
Air



Air Programs Reports and Guidelines Index

AIR PROGRAMS REPORTS AND GUIDELINES INDEX

U.S. Environmental Protection Agency
Office of Air and Radiation
Office of Air Quality Planning and Standards
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AIR PROGRAMS REPORTS AND GUIDELINES INDEX

The Air Programs Reports and Guidelines Index is a compilation of selected air pollution control documents published by EPA in the past several years. It is primarily intended for use by officials of State and local air pollution control agencies. It lists current guidance documents that these agencies may find helpful in conducting their air quality management programs.

The Index is generally organized in terms of sections of the Clean Air Act; the sections are further divided into subject areas. Cross references have been held to a minimum in order to keep the Index concise and easily usable.

A sizeable number of documents included in the Index are technical support documents for new source performance standards and hazardous pollutant standards. The technical information therein may be helpful to agencies in implementing such standards and making control technology decisions.

This is the fourth update since the Index was first published in February 1983. Newly included in this update is an Appendix with information on current air pollution control projects that are funded under section 105 of the Clean Air Act.

Distribution is being made to EPA Headquarters and Regional Offices and officials of State and local air pollution control agencies. EPA is interested in any suggestions that users of the Index may have to improve the usefulness of the document. Such suggestions may be sent to Bill Hamilton, U.S. EPA, MD-15, Research Triangle Park, N.C. 27711.

The majority of the reports listed in the Index will be available for a nominal fee from the National Technical Information Service, 5285 Port Royal Road, Springfield, Virginia 22161. [Telephone Number: (FTS) 737-4650; Commercial (703) 487-4650.] For those reports listed in the Appendix that were funded under section 105 of the Clean Air Act, please contact the person whose name appears in the Appendix. These reports are generally not available from NTIS or from other EPA sources.

Users of this Index should also be aware of the existence of other publications and services, in particular the EPA Publications Bibliography. This document is broader in scope than the Index and contains information on EPA publications in all areas of activity, not only air pollution control. In addition, the EPA Publications Bibliography may contain air pollution control document citations not included in the Air Programs Reports and Guidelines Index. Another useful aspect of the Bibliography is that it contains report abstracts. Copies of the EPA Publications Bibliography are available in EPA Headquarters and Regional Office Libraries. Refer to the following page for more information on this subject.

RE: AIR POLLUTION PUBLICATIONS INFORMATION

The Environmental Protection Agency does not maintain a mailing list for its air pollution publications and no longer publishes either the Air Pollution Technical Publications of the U.S. EPA or Air Pollution Abstracts.

We would like to direct your attention to the following publications and services.

Air Pollution Titles: A Guide to the Current Air Pollution Literature. A current awareness service covering a wide variety of articles recently published on topics relating to air pollution. It is issued bi-monthly. Contact:

Center for Air Environment Studies
226 Fenske Laboratory
University Park, PA 16802
Tel.: (814) 865-1415 (FTS: 455-1415)

EPA Publications Bibliography. Contains citations, abstracts and indexes to all EPA reports entered into the National Technical Information Service (NTIS). The bibliography is only available from NTIS. It is issued quarterly with an annual cumulation. The subscription fee is \$65. Contact:

National Technical Information Service
5285 Port Royal Road
Springfield, VA 22161
Tel.: (703) 487-4650 (FTS: 737-4650)

A cumulative edition of this bibliography through December 1976 is available from NTIS. The order number is PB-265920. Annual bibliographies from 1977-1983 are also available from NTIS.

Environmental Pollution & Control contains abstracts of most unclassified, federally-funded reports in NTIS category 68 (environmental pollution and control). It appears weekly, has an annual index, costs \$95 per year, and is available from NTIS (see address above).

In addition to the above, there are many commercial publications, data bases and information services which are wholly or partially devoted to the subject of air pollution literature or information.



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TECHNICAL ASSISTANCE DOCUMENT: QUALITY ASSURANCE GUIDELINE FOR VISIBLE EMISSION TRAINING PROGRAMS	600/4-83-011	PB83-193656
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USER'S GUIDE FOR HIWAY: A HIGHWAY AIR POLLUTION MODEL	650/4-74-008	PB-239944
CALMS PROCESSOR (CALMPRO) USER'S GUIDE	901/9-84-001	PB84-229467
USER'S INSTRUCTIONS FOR THE SHORTZ AND LONGZ COMPUTER PROGRAMS, VOLUME I	903/9-82-004A	PB83-146100
USER'S INSTRUCTIONS FOR THE SHORTZ AND LONGZ COMPUTER PROGRAMS, VOLUME II: APPENDIX A THROUGH I	903/9-82-004B	PB83-146092
USER'S NETWORK FOR APPLIED MODELING OF AIR POLLUTION: UNAMAP (VERSION 5)	DF/83-007	PB83-244368
USER'S GUIDE FOR THE CLIMATOLOGICAL DISPERSION MODEL	RA-73-024	PB-274040
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AIR TOXICS

The material included in this section of the Index is only a partial list of the air toxics information available from EPA. For a more complete listing, refer to the publications of the National Air Toxics Information Clearinghouse (NATICH). For more information on NATICH, contact Nancy Riley, U.S. EPA, Mail Drop 12, Research Triangle Park, N.C. 27711.

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 ** NICKEL		
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Regional Office Projects

Region I LOE Coordinator: Paul Bryan (FTS 835-3833)

<u>Title</u>	<u>Project Officer</u>
Program Support for Data Handling Systems (EIS, AQDHS) in State Agencies.	Sam Colon-Velez
Purchase of Hi-Vol Filters for Use by Air Control Agencies. Whatman 68-02-3709.	R. C. Rhodes
SIP Codification. Radian 68-02-4310	Willis P. Beal
Grant to STAPPA/ALAPCO.	Betsy Agle
Purchase of Teflon Filters for Use by Air Control Agencies. Membrana, Inc. 68-02-4108.	R. C. Rhodes
Assistance to Certain States in Monitoring for NMOC and Air Toxics in FY 1987.	H. Richter/ S. Nachmann

Region II LOE Coordinator: John Filippelli (FTS 264-2517)

Program Support for Data Handling Systems (EIS, AQDHS) in State Agencies.	Sam Colon-Velez
Purchase of Hi-Vol Filters for Use by Air Control Agencies. Whatman 68-02-3709.	R. C. Rhodes
Purchase of Teflon Filters for Use by Air Control Agencies. Membrana, Inc. 68-02-4108.	R. C. Rhodes
SIP Codification. Radian, 68-02-4310.	Willis P. Beal
Grant to STAPPA/ALAPCO.	Betsy Agle
Assistance to Certain States in Monitoring for NMOC and Air Toxics in FY 1987.	H. Richter/ B. Kelley

Region III LOE Coordinator: Esther Steinberg (FTS 597-8239)

Program Support for Data Handling Systems (EIS, AQDHS) in State Agencies.	Sam Colon-Velez
Purchase of Hi-Vol Filters for Use by Air Control Agencies. Whatman 68-02-3709.	R. C. Rhodes

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Purchase of Hi-Vol Filters for Use by Air Control Agencies. Membrana 68-02-4108.	R. C. Rhodes
SIP Codification. Radian, 68-02-4310.	Willis P. Beal
Grant to STAPPA/ALAPCO.	Betsy Agle
Acid Rain Sample Analysis. Global Geochemistry 68-02-4454.	Berne Bennett
PAWVOH SO ₂ Study--Equipment purchase, Federal Data Corporation, 68-01-7330.	Denis Zielinski

Region IV LOE Coordinator: Wayne Aronson (FTS 257-4901)

Program Support for Data Handling Systems	Sam Colon-Velez
Purchase of Hi-Vol Filters for Use by Air Control Agencies. Whatman 68-02-3709.	R. C. Rhodes
Grant to STAPPA/ALAPCO for Secretariat.	Betsy Agle
Purchase of Teflon Filters for Use by Air Control Agencies. Membrana, Inc. 68-02-4108.	R. C. Rhodes
SIP Codification. Radian, 68-02-4310.	Willis P. Beal
Acid Rain Sample Analysis. Global Geochemistry, 68-02-4454.	Berne Bennett
Compiling a Federal SIP Codification of Tennessee Local SIP's. LPO.	Roger Pfaff
Assistance to Certain States in Monitoring for NMOC and Air Toxics in FY 1987.	H. Richter/J. Thomas

Region V LOE Coordinator: Joe Clesceri (FTS 886-1429)

Program Support for Data Handling Systems (EIS, AQDHS) in State Agencies.	Sam Colon-Velez
Purchase of Hi-Vol Filters for Use by Air Control Agencies. Whatman 68-02-3709.	R. C. Rhodes
Grant to STAPPA/ALAPCO for Secretariat.	Betsy Agle
Purchase of Teflon Filters for Use by Air Control Agencies. Membrana, Inc. 68-02-4108.	R. C. Rhodes

Region V (continued)

SIP Codification. Radian, 68-02-4310.

Willis P. Beal

Professional Services Dr. John Richards.
#446 Training Course and VOC Workshop in
Columbus, Ohio.

Charles Pratt

Assistance to Certain States in Monitoring
for NMOC and Air Toxics in FY 1987.

H. Richter/
Zylstra

Toxic Workshop State/Local Special Toxic
Amendment (State Attendance for Presentation).

J. Clesceri/
M. Trutna

Professional Services Patricia A. Cruz. #446--
Introduction to Air Toxics, Columbus, Ohio.

Charles Pratt

Region VI LOE Coordinator: Karen Alvarez

Program Support for Data Handling Systems
(EIS, AQDHS) in State Agencies.

