State of California

AIR RESOURCES BOARD

Resolution 92-22
April 30, 1992

Agenda Item No.: 92-5-2

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 1948-168, entitled "Air Pollution Mitigation Measures for Airport Related Activities," has been submitted by Energy and Environmental Analysis; 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 1948-168, entitled "Air Pollution Mitigation Measures for Airport Related Activities," submitted by Energy and Environmental Analysis, for a total amount not to exceed $109,909.

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 1948-168, entitled "Air Pollution Mitigation Measures for Airport Related Activities," submitted by Energy and Environmental Analysis, for a total amount not to exceed $109,909.

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 $109,909.

I hereby certify that the above is a true and correct copy of Resolution 92-22, as adopted by the Air Resources Board.

Pat Hutchens

Pat Hutchens, Board Secretary

State of California

AIR RESOURCES BOARD

Resolution 92-23
April 30, 1992

Agenda Item No.: 92-5-2

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 1958-168, entitled "An Objective Classification Procedure for Bay Area Air Flow Types Representing Ozone-Related Source Receptor Relationships," has been submitted by Systems Applications International; 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 1958-168, entitled "An Objective Classification Procedure for Bay Area Air Flow Types Representing Ozone-Related Source Receptor Relationships," submitted by Systems Applications International, for a total amount not to exceed $154,470.

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 1958-168, entitled "An Objective Classification Procedure for Bay Area Air Flow Types Representing Ozone-Related Source Receptor Relationships," submitted by Systems Applications International, for a total amount not to exceed $154,470.

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 $154,470.

I hereby certify that the above is a true and correct copy of Resolution 92-23, as adopted by the Air Resources Board.

Pat Hutchens

Pat Hutchens, Board Secretary

State of California

AIR RESOURCES BOARD

Resolution 92-24
April 30, 1992

Agenda Item No.: 92-5-2

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 1953-168, entitled "The Study of Temporal and Vertical Ozone Patterns at Selected Locations in California," has been submitted by AeroVironment 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 1953-168, entitled "The Study of Temporal and Vertical Ozone Patterns at Selected Locations in California," submitted by AeroVironment Inc., for a total amount not to exceed $104,904.

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 1953-168, entitled "The Study of Temporal and Vertical Ozone Patterns at Selected Locations in California," submitted by AeroVironment Inc., for a total amount not to exceed $104,904.

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 $104,904.

I hereby certify that the above is a true and correct copy of Resolution 92-24, as adopted by the Air Resources Board.

Pat Hutchens

Pat Hutchens, Board Secretary

State of California

AIR RESOURCES BOARD

Resolution 92-25
April 30, 1992

Agenda Item No.: 92-5-2

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 1961-168, entitled "Air Quality Monitoring in Support of Transport Assessment," has been submitted by Sonoma Technology, 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 1961-168, entitled "Air Quality Monitoring in Support of Transport Assessment," submitted by Sonoma Technology, Inc., for a total amount not to exceed $114,890.

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 1961-168, entitled "Air Quality Monitoring in Support of Transport Assessment," submitted by Sonoma Technology, Inc., for a total amount not to exceed $114,890.

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 $114,890.

I hereby certify that the above is a true and correct copy of Resolution 92-25, as adopted by the Air Resources Board.

Pat Hutchens

Pat Hutchens, Board Secretary

State of California

AIR RESOURCES BOARD

Resolution 92-26
April 30, 1992

Agenda Item No.: 92-5-2

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 1974-168, entitled "Study of Real-Time Vehicle Emissions Over Non-FTP Driving Cycles," has been submitted by California State University, Northridge; 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 1974-168, entitled "Study of Real-Time Vehicle Emissions Over Non-FTP Driving Cycles," submitted by California State University, Northridge, for a total amount not to exceed $343,579.

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 1974-168, entitled "Study of Real-Time Vehicle Emissions Over Non-FTP Driving Cycles," submitted by California State University, Northridge, for a total amount not to exceed $343,579.

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 $343,579.

I hereby certify that the above is a true and correct copy of Resolution 92-26, as adopted by the Air Resources Board.

Pat Hutchens

Pat Hutchens, Board Secretary

State of California

AIR RESOURCES BOARD

Resolution 92-27
April 30, 1992

Agenda Item No.: 92-5-2

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 1966-168, entitled "Development of an Off-Highway Mobile Source Emissions Model," has been submitted by Energy and Environmental Analysis, 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 1966-168, entitled "Development of an Off-Highway Mobile Source Emissions Model," submitted by Energy and Environmental Analysis, Inc., for a total amount not to exceed $126,773.

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 1966-168, entitled "Development of an Off-Highway Mobile Source Emissions Model," submitted by Energy and Environmental Analysis, Inc., for a total amount not to exceed $126,773.

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 $126,773.

I hereby certify that the above is a true and correct copy of Resolution 92-27, as adopted by the Air Resources Board.

