

State of California

AIR RESOURCES BOARD

Resolution 94-40  
June 9, 1994

Agenda Item No. 94-6-4

**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 2135-181, entitled "Solvent Cleaning/Degreasing Source Category Emission Inventory," has been submitted by E.H. Pechan and Associates; 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 2135-181, entitled "Solvent Cleaning/Degreasing Source Category Emission Inventory," submitted by E.H. Pechan and Associates, for a total amount not to exceed \$174,175.

**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 2135-181, entitled "Solvent Cleaning/Degreasing Source Category Emission Inventory," submitted by E.H. Pechan and Associates, for a total amount not to exceed \$174,175.

**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 \$174,175.

I hereby certify that the above is a true and correct copy of Resolution 94-40, as adopted by the Air Resources Board.

*Pat Hutchens*  
Pat Hutchens, Board Secretary

State of California

Air Resources Board

Resolution 94-41  
June 9, 1994

Agenda Item No. 94-6-4

**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 2149-181, entitled "Study to Redefine Cold- and Hot-Start Emissions," has been submitted by the GM Powertrain Division, GMC.

**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 2149-181, entitled "Study to Redefine Cold- and Hot-Start Emissions," submitted by GM Powertrain Division, GMC, for an amount not to exceed \$549,577.

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

Proposal Number 2149-181, entitled "Study to Redefine Cold- and Hot-Start Emissions," submitted by the GM Powertrain Division, GMC, for an amount not to exceed \$549,577.

**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 \$549,577.

I hereby certify that the above is a true and correct copy of Resolution 94-41, as adopted by the Air Resources Board.

*Pat Hutchens*  
Pat Hutchens, Board Secretary

State of California

AIR RESOURCES BOARD

Resolution 94-42  
June 9, 1994

Agenda Item No. 94-6-4

**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 2129-181, entitled "Cardiovascular Effects of Controlled Ozone Exposure in Cardiac Patients," submitted by the Los Amigos Research and Education 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 2129-181, entitled "Cardiovascular Effects of Controlled Ozone Exposure in Cardiac Patients," submitted by the Los Amigos Research and Education Institute, for a total amount not to exceed \$247,588.

**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 2129-181, entitled "Cardiovascular Effects of Controlled Ozone Exposure in Cardiac Patients," submitted by the Los Amigos Research and Education Institute, for a total amount not to exceed \$247,588.

**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 \$247,588.

I hereby certify that the above is a true and correct copy of Resolution 94-42, as adopted by the Air Resources Board.

*Pat Hutchens*  
Pat Hutchens, Board Secretary

State of California

AIR RESOURCES BOARD

Resolution 94-43  
June 9, 1994

Agenda Item No. 94-6-4

**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 2161-182, entitled "Prototype Demonstration of CHA NOx Removal Process for Treatment of Diesel Engine Exhaust," has been submitted by Sacramento Municipal Utility District; 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 2161-182, entitled "Prototype Demonstration of CHA NOx Removal Process for Treatment of Diesel Engine Exhaust," submitted by Sacramento Municipal Utility District, for a total amount not to exceed \$15,000.

**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 2161-182, entitled "Prototype Demonstration of CHA NOx Removal Process for Treatment of Diesel Engine Exhaust," submitted by Sacramento Municipal Utility District, for a total amount not to exceed \$15,000.

**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 \$15,000.

I hereby certify that the above is a true and correct copy of Resolution 94-43, as adopted by the Air Resources Board.

  
Pat Hutchens, Board Secretary

**State of California**

**AIR RESOURCES BOARD**

Resolution 94-44  
June 9, 1994

Agenda Item No. 94-6-4

**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 2159-182, entitled "Industrial Surface Coatings - Wood-Furniture and Fixtures Emission Inventory Development," 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 2159-182, entitled "Industrial Surface Coatings - Wood-Furniture and Fixtures Emission Inventory Development," submitted by the University of California, Davis, for a total amount not to exceed \$120,137.

**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 2159-182, entitled "Industrial Surface Coatings - Wood-Furniture and Fixtures Emission Inventory Development," submitted by the University of California, Davis, for a total amount not to exceed \$120,137.

**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 \$120,137.

I hereby certify that the above is a true and correct copy of Resolution 94-44, as adopted by the Air Resources Board.

  
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Pat Hutchens, Board Secretary

State of California

AIR RESOURCES BOARD

Resolution 94-45  
June 9, 1994

Agenda Item No. 94-6-4

**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 2160-182, entitled "Coating Operations Test Method and Method Development Survey," 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 2160-182, entitled "Coating Operations Test Method and Method Development Survey," submitted by the University of California, Davis, for a total amount not to exceed \$101,779.

**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 2160-182, entitled "Coating Operations Test Method and Method Development Survey," submitted by the University of California, Davis, for a total amount not to exceed \$101,779.

**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 \$101,779.

I hereby certify that the above is a true and correct copy of Resolution 94-45, as adopted by the Air Resources Board.

*Pat Hutchens*  
Pat Hutchens, Board Secretary

**State of California**

**AIR RESOURCES BOARD**

Resolution 94-46  
June 9, 1994

Agenda Item No. 94-6-4

**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 266-53, entitled "A Review of Nitric Acid Measurements by TDLAS," has been submitted by 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 266-53, entitled "A Review of Nitric Acid Measurements by TDLAS," submitted by University of California, Riverside, for a total amount not to exceed \$32,129;

**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 266-53, entitled "A Review of Nitric Acid Measurements by TDLAS," submitted by University of California, Riverside, for a total amount not to exceed \$32,129.

**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 \$32,129.

I hereby certify that the above is a true and correct copy of Resolution 94-46, as adopted by the Air Resources Board.

  
Pat Hutchens, Board Secretary

State of California

AIR RESOURCES BOARD

Resolution 94-47  
June 9, 1994

Agenda Item No. 94-6-4

**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 265-53, entitled "Further Evaluation of a Two-Week Sampler for Acidic Gases and Fine Particles," has been submitted by 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 265-53, entitled "Further Evaluation of a Two-Week Sampler for Acidic Gases and Fine Particles," submitted by University of California, Riverside, for a total amount not to exceed \$141,086;

**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 265-53, entitled "Further Evaluation of a Two-Week Sampler for Acidic Gases and Fine Particles," submitted by University of California, Riverside, for a total amount not to exceed \$141,086.

**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 \$141,086.

I hereby certify that the above is a true and correct copy of Resolution 94-47, as adopted by the Air Resources Board.

*Pat Hutchens*  
Pat Hutchens, Board Secretary



State of California

AIR RESOURCES BOARD

Resolution 94-48  
June 9, 1994

Agenda Item No. 94-6-4

**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 264-53, entitled "Evaluation of a Sampling Methodology for Acidic Species," has been submitted by 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 264-53, entitled "Evaluation of a Sampling Methodology for Acidic Species," submitted by University of California, Riverside, for a total amount not to exceed \$311,767;

**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 264-53, entitled "Evaluation of a Sampling Methodology for Acidic Species," submitted by University of California, Riverside, for a total amount not to exceed \$311,767.

**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 \$311,767.

I hereby certify that the above is a true and correct copy of Resolution 94-48, as adopted by the Air Resources Board.

*Pat Hutchens*  
Pat Hutchens, Board Secretary