Sam Colon-Velez

Purchase of Hi-Vol Filters for Use by Air
Control Agencies. Whatman 68-02-3709.

R. C. Rhodes

Purchase of Teflon Filters for Use by Air
Control Agencies. Membrana, Inc. 68-02-4108.

R. C. Rhodes

Grant to STAPPA/ALAPCO.

Betsy Agle

SIP Codification. Radian, 68-02-4310.

Willis P. Beal

Acid Rain Sample Analysis.
Global Geochemistry, 68-02-4454.

Berne Bennett

Anti-Tampering Workshop in Oklahoma City, OK.
Colorado State University.

Mike Zigmond
Karen Alvarez

Professional Services of Northrop Services, Inc.
APTI Courses #464 and #470, El Paso, TX.

Charles D. Pratt

Professional Services of Jorge Dieppa
APTI Courses #464 and #470, El Paso, TX.

Charles D. Pratt

Grant to Colorado State University.
Anti-Tampering Workshop in Dallas, Texas.

Charles D. Pratt

Assistance to Certain States in Monitoring
for NMOC and Air Toxics in FY 1987.

H. Richter/R.Saucedo

Region VII LOE Coordinator: Carol LeValley (FTS 757-2893)

Program Support for Data Handling Systems (EIS, AQDHS) in State Agencies.	Sam Colon-Velez
Purchase of Hi-Vol Filters for Use by Air Control Agencies. Whatman 68-02-3709.	R. C. Rhodes
Purchase of Teflon Filters for Use by Air Control Agencies. Membrana, Inc. 68-02-4108.	R. C. Rhodes
Grant to STAPPA/ALAPCO.	Betsy Agle
SIP Codification. Radian, 68-02-4310.	Willis P. Beal
Assistance to Certain States in Monitoring for NMOC and Air Toxics in FY 1987.	H. Richter/Tripp

Region VIII LOE Coordinator: Lee Hanley (FTS-564-1753)

Program Support for Data Handling Systems (EIS, AQDHS) in State Agencies.	Sam Colon-Velez
Purchase of Hi-Vol Filters for Use by Air Control Agencies. Whatman 68-02-3709.	R. C. Rhodes
Purchase of Teflon Filters for Use by Air Control Agencies. Membrana, Inc. 68-01-4108.	R. C. Rhodes
Grant to STAPPA/ALAPCO.	Betsy Agle
SIP Codification. Radian, 68-02-4310.	Willis P. Beal
Acid Rain Sample Analysis. Global Geochemistry, 68-02-4454.	Berne Bennett
Assistance to Certain States in Monitoring for NMOC and Air Toxics in FY 1987.	H. Richter/Helming

Region IX LOE Coordinator: Carol Sakamoto (FTS 454-8236)

Program Support for Data Handling Systems (EIS, AQDHS) in State Agencies.	Sam Colon-Velez
Purchase of Hi-Vol Filters for Use by Air Control Agencies. Whatman 68-02-3709.	R. C. Rhodes
Grant to STAPPA/ALAPCO for Secretariat.	Betsy Agle

Region IX (continued)

Purchase of Teflon Filters for Use by Air
Control Agencies. Membrana, Inc. 68-02-4108.

R. C. Rhodes

SIP Codification. Radian, 68-02-4310

Willis P. Beal

Assistance to Certain States in Monitoring
for NMOC and Air Toxics in FY 1987.

H.Richter/O'Connor

Toxics Workshop (State attendance for
Presentation State/Local Special Toxic
Amendment).

Region X LOE Coordinator: Dave De Bruyn (FTS 399-4218)

Program Support for Data Handling Systems
(EIS, AQDHS) in State Agencies. (1985 & 1986)

Sam Colon-Velez

Program Support for Data Handling Systems
(EIS, AQDHS) in State Agencies. (1987)

Sam Colon-Velez

Purchase of Hi-Vol Filters for Use by Air
Control Agencies. Whatman 68-02-3709.

R. C. Rhodes

Purchase of Teflon Filters for Use by Air
Control Agencies. Membrana, Inc. 68-02-4108.

R. C. Rhodes

Grant to STAPPA/ALAPCO.

Betsy Agle

SIP Codification. Radian, 68-02-4310

Willis P. Beal

Pocatello, Idaho Carbon Monoxide Study
LPO.

Dave De Bruyn

Incremental Funding for Carbon 14 CO (Woodstove)
Study in Boise, Idaho. PEI 68-02-4406, WA B-9.
Integrated Cancer Project, EMSL

Dave De Bruyn/
Ross Highsmith

Wyndsoft Methow Valley Modeling Project. LPO.

Dave De Bryun

Assistance to Certain States in Monitoring
for NMOC and Air Toxics in FY 1987.

H.Richter/

Regional Office Projects

Region I LOE Coordinator: Paul Bryan (FTS 223-5136)

<u>Title</u>	<u>Project Officer</u>
Development of a Methodology to Evaluate Costs and Impacts of Several Acid Rain Control Strategies in New Hampshire. GCA 68-02-3892, WA 14.	Valentine J. Descamps
NMOC Monitoring Assistance for Certain States in EPA Region I (two sites). Radian 68-02-3889, WA's 12 and 35.	Hal Richter
Receptor Model Study--Augusta, Maine. TRC 68-02-3884, WA 2. (Continuation of TRC 68-02-3514, WA 47).	Marvin Rosenstein
<u>FY 1986</u>	
Preparation of 1985 Data and National Emissions Data System (NEDS) Submittal for Rhode Island (NAPAP). GCA 68-02-3892, WA 24.	Stephen S. Perkins
Dioxin Analysis of Hospital Incinerator Ash. MRI 68-02-3892, WA 12.	Margaret McDonough
NMOC Monitoring Assistance for Certain States in Region I for the Summer of 1986. Radian 68-02-3889, WA 93.	Hal Richter
Determination of Source-Specific RACT for Two Large Bakeries that Emit VOC's in Connecticut. MRI 68-02-3891, WA 16.	Lynne Hamjian
Assistance to Certain States in Monitoring for NMOC and Air Toxics in FY 1987.	H. Richter/ S. Nachmann
Modeling Workshop for Toxic Air Contaminants. TRC 68-02-3886, WA 63. SIB paying.	J. Pollack/ D. Painter

Region II LOE Coordinator: John Filippelli (FTS 264-2517)

TSP Control Strategy and PM ₁₀ Standards Analyses for the Catano Air Basin. PEI Associates, Inc. 68-02-3890, WA 3. (Continuation of 68-02-3512, WA 78)	Vinh Cam
Sampling and Analysis Methodology for the Rapid Field Detection of Adulterated Fuel Oils (Air Emissions). GCA 68-02-3892, WA 6. (Continuation of GCA 68-02-3510, WA 35)	Daniel Sullivan
Gasoline Tank Truck Certification Workshops. PES 68-02-3887, WA 17.	Paul Truchan
Photochemically Reactive Organic Compound (PROC) Emissions from Consumer and Commercial Products. SAIC 68-02-3893, WA 8.	Paul Truchan
Region II Air Trends Report. SAIC 68-02-3893, WA 3.	Robert F. Kelly
NMOC Monitoring Assistance for 3 Sites in New York State in the Summer of 1986. Radian 68-02-3889, WA 93.	Hal Richter
Inspection of Asbestos Demolition/Renovation. PEI 68-02-3890, WA 39.	Robert Fitzpatrick
Control of Techniques for Reducing Emissions of Photochemically Reactive Organic Compounds from Consumer and Commercial Products. SAIC 68-02-3893, WA 29.	Paul Truchan

Region III LOE Coordinator: Dan Ryan (FTS 597-9888)

Allegheny County TSP Emissions Inventory. TRC 68-02-3886, WA 1. Continuation of WA 39, TRC 68-02-3514.	Denis M. Lohman
Pennsylvania Waste Fuel Oil Sampling Project (Air Emissions). ES 68-02-3888, WA 2. Continuation of WA 54, ES 68-02-3509.	David L. Arnold
Development of I/M Audit Program for Pennsylvania. ES 68-02-3888, WA 6. Continuation of WA 75, ES 68-02-3509.	Dan Ryan
DC Gasoline Station Inspections to Assure Compliance with Stage II VOC Vapor Recovery Requirements. ES 68-02-3888, WA 10. Continuation of WA 71, ES 68-02-3509.	Raymond D. Chalmers
Allegheny County SO ₂ Attainment Demonstration. TRC 68-02-3886, WA 9.	Denis Lohman
Dioxin Analysis of Philadelphia Northwest and East Central Incinerators. MRI 68-02-3891, WA 1.	Robert Kramer
Assessment of Maryland Draft Regulations and Guidelines for Air Toxics. Radian 68-02-3889, WA 22.	Paul Racette
Development of Air Emissions Data (I/M) Information System for Pennsylvania DOT. ES 68-02-3888, WA 14.	Dan Ryan
Assistance to Provide State Agency Access to the National CDS System. TRC 68-02-3886, WA 15.	Chuck Miesse
Development of a Seminar/Workshop for "An Introduction to Air Toxics. Radian 68-02-3889, WA 20. (Cost shared with Region VII and MTIB)	Charles Pratt
Presentation of Two Workshops Entitled "An Introduction to Air Toxics." Radian 68-02-3889, WA 33. (Cost shared with Region IX and MTIB)	Leo H. Stander
Interim Meteorological and Modeling Assistance to State of Delaware Division of Environmental Control, Air Resources Section. PEI 68-02-3890, WA 13.	Fran Dougherty
Study of Lead Emissions form Operations of the Associated Lead, Inc. Facility in Philadelphia, Pennsylvania. Radian 68-02-3889, WA 46.	Denis M. Zielinski

