State of California

AIR RESOURCES BOARD

Resolution 94-21
April 14, 1994

Agenda Item No.: 94-4-4

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 2140-181, entitled "Reclamation of Automotive Batteries: Assessment of Health Impacts and Recycling Technology" has been submitted by the Acurex Environmental Corporation; 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 2140-181, entitled "Reclamation of Automotive Batteries: Assessment of Health Impacts and Recycling Technology" submitted by the Acurex Environmental Corporation, for a total amount not to exceed $74,580

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 2140-181, entitled "Reclamation of Automotive Batteries: Assessment of Health Impacts and Recycling Technology," submitted by the Acurex Environmental Corporation, for a total amount not to exceed $74,580

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 $74,580.

I hereby certify that the above is a true and correct copy of Resolution 94-21, as adopted by the Air Resources Board.

Pat Hutchens

Pat Hutchens, Board Secretary

State of California

AIR RESOURCES BOARD

Resolution 94-24
April 14, 1994

Agenda Item No.: 94-4-4

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 2155-181, entitled "Planning, Coordination, and Field Management of the 1996 Southern California Ozone Monitoring Program," has been submitted by the 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 2155-181, entitled "Planning, Coordination, and Field Management of the 1996 Southern California Ozone Monitoring Program," submitted by the Desert Research Institute, for a total amount not to exceed $199,997.

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 2155-181, entitled "Planning, Coordination, and Field Management of the 1996 Southern California Ozone Monitoring Program," submitted by the Desert Research Institute, for a total amount not to exceed $199,997.

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 exceed $199,997.

I hereby certify that the above is a true and correct copy of Resolution 94-24, as adopted by the Air Resources Board.

Pat Hutchens

Pat Hutchens, Board Secretary

State of California

AIR RESOURCES BOARD

Resolution 94-26
April 14, 1994

Agenda Item No.: 94-4-4

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 research proposal, Number 2127-180, entitled "Development of a Meteorological and Air Quality Information System for the Greater San Joaquin Valley," has been submitted by the California State University, Chico 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 2127-180, entitled "Development of a Meteorological and Air Quality Information System for the Greater San Joaquin Valley," submitted by the California State University, Chico Foundation, for a total amount not to exceed $49,885.

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 2127-180, entitled "Development of a Meteorological and Air Quality Information System for the Greater San Joaquin Valley," submitted by the California State University, Chico Foundation, for a total amount not to exceed $49,885.

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 $49,885.

I hereby certify that the above is a true and correct copy of Resolution 94-26, as adopted by the Air Resources Board.

Pat Hutchens

Pat Hutchens, Board Secretary

State of California

AIR RESOURCES BOARD

Resolution 94-27
April 14, 1994

Agenda Item No.: 94-4-4

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 2153-181, entitled "Characterization and Control of Organic Compounds Emitted from Air Pollution Sources," has been submitted by the California Institute of Technology; 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 2153-181, entitled "Characterization and Control of Organic Compounds Emitted from Air Pollution Sources," submitted by the California Institute of Technology, for a total amount not to exceed $392,789.

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 2153-181, entitled "Characterization and Control of Organic Compounds Emitted from Air Pollution Sources," submitted by the California Institute of Technology, for a total amount not to exceed $392,789.

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 $392,789.

I hereby certify that the above is a true and correct copy of Resolution 94-27, as adopted by the Air Resources Board.

Pat Hutchens

Pat Hutchens, Board Secretary

State of California

AIR RESOURCES BOARD

Resolution 94-28
April 14, 1994

Agenda Item No.: 94-4-4

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 2158-181, entitled "Development and Field Test of a Two-Dimensional Vertically Scanning Ozone Lidar," has been submitted by the Environmental Technologies Laboratory of 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 2158-181, entitled "Development and Field Test of a Two-Dimensional Vertically Scanning Ozone Lidar," submitted by the National Oceanic and Atmospheric Administration, for a total amount not to exceed $110,482.

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 2158-181, entitled "Development and Field Test of a Two-Dimensional Vertically Scanning Ozone Lidar," submitted by the National Oceanic and Atmospheric Administration, for a total amount not to exceed $110,482.

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 $110,482.

I hereby certify that the above is a true and correct copy of Resolution 94-28, as adopted by the Air Resources Board.

Pat Hutchens

Pat Hutchens, Board Secretary

State of California

AIR RESOURCES BOARD

Resolution 94-29
April 14, 1994

Agenda Item No.: 94-4-4

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 2157-181, entitled "Pulmonary Macrophage Release of Inflammatory Cytokines After Multi-day Exposure to Ozone and Nitric Acid," has been submitted by the University of California, San Francisco; 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 2157-181, entitled "Pulmonary Macrophage Release of Inflammatory Cytokines After Multi-day Exposure to Ozone and Nitric Acid," submitted by the University of California, San Francisco, for a total amount not to exceed $57,998.

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 2157-181, entitled "Pulmonary Macrophage Release of Inflammatory Cytokines After Multi-day Exposure to Ozone and Nitric Acid," submitted by the University of California, San Francisco, for a total amount not to exceed $57,998.

