES BOARD

Resolution 89-27
March 9, 1989

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 1638-145, entitled "Crop and Forest Losses from Air Pollutants: An Assessment Program," has been submitted by the University of California, Riverside; and

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 1638-145, entitled "Crop and Forest Losses from Air Pollutants: An Assessment Program," submitted by the University of California, Riverside, for a total amount not to exceed \$97,998.

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 1638-145, entitled "Crop and Forest Losses from Air Pollutants: An Assessment Program," submitted by the University of California, Riverside, for a total amount not to exceed \$97,998.

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 \$97,998.

I hereby certify that the above is a true and correct copy of Resolution 89-27, as adopted by the Air Resources Board.



Cary Allison, Board Secretary

districts pursuant to Health and Safety Code Section 41504 or to take other appropriate action.

BE IT FURTHER RESOLVED that the Board directs the Executive Officer to forward a copy of this resolution to the board of each Valley district.

I hereby certify that the above is a true and correct copy of Resolution 89-28, as adopted by the Air Resources Board.


for Cary Allison, Board Secretary

The lowering of these threshold levels and other revisions to the new source review rules are also consistent with the requirements of the California Clean Air Act;

It is appropriate and necessary to prevent further deterioration of air quality in the Valley that the Valley districts take action to prevent emissions increases which would occur under the current rules from sources whose applications are pending or who may file applications before the districts' permitting rules are amended; and

It is also appropriate and necessary that the Valley districts take any action in light of technical and legal considerations which is available to prevent the significant emissions increases which will result from sources which have been permitted but are not yet constructed or operating.

NOW, THEREFORE, BE IT RESOLVED that the Board hereby directs the Executive Officer to:

Notify the Valley districts pursuant to Health and Safety Code Section 39517 that the revisions to the threshold levels for the BACT and offset requirements and other appropriate amendments to the permitting rules, as proposed by the BCC, should be accomplished by the individual districts more rapidly than proposed by the BCC and in accordance with the most expeditious schedule practicable;

Notify the districts of the Board's concern regarding the emissions increases which would occur under the current rules from new sources which have pending applications or which may file permit applications before the rule amendments take effect and notify the districts to take immediate action to assure that any permits which may be issued to these sources reflect the proposed reduced threshold requirements for BACT and offsets, and to notify the Executive Officer of the actions taken; and

With respect to sources which have been permitted but are not yet constructed or operating, notify the districts to take any action which is available in light of any technical and legal considerations to assure that the permits reflect the proposed reduced threshold requirements for BACT and offsets.

BE IT FURTHER RESOLVED that the Board directs the Executive Officer to monitor the actions of the districts, to return to the Board at its meeting in May 1989 with a report on the district actions, and if any of the districts do not take appropriate and timely action, to present to the Board at that time a recommendation for the Board to act for the district or

facilities in the San Joaquin Valley which showed since 1980 an increase in emissions associated with this growth of 11 tons per day of oxides of nitrogen and one ton per day of fine particulate matter and concluded that the existing permit regulations would not prevent substantial increases in emissions from these facilities in the future;

WHEREAS, under the threshold levels in the current rules of the Valley districts, many stationary sources have been permitted without a requirement for emissions offsets and, in some cases, without a requirement for the application of best available control technology ("BACT");

WHEREAS, the Board has received a petition from the City of Kingsburg and several citizens groups which requests that the Board exercise its oversight authority over the eight San Joaquin Valley air pollution control districts (San Joaquin, Stanislaus, Merced, Madera, Fresno, Kings, Tulare, and Kern; "Valley districts") with respect to this situation;

WHEREAS, the San Joaquin Valley Basinwide Air Pollution Control Council ("BCC") has approved the development of a revised new source review rule for the Valley districts which will contain a threshold for BACT requirements of zero by January 1, 1990, and a threshold for emissions offset requirements of 150 pounds per day (80 for PM-10 and 550 for carbon monoxide) by January 1, 1990, and a threshold of zero by July 1, 1991;

WHEREAS, currently there are pending applications and permit applications for new sources may be filed before the lowered thresholds become effective, and without some further action, the potential exists for substantial emissions from the facilities which may be permitted in this interim period;

WHEREAS, the cumulative impact of the emissions from sources which have been permitted under the current rules of the Valley districts but are not yet constructed or operating will be significant;

WHEREAS, the Board has held a duly noticed public meeting to consider these matters and has heard and considered the comments presented by its staff, the petitioners and other interested persons; and

WHEREAS, the Board finds that:

Emissions from electrical generation facilities and other stationary sources contribute to concentrations of ozone and of particulate matter in excess of state and national ambient air quality standards in the San Joaquin Valley Air Basin;

Evidence exists to support a finding that the existing new source review rules of the eight San Joaquin Valley districts will not prevent significant future emissions increases and thus are not sufficiently effective to provide for the attainment and maintenance of the state ambient air quality standards;

The threshold levels for the BACT and emissions offset requirements in the Valley districts' new source review rules should be lowered to prevent these increases;