Region III (Continued)

<u>Title</u>	<u>Project Officer</u>
Acrylonitrile Source Evaluation in Virginia. GCA 68-02-3892, WA 16.	Paul Racette
Virginia Non-Criteria Pollutant Emissions Inventory. ES 68-02-3888, WA 26.	Cynthia H. Stahl
Development of a Workshop, "Site Specific Source Monitoring and Evaluation for Air Toxics." (Cost shared with Region VII, Region IX, and MTIB) ES 68-02-3888, WA 28.	Charles D. Pratt
NMOC Monitoring Assistance for Certain States in Region III (4 sites). Radian 68-02-3889, WA's 12 and 35.	Hal Richter
Pennsylvania STAR Project--Data Base Refinement and Strategy Development. Radian 68-02-3889, WA 58.	Eileen M. Glen
Interim Meteorological Program Assistance to the Pennsylvania Department of Environmental Resources. TRC 68-02-3886, WA 19.	Fran Dougherty
NMOC Monitoring Assistance for Certain States in Region III. Radian 68-02-3889, WA 35.	Harold G. Richter
Development of a Workshop, "The Changing Managerial Environment for Governmental Administrators. ES 68-02-3888, WA 31.	Ronnie E. Townsend
Dioxin Re-Analysis of One Philadelphia Northwest Incinerator-Sample and Review of Existing Chromatograms from Previously Conducted Sampling. MRI 68-02-3891, WA 7. (Paid for by SASD)	Victor Guide
<u>FY 1986</u>	
Pennsylvania-West Virginia-Ohio (PAWVOH) SO ₂ Study. TRC 68-02-3886, WA 39.	Denis M Zielinski
Allegheny County SO ₂ Attainment Demonstration, Phase II. TRC 68-02-3886, WA 41.	Denis M. Lohman
Allegheny County TSP Emission Inventory. TRC 68-02-3886, WA 42.	Denis M. Lohman

Region III (continued)

5

Title

Project Officer

NMOC Monitoring Assistance for Certain States in
EPA Region III for the Summer of 1986--3 Sites.
Radian 68-02-3889, WA 93.

Hal Richter

Quality Assurance of State of Maryland
1985 NEDS/NAPAP Emission Inventory.
GCA 68-02-3892, WA 32. NAPAP paying cost.

Theodore C. Erdman

Quality Assurance of State of West Virginia
1985 NEDS/NAPAP Emission Inventory.
GCA 68-02-3892, WA 33. NAPAP paying cost.

Theodore C. Erdman

Operation and Maintenance of the Kanawha
Valley Meteorological Network.
PES 68-02-3887, WA 46.

Denis M. Zielinski

Pennsylvania STAR Project--Data Base Refinement
and Strategy Development--Phase II.
Radian 68-02-3889, WA 97.

Eileen M. Glenn

Allegheny County SO₂ Attainment Demonstration.
TRC 68-02-3886, WA 9.

Denis Lohman

Quality Assurance of State of Maryland
1985 NEDS/NAPAP Emission Inventory.
GCA 68-02-3892, WA 32. NAPAP paying cost.

Theodore C. Erdman

Quality Assurance of State of West Virginia
1985 NEDS/NAPAP Emission Inventory.
GCA 68-02-3892, WA 33. NAPAP paying cost.

Theodore C. Erdman

Operation and Maintenance of the Kanawha
Valley Meteorological Network.
PES 68-02-3887, WA 46.

Denis M. Zielinski

Pennsylvania STAR Project--Data Base Refinement
and Strategy Development--Phase II.
Radian 68-02-3889, WA 97.

Eileen M. Glenn

Air Toxics Screening Study at Blue Plains
Wastewater Treatment Plant.
Radian 68-02-3889, WA 102.

Dan Ryan

FY 1987

Permit Tracking System for Norristown Region, PA.
TRC 68-02-3776, WA 61.

Rebecca L. Taggart

Region IV LOE Coordinator: Archie Lee (FTS 597-3286)

Technical Support in the Development of a Revised Ozone SIP for Birmingham, Alabama. PES 68-02-3887, WA 5. Continuation of PES 68-02-3511, WA 58.	Ron McHenry
Revise and Update and Install CDHS and Models in Alabama, Georgia, and Kentucky, Phase II. Engineering Science 68-02-3888, WA 1. Continuation of ES 68-02-3509, WA 67.	Archie Lee
Technical Support in the Development of a Revised Ozone SIP for Atlanta, Georgia. Radian 68-02-3889, WA 7. Continuation of Radian 68-02-3513, WA 65.	Ron McHenry
Development of Part D TSP SIP for Alabama. GCA 68-02-3892, WA 3. Continuation of GCA 68-02-3510, WA 33.	Bruce Miller
Technical Support in the Development of a Revised Ozone SIP for Memphis, Tennessee. PES 68-02-3887, WA 13.	Ron McHenry
Technical Support in the Development of a Revised Ozone SIP for Atlanta, GA. PES 68-02-3887, WA 14.	Ron McHenry
Asbestos Demolition/Renovation Inspection Techniques Workshop. GCA 68-02-3892, WA 9.	Brian Beals
Technical Assistance in the Development of a North Carolina Air Toxics Control Program. Radian 68-02-3889, WA 26.	Doug Cook
Technical Assistance in the North Carolina Study of Issues Related to Offsets Provisions in a State Acid Rain Emission Control Program. Radian 68-02-3889, WA 43.	Archie Lee
Technical Support in the Development of A Revised Carbon Monoxide State Implementation Plan for Dade County, Miami, Florida. Cambridge Systematics 68-02-3894, WA 1.	Thomas P. Lyttle
Develop a Federal Implementation Plan for Control of Lead Sources in Jefferson County, Alabama. ES 68-02-3888, WA 27.	Archie Lee
Tennessee State Acid Rain (STAR) Project. MRI 68-02-3891, WA 6.	Roger Pfaff

Region IV (continued)FY 1986

Kentucky State Acid Rain (STAR) Project. PEI 68-02-3890, WA 22.	Stuart D. Perry
Technical Assistance in the NC Study of Issues Related to Offsets Provisions in a State Acid Rain Emission Control Program (STAR)--Phase II. Radian 68-02-3889, WA 86.	Stuart D. Perry
Fugitive Emission Evaluation at Refined Metals. Radian 68-02-3889, WA 87.	Wayne Aronson
Conduct Workshops on "Effective Permit Writing for PSD, NSR, and Air Toxics." Radian 68-02-3889, WA 85.	Charles D. Pratt
Florida 1985 NEDS Emissions Inventory for the National Acid Precipitation Assessment Program (NAPAP). PES 68-02-3887, WA 35.	Stuart D. Perry/ Dale Pahl
Tennessee 1985 NEDS Emissions Inventory for the National Acid Precipitation Assessment Program (NAPAP). SAIC 68-02-3893, WA 11.	Stuart D. Perry Dale Pahl
South Carolina 1985 NEDS Emissions Inventory for the National Acid Precipitation Assessment Program (NAPAP). PEI 68-02-3890, WA 32.	Stuart D. Perry
Kentucky 1985 NEDS Emissions Inventory for the National Acid Precipitation Assessment Program (NAPAP). PEI 68-02-3890, WA 33.	Stuart D. Perry
NMOC Monitoring Assistance for Certain States in EPA Region IV--2 sites. Radian 68-02-3889, WA 93.	Hal Richter
Technical Assistance in Evaluating Acrylonitrile Emissions from an Acrylonitrile Source. GCA 68-01-2892, WA 26.	Douglas C. Cook
Region IV States Analysis of the Applicability of Stack Height Regulations and Related Documentation. PES 68-02-3887, WA 42.	Archie Lee
Tennessee State Acid Rain Project (STAR)-- Phase 2. MRI 68-02-3891, WA 15.	Stuart Perry
Technical Support in the Development of a Revised Ozone State Implementation Plan for Boone, Campbell and Kenton Counties, KY. Radian 68-02-3889, WA 101.	Thomas P. Lyttle

Region IV (continued)FY 1987

NESHAPS: New Source Permit Review.
PEI 68-02-3890, WA 59.

Brian L. Beals

NESHAPS: Asbestos Demolition and Renovation
Inspection Techniques Workshop in Mississippi.
ATC 68-02-3892, WA 39.

Brian L. Beals

Technical Assistance in Evaluating
Hexachlorocyclopentadiene Emissions at the
Velsicol Facility in Memphis, TN.
ATC 68-02-3892, WA 47.

Melvin Russell

Technical Support in Evaluating Economic
Impact of North Carolina's Proposed Air
Toxics Regulations. Radian 68-02-3889, WA 124.

Melvin Russell

Assessment of Emissions Control Costs for
Municipal Waste Combustors in Region IV.
PES 68-02-3887, WA 78.

Wayne J. Aronson

Region V LOE Coordinator: Joe Clesceri (FTS 886-1429)

Study of Acrylonitrile Emissions at the Uniroyal
Chemical Plant, Painesville, Ohio.
GCA 68-02-3892, WA 5.

Boniface Thayil

NMOC Monitoring Assistance for Certain States
in Region V (one site). Radian 68-02-3889,
WA's 12 and 35.

Hal Richter

Determination of RACT (for VOC) at Plants
Manufacturing Heavy-Duty Off-Highway Vehicles
in Selected Illinois Counties.
PES 68-02-3887, WA 18.