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 $57,998.

I hereby certify that the above is a true and correct copy of Resolution 94-29, as adopted by the Air Resources Board.

Pat Hutchens

Pat Hutchens, Board Secretary

State of California

AIR RESOURCES BOARD

Resolution 94-30
April 14, 1994

Agenda Item No.: 94-4-4

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, a sole source research proposal, Number 257-51, entitled "A Critical Assessment of the Health Effects of Atmospheric Acidity," has been submitted by New York University; 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 257-51, entitled "A Critical Assessment of the Health Effects of Atmospheric Acidity," submitted by New York University, for a total amount not to exceed $69,419.

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 257-51, entitled "A Critical Assessment of the Health Effects of Atmospheric Acidity," submitted by New York University, for a total amount not to exceed $69,419.

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 $69,419.

I hereby certify that the above is a true and correct copy of Resolution 94-30, as adopted by the Air Resources Board.

Pat Hutchens

Pat Hutchens, Board Secretary

State of California

AIR RESOURCES BOARD

Resolution 94-31
April 14, 1994

Agenda Item No.: 94-4-4

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, a sole source research proposal, Number 261-52, entitled "California Acid Deposition Monitoring Program Data Validation and Analysis," has been submitted by Charles Blanchard; 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 261-52, entitled "California Acid Deposition Monitoring Program Data Validation and Analysis," submitted by Charles Blanchard, for a total amount not to exceed $14,900;

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 261-52, entitled "California Acid Deposition Monitoring Program Data Validation and Analysis," submitted by Charles Blanchard, for a total amount not to exceed $14,900.

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 $14,900.

I hereby certify that the above is a true and correct copy of Resolution 94-31, as adopted by the Air Resources Board.

Pat Hutchens

Pat Hutchens, Board Secretary

State of California

AIR RESOURCES BOARD

Resolution 94-32
April 14, 1994

Agenda Item No.: 94-4-4

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 research proposal, Number 258-52, entitled "Evaluation Study of Nitric Acid Measurement of CADMP Sampler," 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 Scientific Advisory Committee on Acid Deposition has reviewed and recommends for funding:

> Proposal Number 258-52, entitled "Evaluation Study of Nitric Acid Measurement of CADMP Sampler," submitted by the University of California, Riverside, for a total amount not to exceed $104,803.

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 258-52, entitled "Evaluation Study of Nitric Acid Measurement of CADMP Sampler," submitted by the University of California, Riverside, for a total amount not to exceed $104,803.

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 $104,803.

I hereby certify that the above is a true and correct copy of Resolution 94-32, as adopted by the Air Resources Board.

Pat Hutchens

Pat Hutchens, Board Secretary

State of California

AIR RESOURCES BOARD

Resolution 94-33
April 14, 1994

Agenda Item No.: 94-4-4

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 research proposal, Number 262-52 entitled "Atmospheric Deposition to Agricultural Soils," 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 Scientific Advisory Committee on Acid Deposition has reviewed and recommends for funding:

> Proposal Number 262-52, entitled "Atmospheric Deposition to Agricultural Soils," submitted by the University of California, Riverside, for a total amount not to exceed $9,904.

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 262-52, entitled "Atmospheric Deposition to Agricultural Soils," submitted by the University of California, Riverside, for a total amount not to exceed $9,904.

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 $9,904.

I hereby certify that the above is a true and correct copy of Resolution 94-33, as adopted by the Air Resources Board.

Pat Hutchens

Pat Hutchens, Board Secretary

State of California

AIR RESOURCES BOARD

Resolution 94-34
April 14, 1994

Agenda Item No.: 94-4-4

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 research proposal, Number 259-52, entitled "Modification of Ozone Effects by Acidic Particles," has been submitted by the University of California, San Francisco; 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 259-52, entitled "Modification of Ozone Effects by Acidic Particles," submitted by the University of California, San Francisco, for a total amount not to exceed $97,000.

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 259-52, entitled "Modification of Ozone Effects by Acidic Particles," submitted by the University of California, San Francisco, for a total amount not to exceed $97,000.

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 $97,000.

I hereby certify that the above is a true and correct copy of Resolution 94-34, as adopted by the Air Resources Board.

Pat Hutchens

Pat Hutchens, Board Secretary

State of California

AIR RESOURCES BOARD

Resolution 94-35
April 14, 1993

Agenda Item No.: 94-4-4

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 research proposal, Number 260-52, entitled "Atmospheric Acidity Protection Program Assessment Workshop," has been submitted by the University of California, Irvine; 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 260-52, entitled "Atmospheric Acidity Protection Program Assessment Workshop," submitted by the University of California, Irvine, for a total amount not to exceed $46,476.

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 260-52, entitled "Atmospheric Acidity Protection Program Assessment Workshop," submitted by the University of California, Irvine, for a total amount not to exceed $46,476.

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 $46,476.

I hereby certify that the above is a true and correct copy of Resolution 94-35, as adopted by the Air Resources Board.

Pat Hutchens

Pat Hutchens, Board Secretary