Pat Hutchens

Pat Hutchens, Board Secretary

State of California

AIR RESOURCES BOARD

Resolution 92-28
April 30, 1992

Agenda Item No.: 92-5-2

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 1969-168, entitled "Feasibility and Demonstration of Network Simulation Techniques for Estimation of Emissions in a Large Urban Area," has been submitted by Deakin, Harvey, Skabardonis, 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 1969-168, entitled "Feasibility and Demonstration of Network Simulation Techniques for Estimation of Emissions in a Large Urban Area," submitted by Deakin, Harvey, Skabardonis, Inc., for a total amount not to exceed $125,161.

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 1969-168, entitled "Feasibility and Demonstration of Network Simulation Techniques for Estimation of Emissions in a Large Urban Area," submitted by Deakin, Harvey, Skabardonis, Inc., for a total amount not to exceed $125,161.

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 $125,161.

I hereby certify that the above is a true and correct copy of Resolution 92-28, as adopted by the Air Resources Board.

Pat Hutchens

Pat Hutchens, Board Secretary

State of California

AIR RESOURCES BOARD

Resolution 92-29
April 30, 1992

Agenda Item No.: 92-5-2

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 1975-168, entitled "Project MOHAVE: Pollution Transport from Southern California," has been submitted by the National Oceanic and Atmospheric Administration; 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 1975-168, entitled "Project MOHAVE: Pollution Transport from Southern California," submitted by the National Oceanic and Atmospheric Administration, for a total amount not to exceed $100,000.

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 1975-168, entitled "Project MOHAVE: Pollution Transport from Southern California," submitted by the National Oceanic and Atmospheric Administration, for a total amount not to exceed $100,000.

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 $100,000.

I hereby certify that the above is a true and correct copy of Resolution 92-29, as adopted by the Air Resources Board.

Pat Hutchens

Pat Hutchens, Board Secretary

State of California

AIR RESOURCES BOARD

Resolution 92-30
April 30, 1992

Agenda Item No.: 92-5-2

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 interagency research proposal, Number 1984-169, entitled "Sierra Cooperative Ozone Impact Assessment Study (Year 3)," 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 1984-169, entitled "Sierra Cooperative Ozone Impact Assessment Study (Year 3)," submitted by the University of California, Davis, for a total amount not to exceed $153,662.

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 1984-169, entitled "Sierra Cooperative Ozone Impact Assessment Study (Year 3)," submitted by the University of California, Davis, for a total amount not to exceed $153,662.

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 $153,662.

I hereby certify that the above is a true and correct copy of Resolution 92-30, as adopted by the Air Resources Board.

Pat Hutchens

Pat Hutchens, Board Secretary

State of California

AIR RESOURCES BOARD

Resolution 92-31
April 30, 1992

Agenda Item No.: 92-5-2

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 request for adjunct to Contract No. A932-143, entitled "Methods Development for Quantification of Ozone Transport for California" has been submitted by Sonoma Technology, 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:

> Adjunct to Contract No. A932-143, entitled "Methods Development for Quantification of Ozone Transport in California," submitted by Sonoma Technology Inc., by $17,998 for a total amount not to exceed $441,428.

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:

> Adjunct to Contract No. A932-143, entitled "Methods Development for Quantification of Ozone Transport in California," submitted by Sonoma Technology Inc., by $17,998 for a total amount not to exceed $441,428.

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 by $17,998 for a total amount not to exceed $441,428.

I hereby certify that the above is a true and correct copy of Resolution 92-31, as adopted by the Air Resources Board.

Pat Hutchens

Pat Hutchens, Board Secretary

State of California

AIR RESOURCES BOARD

Resolution 92-33
April 30, 1992

Agenda Item No.: 92-5-2

WHEREAS, the Air Resources Board has been directed to design and implement a comprehensive program of research and monitoring of acid deposition in California pursuant to Health and Safety Code Sections 39900 through 39911; and

WHEREAS, an interagency proposal, Number 239-45, entitled "Distribution of Aquatic Animals Relative to Naturally Acidic Waters in the Sierra Nevada," has been submitted by the University of California, Los Angeles; and

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

WHEREAS, the Scientific Advisory Committee on Acid Deposition has reviewed and recommends for funding:

> Proposal Number 239-45, entitled "Distribution of Aquatic Animals Relative to Naturally Acidic Waters in the Sierra Nevada," submitted by the University of California, Los Angeles, for a total amount not to exceed $58,681.

NOW, THEREFORE, BE IT RESOLVED, that the Air Resources Board, pursuant to the authority granted by Health and Safety Code Section 39904, hereby accepts the recommendation of the Scientific Advisory Committee on Acid Deposition and approves the following:

> Proposal Number 239-45, entitled "Distribution of Aquatic Animals Relative to Naturally Acidic Waters in the Sierra Nevada," submitted by the University of California, Los Angeles, for a total amount not to exceed $58,681.

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 $58,681.

I hereby certify that the above is a true and correct copy of Resolution 92-33, as adopted by the Air Resources Board.

Pat Hutchens

Pat Hutchens, Board Secretary