Steven Rosenthal

Estimation of the Cost of Reducing Sulfur
Dioxide Emissions in Ohio--Phase I. (STAR
Project) PEI 68-02-3890, WA 18.

Tim Method

Evaluation of Acrylonitrile Emissions from Two
Facilities in Ohio. GCA 68-02-3892, WA 18.
Paid by OAQPS.

Boniface Thayil

Region V Dioxin Tier 4 Ash Sampling Program.
Radian 68-02-3889, WA 30.

Boniface Thayil

Region V (continued)FY 1986

Lake County, Indiana, TSP Plan Promulgation.
GCA 68-02-3892, WA 23.

Donna Green

Estimation of the Cost of Reducing Sulfur
Dioxide Emissions in Ohio (Phase II) (STAR).
PEI 68-02-3890, WA 26.

Tim Method

1985 NEDS/NAPAP Emissions Inventory Preparation
for Minnesota. NAPAP/AEERL paying.
ES 68-02-3888, WA 48.

Tim Method/
Dale Pahl

NMOC Monitoring Assistance for 2 Sites in
Chicago, Illinois, for the Summer of 1986.
Radian 68-02-3889, WA 93.

Hal Richter

Evaluation of Acrylonitrile and 1, 3-Butadiene
Emissions from Dow Facility, Midland, Michigan.
GCA 68-02-3892, WA 29. Costs paid by Air Toxics
Program.

Maria Shelley

Michigan Statewide Toxic Air Pollutant Source
Inventory. PEI 68-02-3890, WA 50.

Marie Shelley

Class B VOC Source Compliance Program (Indiana).
PEI 68-02-3890, WA 51.

Joseph DiMatteo

Development of a Control Strategy for the
Indiana Glass Company Arsenic Emissions.
PEI 68-02-3890, WA 55. Air Toxics paying.

Harriet Croke

FY 1987

Chicago Area Particulate Matter Emission
Inventory. MRI 68-02-3891, WA 21.

Donna Green

Determination of RACT (for VOC) at Abbott
Laboratories, North Chicago, IL.
PEI 68-02-3890, WA 62.

Steven Rosenthal

Michigan Fugitive Dust Rule Promulgation.
SAIC 68-02-3893, WA 19.

James Dewey

Cuyahoga County Carbon Monoxide Modeling
Study. PEI 68-02-3890, WA 66.

Julia Barrow

Development of a PM₁₀ Emission Inventory
for Control Strategy Development and
Demonstration of Effectiveness in Michigan.
SAIC 68-02-3893, WA 21.

James Dewey

Region V (continued)

Lake County, Indiana, TSP Attainment Demonstration and Control Strategy Development. Alliance Technologies Corporation (ATC), WA 38. (formerly GCA)	Donna Green
1985 NEDS/NAPAP Emissions Inventory Quality Assurance Effort for Region V States. ES 68-02-3888, WA 64.	Carl Nash/Dale Pahl
Preparation of Short-Term and Annual TSP/PM ₁₀ Emission Inventories for Ohio's TSP Nonattainment Areas. PEI 68-02-3890, WA 74.	James Dewey
PM ₁₀ Emission Factor Development for Lake County, Indiana. MRI 68-02-3891, WA 25.	Donna Green
Determination of Major NonCTG RACT at Abbott Laboratories, North Chicago, Illinois. PEI 68-02-3890, WA 77.	Steven Rosenthal
Conduct Training Course APTI 400, "Introduction to Air Toxics" with Updates of Several Critical Lessons. Radian 68-02-3889, WA 111. MTIB is project officer; Region V paying costs.	Charles D. Pratt
Development of an Indiana Control Strategy for Coke Oven By-Product Emissions. MRI 68-02-3891, WA 20.	Harriet Croke
Region V Dioxin Tier 4 Ash Sampling Program. Radian 68-02-3889, WA 30.	Boniface Thayil
Assessment of Emissions Control Costs for Municipal Waste Combustors. PES 68-02-3887, WA 47. Region V ESD paying \$2,500 only toward cost of WA.	Mike Johnston
Literature Review Concerning Air Carcinogen Near Airports. PEI 68-02-3899, WA 69.	John Summerhays
Estimation of Hazardous Air Emissions in Southeast Chicago Contributed by TSDF's. MRI 68-02-3891, WA 22.	Harriet Croke

Region VI LOE Coordinator: Karen Alvarez (FTS 255-7208)

Region VI Arkansas State Compliance Data System Modifications. TRC 68-02-3886, WA 20.	Mary K. Marusak
Region VI Louisiana State Compliance Data System Modifications and Relocation of State System to New State Computer. TRC 68-02-3886, WA 22.	Mary K. Marusak
Region VI Oklahoma State Compliance Data System Installaction. TRC 68-02-3886, WA 23.	Mary K. Marusak
Development of Program and Guides to Facilitate Enforcement of the NESHAP Asbestos Renovation/ Demolition Standard. PEI 68-02-3890, WA 17.	Les Herring
Nitrogen Oxides Monitoring in Lake Charles, Louisiana--Summer 1985. Radian 68-02-3889, WA 50.	Ricardo Saucedo
NMOC Monitoring Assistance in Certain States in EPA Region VI (10 sites). Radian 68-02-3889, WA's 12 and 35.	Hal Richter
Uncertainty Analyses of Estimated Emission Procedures and Emission Control Efficiencies. (STAR). GCA 68-02-3892, WA 19.	Joseph P. Winkler

Region VI (continued)

FY 1986

Development of an Air Permitting Procedures Manual and Permit Reviews for the Louisiana Department of Environmental Quality (LDEQ), Office of Air Quality and Nuclear Energy. Radian 68-02-3889, WA 75. Raymond R. Allen

Conducting Air Pollution Emission Inventories Along the U.S.-Mexico Border. ES 68-02-3888, WA 45. James Yarbrough

Technical Support for Visible Emissions Workshop in Texas. PEI 68-02-3890, WA 30. Raymond Magyar

Region VI New Mexico Compliance Data System Modification of State System. TRC 68-02-3886, WA 38. Mary K. Marusak

Technical Support for Visible Emissions Instruction in Louisiana. PEI 68-02-3890, WA 34. Willie Kelley

Development and Presentation of a Workshop on Troubleshooting of Sulfur Recovery Units. PEI 68-02-3890, WA 35. Willie Kelley

NMOC Monitoring Assistance for Certain States in EPA Region VI--7 Sites. Radian 68-02-3889, WA 93. Hal Richter

Texas Stack Height SIP Revision. SAIC 68-02-3893, WA 13. Joseph Winkler

Assistance to Region VI States to Develop a High Quality National Acid Precipitation Assessment Program (NAPAP) NEDS Emissions Inventory for 1985. Cost to be paid by NAPAP/AEERL. GCA 68-02-3892, WA 30. Joseph Winkler

Ambient Ozone Monitoring in Collin County, Texas. Radian 68-02-3889, WA 95. James Yarbrough

Technical Support for Visible Emissions Workshop in Texas. PEI 68-02-3890, WA 52. Willie Kelley

FY 1987

Louisiana Visible Emission Seminar. SAIC 68-02-3893, WA 18. Willie Kelley

Assistance to New Mexico to Complete NAPAP/NEDS Emissions Inventory Work for 1985. Alliance Technology, 68-02-3892, WA 36. Joseph P. Winkler

Region VI (continued)

Texas and Louisiana NAPAP/NEDS Emissions Inventory Work for 1985. Alliance Technology, 68-02-3892, WA 37.

Joseph P. Winkler

Technical Support for Visible Emissions Workshop in Texas. SAIC 68-02-3893, WA 23.

Raymond Magyar

Region VII LOE Coordinator: Wayne Leidwanger (FTS 757-2893)

Area Source VOC and NO_x Emission Inventory for the Kansas City Metropolitan Area. PES 68-02-3887, WA 1. Continuation of PES 68-02-3511, WA 55.

Dan Wheeler

Data Base for Determining RACT Status of ASARCO's Glover Facility. Radian 68-02-3889, WA 1.

Dewayne Durst

Comprehensive Emissions Inventory for the City of St. Louis. TRC 68-02-3886, WA 12.

Dan Wheeler

Development of a Seminar/Workshop for "An Introduction to Air Toxics." Radian 68-02-3889, WA 20.

Charles Pratt

Evaluation of Reasonably Available Control Measures on Sources of Particulate Matter in St. Joseph, Missouri. TRC 68-02-3886, WA 17.

Dan Wheeler

Carbon Monoxide Plan Revision for Wichita, Kansas. PEI 68-02-3890, WA 10.

Robert J. Chanslor

NESHAP Asbestos Demolition and Renovation Inspections and Evaluation in Region VII. TRC 68-02-3886, WA 18.

JoAnn Heiman

Expert Testimony on Fugitive Dust Control Measures at the Portland Cement Plants in Mason City, Iowa. MRI 68-02-3891, WA 3.

JoAnn Heiman

Convert Kansas Emission Inventory Data into A Format Compatible with EPA's NEDS System. ES 68-02-3888, WA 22.

Robert J. Chanslor

NMOC Monitoring Assistance for Certain States in EPA Region VII (2 sites). Radian 68-02-3889, WA's 12 and 35.

Hal Richter

Comprehensive Continuous Emission Monitoring Reliability and Quality Assurance Assessment for the State of Iowa. SAIC 68-02-3893, WA 2.

Anthony P. Wayne

Region VII (continued)

Iowa Air Toxics Emissions Inventory.
ES 68-02-3888, WA 33.

Robert Chanslor

Development of a Workshop, "Site Specific
Source Monitoring and Evaluation for Air
Toxics. ES 68-02-3888, WA 28.
(Cost \$44,100 shared by SASD, MTIB, Region III,
and Region IX)

Charles D. Pratt

NESHAPs Asbestos Demolition and Renovation
Inspections and Evaluation in Region VII--Phase II.
TRC 68-02-3886, WA 29.

JoAnn M. Heiman

Stage II Vapor Recovery Workshop in St. Louis, MO.
PES 68-02-3887, WA 32

Deann K. Hecht

NAPAP Emissions Inventory Assistance.
MRI 68-02-3891, WA 8. No cost to Region, NAPAP
paying.

Daniel J. Wheeler

Workshop for the Kansas Emissions Inventory System.
Engineering Science 68-02-3888, WA 47.

Robert J. Chanslor

Conduct Workshops on "Effective Permit Writing for
PSD, NSR, and Air Toxics." Radian 68-02-3889,
WA 85. (One-half cost only--Region IV paying same
amount.)

Charles D. Pratt

Expert Testimony on Fugitive Dust Control Measures
at the Portland Cement Plants in Mason City, Iowa.
MRI 68-02-3891, WA 10.

JoAnn M. Heiman

Assessment of the Monsanto Acrylonitrile Solution
in Muscantine, Iowa. PEI 68-02-3890, WA 37.
(Costs being paid by Air Toxics Program.)

Deann K. Hecht

Quality Assurance System for Missouri's
Decentralized I/M Program. PEI 68-02-3890, WA 40.
(Ann Arbor contributing \$10,000 to cost.)

Michael T. Marshall

Kansas Air Toxics Emissions Inventory
PEI 68-02-3890, WA 41.

Robert J. Chanslor

Region VIII LOE Coordinator: Lee Hanley (FTS 564:1753)

Development of Emission Inventory of Air Toxic Pollutants and a Prioritization of Source Categories for Regulations of Toxic Air Pollutants in Colorado. Radian 68-02-3889, 21. Continuation of Radian 68-02-3513, WA 60. Steve Frey

Technical Assistance to EPA Region VIII to Evaluate and Correct Errors in the SAROAD Air Quality Data and Site Files. TRC 68-02-3886, WA 16. Marlin D. Helming

FY 1986

Denver Air Toxics Monitoring (DATS). TRC 68-02-3886, WA 33. Dennis M. Woljan

NMOC Monitoring Assistance for Certain States in EPA Region VIII--4 Sites. Radian 68-02-3889, WA 93. Hal Richter

Region VIII 1985 NEDS Emissions Inventory for the NAPAP Program. GCA 68-02-3892, WA 31. (NAPAP program paying cost of work assignment.) Larry Svobada/
Dale Pahl

Conduct Workshop on "Site Specific Source Monitoring and Evaluation for Air Toxics." Engineering Science 68-02-3888, WA 54. Charles D. Pratt

Presentation of Colorado Toxic Program Development. SAIC 68-02-3893, WA 17. Steve Frey

Assessment of Health Risk from ASARCO Primary Lead Smelter at East Helena, Montana. PEI 68-02-3890, WA 54. Paid by Air Toxics. Jay Sinnott

FY 1987

Assessment of Health Effects from Carbon Monoxide, Denver IEMP. PEI 68-02-3890, WA 78. Paid by OPPE. Steve Frey

Upgrade of Colorado's Emission Inventory System. PES 68-02-3887, WA 77. Paid by OPPE. Steve Frey

Toxic Air Pollutants Emission Inventory and Prioritization of Source Categories for Region VIII. Radian 68-02-3889, WA 105. DeeWitt Baulch

Region VIII (continued)

Technical Support to EPA Region 8 to Develop
and Evaluate an Audit Device for PM₁₀ Samplers.
PEI 68-02-3890, WA 56.

William J. Basbagill

Technical Support to EPA Region 8 to Collect
and Analyze Ambient Samples of VOC, SVOC, and
Aldehydes/Keytones. PEI 68-02-3890, WA 67.
(OPPE paying \$100,000; Region 8 is project officer)

William J. Basbagill

ASARCO--Globe Primary Cadmium Refinery--Assessment
of Health Risk. MRI 68-02-3891, WA 27.
(Air Toxics paying)

DeeWitt Baulch

Region IX LOE Coordinator: Carol Sakamoto (FTS 454-8236)

Survey of On-Site Ponds in the South Coast
AQMD. PES 68-02-3887, WA 3. Continuation
of PES 68-02-3511, WA 53.

Frances Prosser

San Joaquin Valley Modeling Study--Phase I:
Summary of Currently Available Information.
Engineering Science 68-02-3888, WA 3.
Continuation of ES 68-02-3509, WA 69.

William Ryan

Control of VOC Emissions from Use of
Herbicide Oils in Fresno, California.
TRC 68-02-3886, WA 3. Continuation of
TRC 68-02-3514, WA 44.

Kathy Diehl

Technical Assistance on PSD Applications/
Increment Consumption/Modeling.
Engineering Science 68-02-3888, WA 9.
Continuation of ES 68-02-3509, WA 59.

Julie Rose

Evaluating the Effectiveness of Ventura
County's Oilfield Emission Rule 74.10.
Radian 68-02-3889, WA 6. Continuation
of Radian 68-02-3513, WA 59

Gary Lavagnino

Assistance to the Tahoe Regional Planning
Agency to Implement the SIP and Complete
the Nitrate Deposition Study.
Radian 68-02-3889, WA 8. Continuation
of Radian 68-02-3513, WA 56.

Barbara Maco

Region IX (continued)

California Joint Interagency Modeling Study Support. Radian 68-02-3889, WA 23.	David Calkins
Continuous Emission Monitoring Workshop for the State of Nevada. ES 68-02-3888, WA 18.	Gary Lavagnino
Evaluation of the California Biennial I/M Program. Radian 68-02-3889, WA 32.	Douglas Grano
Presentation of Two Workshops Entitled "An Introduction to Air Toxics." Radian 68-02-3889, WA 33. (Cost shared with Region III).	Leo Stander
Continuous Emission Monitoring (CEM) Workshop and Field Audits for the SCAQMD. ES 68-02-3888, WA 19.	Gary Lavagnino
Compilation of Source-Specific Air Toxics Data for Sources in Region IX States. Radian 68-02-3889, WA 49.	Tim Smith
Development of Ventura County Air Quality Management Plan Transportation Control Element. Cambridge Systematics, Inc., 68-02-3894, WA 2.	Wendy Edson
Development of a Workshop, "Site Specific Source Monitoring and Evaluation of Air Toxics." ES 68-02-3888, WA 28.	Charles D. Pratt
Development of an Air Toxics Source Assessment Manual for California Air Pollution Control Districts. ES 68-02-3888, WA 32.	Tim Smith
Air Toxics Emission Inventory Assistance for the San Joaquin Valley. Radian 68-02-3889, WA 56.	Fran Prosser
Collection and Reduction of PM ₁₀ Emissions Inventory Data for Areas Expected to Exceed the PM ₁₀ NAAQS in Arizona. ES 68-02-3888, WA 35.	Duane Ono
VOC Cutback Asphalt Rule Evaluation in California. PES 68-02-3887, WA 19.	Gary Lavagnino
EPA Region 9 Air Quality Effects of Stack Height and Dispersion Techniques on SIP Emission Limitations. PES 68-02-3887, WA 22.	Morris Goldberg

Region IX (continued)

Assistance to Arizona Department of Health Services in Developing an Air Toxics Emission Inventory. Radian 68-02-3889, WA 62.	Tim Smith
California Joint Interagency Modeling Study Analysis. Radian 68-02-3889, WA 64.	David L. Calkins
Transportation Control Measure Evaluation Project. Cambridge Systematics 68-02-4329, WA 1.	Wendy Edson
Photochemically Reactive Organic Compound (PROC) Emissions from Consumer and Commercial Products. SAIC 68-02-3893, WA 8. Region II paying \$32,597.	Paul Truchan
Control of Volatile Organic Compound Emissions from Use of Herbicide Oils in Fresno County, CA--Phase 2. TRC 68-02-3886, WA 35.	Kathy M. Diehl
Support in Accidental Release (Air Toxics). (Region IX paying cost; AEERL Combustion & Energy Division is project officer.) Radian 68-02-3889, WA 84.	William J. Rhodes
Control Strategy Development for the 24-hour PM ₁₀ Standard in Maricopa and Pima Counties, Arizona. Engineering Science 68-02-3888, WA 49.	Duane Ono
Air Toxics Source Assessment Manual for California Air Pollution Control Districts--Development of Ambient Guidelines for Noncancer Effects. Engineering Science 68-02-3888, WA 51.	Tim Smith
Combining Receptor and Dispersion Modeling to Develop a Demonstration PM ₁₀ SIP for Hayden, Arizona. Engineering Science 68-02-3888, WA 52. (SIB paying cost of work assignment.)	Duane Ono/ Ken Woodard
Support to Arizona Air Agencies in Compiling Inventories for Toxic Air Pollutants. Radian 68-02-3889, WA 91.	Tim Smith
Technical Assistance on Prevention of Significant Deterioration Applications/Increment Consumption/Modeling. Engineering Science 68-02-3888, WA 53.	Julie A. Rose
Technical Support to Local Districts in California for the NAPAP Program. (No cost to Region IX; NAPAP paying cost.) GCA 68-02-3892, WA 28.	Frances Prosser
Support in Accidental Release. Radian 68-02-3889, WA 98. (AEERL is project officer.)	T. Kelly Janes

Region IX (continued)

Revise and Prepare Final Exam for Self-Instructional Course SI:454, "Effective Permit Writing for PSD, NSR, and Air Toxics. PEI 68-02-3890, WA 46.

Charles D. Pratt

Present a Workshop on "Inspection and Reporting Requirements for Surface Coating Operations." PEI 68-02-3890, WA 47.

Charles D. Pratt

FY 1987

Technical Support for Preparation of Ambient Air Quality Impact Reports and Letters of Completion--Phase I. ES 68-02-3888, WA 58.

Julie A. Rose

Control of Volatile Organic Compound Emissions from Use of Herbicides in Fresno County, Phase III. TRC 68-02-3886, WA 51

Kathy Diehl

Air Toxics Source Assessment Manual for California Air Pollution Control Districts--Development of Ambient Guidelines for Noncancer Effects--Phase II. ES 68-02-3888, WA 61.

Michael Stenburg

Continuous Emission Monitoring (CEM) Workshop and Field Audit for the SCAQMD. ES 68-02-3888, WA 62.

Vickie Boothe

Inventory for Toxic Air Pollutants (Hawaii). SAIC 68-02-3893, WA 22.

Kathy Diehl

Receptor Modeling for the PM₁₀ Standard in Maricopa and Pima Counties (Arizona). ES 68-02-3888, WA 65.

Duane Ono

Paris/Airshed Modeling for 1984 Santa Barbara Ozone Episodes. ES 68-02-3888, WA 66. (OPAR paying \$20,000 on WA).

Kevin Golden

PM₁₀ Emissions Inventory Refinements for Maricopa County, Arizona. ES 68-02-3888, WA 69.

Karina O'Connor

Workshops for the State of California on Air Pollution Operations and Air Pollution Episode Predictions. ES 68-02-3888, WA 71.

Charles D. Pratt

Region X LOE Coordinator: Dave De Bryun (FTS 399-4218)

Documenting the Available Means for Significantly Reducing Emissions of Lead (and Their Ambient Impact) at the Bunker, Ltd. Lead and Zinc Smelters in Kellogg, ID. PES 68-02-3887, WA 15. David C. Bray

Air Toxics Emissions from Nontraditional Sources in the Puget South Region. ES 68-02-3888, WA 20. Dana Davoli

Air Toxics Emissions Testing in the Puget Sound Region. ES 68-02-3888, WA 21. Dana Davoli

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Development of the Alaska Air Toxics Emission Inventory. Radian 68-02-3889, WA 81. Raymond Nye

Development of a Post-Processor for the SHORTZ Air Quality Model. MDAD is paying \$6,000 toward cost of work assignment. TRC 68-02-3886, WA 36. Robert B. Wilson

Evaluation of Non-Method 5 Source Test Procedures at Four Idaho Facilities. SAIC 68-02-3893, WA 14. Mark T. Masarik

State of Idaho 1985 NEDS Emissions Inventory for the NAPAP Program. NAPAP paying cost of work assignment. GCA 68-02-3892, WA 27. Richard T. White/
Dale Pahl

Update TSP NEDS Emission Inventories and Develop PM₁₀ Emission Inventory for the State of Idaho. GCA 68-02-3892, WA 35. Mark T. Masarik

Comparison of SHORTZ Air Quality Model Estimates with Measured SO₂ Concentrations New March Point, Washington. TRC 68-02-3886, WA 47. Robert B. Wilson

FY 1987

RACT Determination FMC Pocatello, Idaho. PEI 68-02-3890, WA 57. Lee Marshall

Air Quality Modeling Analysis of Major Industrial Point Sources in Everett, Washington. TRC 68-02-3886, WA 59. Robert B. Wilson

Strategies and Air Standards Division

Study of Sources of Cadmium. Radian 68-02-3889, WA 5. (Continuation of 68-02-3513, WA 33)	Ray Morrison
Implementation of the National Air Toxics Information Clearinghouse--Phase II. Radian 68-02-3889, WA 15.	Karen Blanchard
Implementation of the National Air Toxics Clearinghouse--Newsletters and Updates of Reports. Radian 68-02-3889, WA 16.	John Vandenberg
Development of a Seminar/Workshop for "An Introduction to Air Toxics." Radian 68-02-3889, WA 20. Total cost of \$45,473 shared by Regions III and VI and SASD. (Continuation of WA 68, Radian 68-02-3513.)	Charles Pratt
Gasoline Marketing Responses to Comments Information. PES 68-02-3887, WA 12.	David Cleverly
Feasibility of the National Air Toxics Information Clearinghouse Telephone Hotline. Radian 68-02-3889, WA 24.	John Vandenberg
Implementation of the National Air Toxics Information Clearinghouse. Radian 68-02-3889, WA 25.	Karen Blanchard
Investigation of Potential Atmospheric Transformation of Chromium Compounds. Radian 68-02-3889, WA 28.	Karen Blanchard
Source Screen for Chloroprene, Phosgene, Phenol, Propylene Oxide, Acetaldehyde and Acrolein. Radian 68-02-3889, WA 29.	John Vandenberg
Multivariate Statistical Analysis of Airborne Emissions of Polychlorodibenzo-p-dioxins and Polychlorodibenzofurans from Municipal Incinerators. MRI 68-02-3891, WA 2. (MDAD paying cost.)	David Cleverly
Implementation of the Air Toxics Information Clearinghouse--Newsletters and Special Report. Radian 68-02-3889, WA 34.	John Vandenberg
Pollutant Analysis Air Toxics. Radian 68-02-3889, WA 37.	Larry J. Zarzgoza
Source Assessment of Paradichlorobenzene. Radian 68-02-3889, WA 38.	Larry J. Zarzgoza

Strategies and Air Standards Division (Continued)

Development of Improved Toxic Air Pollutant Program Prioritization System. Radian 68-02-3889, WA 39.	Nancy B. Pate
Trace Emissions Risk Assessment for Coal and Oil Combustion. Radian 68-02-3889, WA 41.	Warren Peters
Modify PAB's Human Exposure Model (HEM). Radian 68-02-3889, WA 44--Phase I only.	Michael Dusetzina
Modification of Methodology Use to Estimate Human Exposure to Hazardous Waste Air Emissions from Treatment, Storage, and Disposal Facilities (TSDF). GCA 68-02-3892, WA 15.	Michael Dusetzina
Collect and Evaluate All Ambient Air Monitoring Data Near Treatment, Storage and Disposal Facilities (TSDF). Radian 68-02-3889, WA 48.	Michael Dusetzina
Dioxin Re-Analysis of One Philadelphia Northwest Incinerator-Sample and Review of Existing Chromatograms from Previously Conducted Sampling. MRI 68-02-3891, WA 7. (Region III, ESD, responsible for work assignment, SASD paying.)	Victor Guide
National Impacts Model for RCRA. GCA 68-02-3892, WA 20.	Peter F. Brucato, Jr.
Development of a Workshop, "Site Specific Source Monitoring and Evaluation for Air Toxics." ES 68-02-3888, WA 28. (Sharing cost with MTIB and Region VII)	Charlie Pratt
<u>FY 1986</u>	
Gasoline Marketing Responses to Comments Information. PES 68-02-3887, WA 26.	David H. Cleverly
Municipal Waste Combustion Study--Data Collection Phase. Radian 68-02-3889, WA 65	Rayburn M. Morrison
Implementation of the National Air Toxics Information Clearinghouse--Phase IV. Radian 68-02-3889, WA 66,	Karen L. Blanchard
Implementation of the National Air Toxics Information Clearinghouse--Newsletters and Update of Reports. Radian 68-02-3889, WA 67.	John Vandenberg
Validation of Source Information for 1,3-Butadiene Risk Assessment. Radian 68-02-3889, WA 72.	Ila L. Cote

SASD (continued)

Quality Assurance of HEM Source Information for Ethylene Oxide. Radian 68-02-3889, WA 74.

Nancy Pate

Ranking of the Acute Hazards Lists. Radian 68-02-3889, WA 76.

Ila L. Cote

Implementation of the National Air Toxics Information Clearinghouse--Update of Reports. Radian 68-02-3889, WA 78

Beth M. Hassett

Quality Control of Inputs to Source Information for Chlorinated Organics. Radian 68-02-3889, WA 79.

Larry Zaragoza

Municipal Waste Combustion Study--Methodology Development--Phase II. Radian 68-02-3889, WA 80.

Rayburn M. Morrison

Estimation of Human Exposure and Risks to Air Emissions from Treatment, Storage, and Disposal Facilities (TSDF). GCA 68-02-3892, WA 25.

Michael Dusetsina

Applications of the RTM-III Model to the Southeast. (MDAD paying \$30,000; SASD paying \$60,000.) PEI 68-02-3890, WA 44.

Norman Possiel

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Maintenance of the National Air Toxics Information Clearinghouse Data Base--Part I. Radian 68-02-3889, WA 114.

John J. Vandenberg

Further Development of the National Air Toxics Information Clearinghouse Data Base--Part I. Radian 68-02-3889, WA 115.

John J. Vandenberg

Biological Marker Study for Sources of PCDDs/PCDF's in the Environment. PES 68-02-3887, WA 69.

David H. Cleverly

Development of Waste Volume Data Base at Treatment, Storage and Disposal Facilities Derived from Industrial Studies Data Base. SAIC 68-02-3893, WA 28.

Scott Voorhees

Update a Report on the Air Toxics Problem in the United States (6-Month Study). PES 68-02-3887, WA 71.

John L. McGinnity

Estimation of Human Exposure and Risks to Air Emissions from Treatment, Storage, and Disposal Facilities (TSDF). ATC 68-02-3892, WA 46.

Fred S. Hauchman

SASD (continued)

Summary List of Existing Lists of Chemicals of Concern (Air Emissions). ATC 68-02-3892, WA 48.	Scott Voorhees
Documentation of Human Exposure Modeling for Three Source Categories. ATC 68-02-3892, WA 49.	Karen Blanchard
Data Extraction from State or Local Organizations Records. ATC 68-02-3892, WA 50.	Ila L. Cote
Evaluation of Available Multi-Media Exposure/Risk Models. ATC 68-02-3892, WA 52.	Michael G. Dusetzina
Development of Input Variables for Indirect Exposure Modeling. ATC 68-02-3892, WA 53.	David H. Cleverly
Technical Editing of PAB's Operations Manual. SAIC 68-02-3893, WA 38.	Nancy Riley
Analysis of Potential Emissions of CDD's/CDF's from Wire Reclamation Incinerators in Illinois. MRI 68-02-3891, WA 31.	David H. Cleverly

Monitoring and Data Analysis Division

Emission Inventory Improvement Support for
State Agencies. PES 68-02-3887, WA 4.
(Continuation: PES 68-02-3511, WA 49)

Sue Kimbrough

Review and Development of Revised Emission
Factors, Priority Analysis Profiles, and
Data Base Tracking Procedures.
PES 68-02-3887, WA 7. (Continuation of
PES 68-02-3511, WA 51)

Arch MacQueen

AP-42 Secondary Aluminum and Secondary Copper
and Alloying Data Base Development.
PES 68-02-3887, WA 8. (Continuation of
PES 68-02-3511, WA 48)

Arch MacQueen

Emission Inventory Improvements for State
Agencies. Engineering Science 68-02-3888,
WA 4. (Continuation of ES 68-02-3509, WA 63)

Sue Kimbrough

Program Support and Enhancement for EPA
Regional Office V and the National Acid
Precipitation Assessment Program (NAPAP).
Engineering Science 68-02-3888, WA 5.
(Continuation of ES 68-02-3509, WA 70)

Sue Kimbrough

Development Construction Aggregate Emission
Factors and Testing Protocol.
Engineering Science 68-02-3888, WA 8.
(Continuation of ES 68-02-3509, WA 64)

Jim Southerland

NMOC Monitoring Assistance for Certain States
in EPA Regions I, III, V, VI, and VII.
Radian 68-02-3889, WA 12. (Cost split among
Regions--continuation of Radian 68-02-3513, WA 55.)

Hal Richter

Development of Source and Emissions Data
for Chromium, Ethylene Oxide, and
Epichlorohydrin. Radian 68-02-3889, WA 13.
(Continuation of Radian 68-02-3513, WA 30)

Tom Lahre

Impact of Criteria Pollutant Programs on
Projected Emissions of Selected Toxic
Substances. Radian 68-02-3889, WA 14.

Edwin Meyer

Adequacy and Cost of Air Toxics Emission
Inventories. Radian 68-02-3889, WA 17.

Tom Lahre

Emission Inventory Improvement Support for State
Agencies. GCA 68-02-3892, WA 2. (Continuation
of GCA 68-02-3510, WA 47)

Sue Kimbrough

MDAD (continued)

Demonstrate the Use of Combined Source Apportionment Methods for PM ₁₀ . TRC 68-02-3886, WA 7. (Continuation of TRC 68-02-3514, WA 41)	Tom Pace
Mobile Source Model Evaluation. TRC 68-02-3886, WA 8.	Tom Braverman
Development of Source and Emissions Data for Vinylidene Chloride (VOC) PCB's and Chlorobenzenes. GCA 68-02-3892, WA 4.	Tom Lahre
AP-42 Update for Selected Particle Size Data. Engineering Science 68-02-3888, WA 12. (Continuation of ES 68-02-3509, WA 44)	Arch MacQueen
Develop Plans for Example SIP Modeling-- Revised Particulate NAAQS. PEI 68-02-3890, WA 6.	Tom Braverman
Develop Plans for Example SIP Modeling-- Revised Particulate NAAQA. TRC 68-02-3886, WA 10.	Tom Braverman
Multivariate Statistical Analysis of Airborne Emissions of Polychlorodibenzo-p-dioxins and Polychlorodibenzofurans from Municipal Incinerators. MRI 68-02-3891, WA 2.	David Cleverly
Testing and Revisions to the EPA CMB Model. PEI 68-02-3890, WA 7.	Tom Pace
Modifications to the MASH Model. PEI 68-02-3890, WA 8.	Keith Bauges
Validation and Reconciliation of Receptor Model Source Apportionment. TRC 68-02-3886, WA 13.	Tom Pace
Continued Analysis of an Empirical Data Base and Development and Documentation of a Method to Model In-Pit Surface Coal Mining Air Emissions of TSP. TRC 68-02-3886, WA 14.	Jawad Touma
Refinements to AP-42 Appendices on Generic Particle Size Emission Factors. PEI 68-02-3890, WA 11.	Arch MacQueen
NMOC Monitoring Assistance for Certain States in EPA Regions I, III, IV, VI, and VII. Paid by Regions. Radian 68-02-3889, WA 35.	Hal Richter

MDAD (Continued)

Guidance for Alternative Monitoring Strategy. Radian 68-02-3889, WA 36.	David Lutz
National Dioxin Study Tier 4--Combustion Sources: Project Summary. Radian 68-02-3889, WA 40	William H. Lamason
Revision and Documentation of the ISC Model. TRC 68-02-3886, WA 21.	Russell F. Lee
Develop Procedure for Integration of the MOBILE3 Highway Vehicle Model into the National Emissions Data System Emission Calculation Procedures. GCA 68-02-3892, WA 12.	Charles O. Mann
Locating and Estimating Air Emissions from Sources of Phosgene and Manganese. PEI, 68-02-3890, WA 14.	Thomas F. Lahre
Air Modeling Assessment of Injury to Natural Resources. TRC 68-02-3886, WA 24.	David E. Layland
Program Support and Enhancement for EPA Regional Office V--Phase II. ES 68-02-3888, WA 29.	Sue Kimbrough
Phase I: Example SIP Modeling Guidance--Revised Particulate NAAQS. TRC 68-02-3886, WA 25.	Tom Braverman
Installation of the Stationary Source Emissions Inventory System (SSEIS) Prototype at the NCC for State/Local Agencies Access. TRC 68-02-3886, WA 28.	Sam Colon-Velez
<u>FY 1986</u>	
Document the Procedures for Development of National Air Pollutant Emissions Trends Reports. PES 68-02-3887, WA 25.	Charles O. Mann
Program Support and Enhancement for EPA Regional Office V--Phase III, ES 68-02-3888, WA 38.	Sue Kimbrough
Development of Guidance for Compiling Air Toxics Emission Inventories. ES 68-02-3888, WA 39.	Tom Lahre
Development of Source and Emissions Data for Polycyclic Organic Material (POM). Radian 68-02-3889, WA 71.	Tom Lahre
Revise Receptor Input and Add "Terrain Chopping" Feature to the ISC Model. TRC 68-02-3886, WA 30.	Russell F. Lee

MDAD (continued)

NAPAP Emission Inventory--Modification of NEDS Software. PES 68-02-3887, WA 31.	Sam Colon-Velez
Revise the COMPLEX-I Model. TRC 68-02-3886, WA 32.	Russell F. Lee
Treatment of the Atmospheric Chemistry of VOC Emission from TSDf Sources. PEI 68-02-3890, WA 24.	David E. Layland
Domain Selection of Episode Development for Simulating the Ozone Impact of TSDf Emissions in the Upper Midwest. PEI 68-02-3890, WA 25.	David E. Layland
Revision of Residential Wood Stoves Section of AP-42. ES 68-02-3888, WA 42.	Dallas W. Safriet
Documentation and Support of the AIRS Facility Sybssystem Prototype at the NCC for State Agencies Access. TRC 68-02-3886, WA 34.	Chuck Isbell
Improved Documentation of MASH Model. PEI 68-02-3890, WA 31.	Keith A. Baugues
Revision of the Cement Industry--Source Category Report and AP-42 Section. MRI 68-02-3891, WA 9.	Frank Noonan
National Dioxin Study, Tier 4--Combustion Sources: Engineering Analysis and Test Reports Radian 68-02-3889, WA 82.	W. H. Lamason
Fugitive Dust Emission Factors for AP-42 Chapter 11.2 Update. MRI 68-02-3891, WA 11	Frank M. Noonan
Applications of Models to Air Toxics Impact Assessments. TRC 68-02-3886, WA 40.	David E. Layland
Example SIP Modeling Guidance--Revised Particulate NAAQS. TRC 68-02-3886, WA 37.	Tom Braverman
Application of Data Base to CMB Validation and Reconciliation Protocols (PM ₁₀). TRC 68-02-3886, WA 43.	Tom G. Pace
NMOC Monitoring Assistance for Certain States in EPA Regions I-VI and VIII for the Summer of 1986. Radian 68-02-3889, WA 93.	Harold G. Richter
Toxics Model Evaluation--Phase I. TRC 68-02-3886, WA 45.	Tom Braverman

MDAD (continued)

Development of Source and Emissions Data for Methylene Chloride, Perchloroethylene and Trichloroethylene. Radian 68-02-3889, 94.	William B. Kuykendal
Revisions to the EPA CMB Model and User's Manual. PEI 68-02-3890, WA 38.	Tom G. Pace
Conversion of SAROAD Information to AIRS. PES 68-02-3887, WA 39.	Jacob G. Summers
Model Evaluation for Heavier Than Air Releases. TRC 68-02-3886, WA 46.	David E. Layland
Refinements to Selected AP-42 Sections and Appendix for Particle Size Emission Factors. Engineering Science 68-02-3888, WA 56.	Arch MacQueen
Ozone NAAQS Regional Modeling in the Upper Midwest and Southeast. OPPE paying \$30,000. PEI 68-02-3890, WA 43.	Norman Possiel
Applications of the RTM-III Model to the Southeast. (MDAD paying \$30,000; SASD paying \$60,000.) PEI 68-02-3890, WA 44.	Norman Possiel
Air Quality Modeling Analysis of Municipal Waste Combustors. PEI 68-02-3890, WA 45.	Norman Possiel
Development of Source and Emissions Data for Benzene. Radian 68-02-3889, WA 103.	Wm. B. Kuykendal
Revised Volatile Organic Compound (VOC) Species Data Manual. AEERL paying \$45,000 on cost. Radian 68-02-3889, WA 104.	Wm. B. Kuykendal
Development of Regional Scale Projection Emissions Inventories. GCA 68-02-3892, WA 36.	Norman C. Possiel
PM ₁₀ SIP Example Air Quality Modeling. TRC 68-02-3886, WA 48.	Tom Braverman
Review and Development of Revised Emission Factors for Incineration. MRI 68-02-3891, WA 18.	W. H. Lamason
Fugitive Dust Emission Factors for AP-42 Update (Phase II). MRI 68-02-3891, WA 19.	Frank M. Noonan
Supplementary Documentation for Tier 4 National Dioxin Study. Radian 68-02-3889, WA 107.	Wm. B. Kuykendal

MDAD (continued)

NAPAP Emission Inventory--Support of Modified NEDS Software. PES 68-02-3887, WA 48. NAPAP/AEERL paying.

Sam Colon-Velez

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Review and Analysis of Selected AP-42 Sections, Process Descriptions and Emission Factors and Assessment of Data Bases for Update Priorities. PES 68-02-3887, WA 52.

Arch A. MacQueen

TSDF Ozone Air Quality Regulatory Package. PEI 68-02-3890, WA 60.

David E. Layland

Dispersion Modeling of Toxic Emissions from Treatment Storage and Disposal Facilities for Options Selection Briefing. PEI 68-02-3890, WA 61. (ESED paying cost of WA.)

Gerald L. Gipson

Revise the ISC Model to Treat Receptors Above Ground Level, and to Revise the Building Downwash Algorithm. TRC 68-02-3886, WA 49.

Russell F. Lee

Feed and Grain Elevators and Transfer Operations for AP-42 Chapter 6.4 Update. PES 68-02-3887, WA 54.

Frank M. Noonan

Revision of Example PM₁₀ SIP Modeling Document. TRC 68-02-3886, WA 52.

Thomas N. Braverman

Revision of Residential Wood Stoves Section of AP-42--Phase II. Engineering Science 68-02-3888, WA 59.

Dallas Safriet

Protocol for Participation in the Ambient Toxic Monitoring Program. Engineering Science 68-02-3888, WA 60.

Dallas Safriet

Toxic Releases, Models, and Data Bases Matrices. TRC 68-02-3886, WA 54.

Thomas N. Braverman

Development of Guidance Document on Models for Screening Estimates for Toxics/Hazardous Pollutant Impact. TRC 68-02-3886, WA 56.

Jawad S. Touma

Modeling Clearinghouse Information Storage and Retrieval System. PES 68-02-3887, WA 56.

Jawad S. Touma

Preparation of AP-42 Section: Fiberglass Impregnation and Fabrication Processes. PES 68-02-3887, WA 58.

Arch MacQueen

MDAD (continued)

Evaluation of the EPA CMB Model, User's Manual and Application Protocol. TRC 68-02-3886, WA 57.	Thompson G. Pace
NAPAP Emission Inventory--NEDS Area Source Data Collection/Coding. NAPAP paying cost. PES 68-02-3887, WA 60.	Sue Kimbrough/ Dale Pahl
EPA Monitoring Assistance During Summer 1987 for Certain States in EPA Regions I, II, IV-X. Radian 68-02-3889, WA 121.	Harold G. Richter
Revisions to the MASH Model. PEI 68-02-3890, WA 70.	Keith A. Baugues
Revision to AP-42 Section 1.11, Waste Oil Combustion for PM ₁₀ and Other Pollutants. ATC 68-02-3892, WA 41.	David C. Misenheimer
Development of Source and Emission Data for Polychlorinated Biphenyls (PCB's). ATC 68-02-3892, WA 42.	David C. Misenheimer
Revision to Volume I of Volatile Organic Compound (VOC) Emission Inventory Guidance Document. ATC 68-02-3892, WA 43.	David C. Misenheimer
Develop AIRS User's Guide Volume VII. PES 68-02-3887, WA 63.	Jacob G. Summers
Development of Organic Air Toxics Emissions Data for Storage Tanks. MRI 68-02-3891, WA 24.	Anne A. Pope
Standard Industrial Classification (SIC) Source Category Classification (SCC) Pollutant Crosswalk. PES 68-02-3887, WA 70.	Anne A. Pope
Review and Development of Revised Emission Factors for Incineration--Phase II. MRI 68-02-3891, WA 26.	Wm. H. Lamason, II
Revise the Long-Term Building Downwash Algorithm in the ISCLT Model. TRC 68-02-3886, WA 60.	Russell F. Lee
Compilation and Speciation of National Emission Factors for Consumer/Commercial Solvent Use. SAIC 68-02-3893, WA 35.	Wm. H. Lamason, II
Develop PM ₁₀ Emission Factors. ES 68-02-3888, WA 67.	Arch A. MacQueen

MDAD (continued)

Urban Toxics Issues and Technical Bulletins Development. PES 68-02-3887, WA 73.

James H. Southerland

State and Federal Emission Calculations--PM₁₀. ES 68-02-3888, WA 68.

Charles O. Mann

Develop a Seminar on Urban Air Toxics. PES 68-02-3887, WA 74.

Wm. H. Lamason, II

Modification of NEDS and State Edit Programs (NE1). PES 68-02-3887, WA 75.

Jerry C. Husketh

Area Open Dust Source Gap Filling Emission Factors and Report Evaluations. MRI 68-02-3891, WA 29.

Frank M. Noonan

NEDS Point Source Listing NE-215--Problem Resolution. PES 68-02-3887, WA 76.

Sue Kimbrough

Compilation of Air Toxics Emission Inventory Questionnaires. ES 68-02-3888, WA 72.

Thomas F. Lahre

Data Archiving Protocol Preparation. TRC 68-02-3886, WA 62.

Thomas N. Braverman

Example Work Plan for Urban Air Toxics. SAIC 68-02-3893, WA 39

Wm. H. Lamason, II

Emission Calculations for PM₁₀. PES 68-02-3887, WA 79.

Jerry C. Husketh

Dispersion Modeling of Toxic Emissions from Treatment Storage and Disposal Facilities for Options Selected Briefing. PEI 68-02-3890, WA 61. (ESED paying cost of original WA; MDAD is project officer and paying for Change 1 to WA.)

Gerald L. Gipson

Monitoring and Data Analysis Division for CDHS Use

Air Quality and Emissions Inventory Systems Support for State/Local Agencies. Engineering Science 68-02-3888, WA 11. (Continuation of ES 68-02-3509, WA 51.

Sam Colon-Velez

Air Quality and Emissions Inventory Systems Support for State/Local Agencies. PES 68-02-3887, WA 23.

Sam Colon-Velez

MDAD-CDHS (continued)

Air Quality and Emissions Inventory Systems
Support for State/Local Agencies--Phase II.
PES 68-02-3887, WA 37.

Jerry C. Husketh

Air Quality and Emissions Inventory Systems
Support for State/Local Agencies--Phase III.
PES 68-02-3887, WA 51.

Jerry C. Husketh

Control Programs Development Division, Standards Implementation Branch

Evaluation of Sources Affected by Revisions
to the Stack Height Regulations.
GCA 68-02-3892, WA 1. (Continuation of
GCA 68-02-3510, WA 51)

Eric O. Ginsburg

Analysis of PSD Permit Applicability of Fugitive
Emissions Sources. Radian 68-02-3889, WA 19.

Gary McCutcheon

Regulatory Analysis of LAER for Cogeneration
Facilities. SAIC 68-02-3893, WA 1.

Gary McCutcheon

Study of Potential Effect of Regulating Strip
Mines under New Source Review. PEI 68-02-3890,
WA 5.

Kirt Cox

Analysis of Costs Involved in Preparing a
Complete PSD Application. PEI 68-02-3890, WA 9.

Barry Howard

Terrain Analyses for Selected Utility Sources
Potentially Affected by EPA Stack Height
Regulations. GCA 68-02-3892, WA 11.
(Cost is \$1,880. OPPE, Air Branch Regulatory
Policy Division paid \$1,750.)

Eric O. Ginsburg

Analysis of 1985 NSR Audit Data.
Radian 68-023-3889, WA 52.

Dan deRoeck

Technical Review of Draft Federal Register
Package on Visibility Regulations.
SAIC 68-02-3893, WA 4.

Robert D. Bauman

Technical Review of Draft Script for Briefing
on Air Quality Visibility Regulations.
SAIC 68-02-3893, WA 5.

Robert D. Bauman

Technical Review of Draft Federal Register
Package on Stack Height Emission Balancing
Policy. SAIC 68-02-3893, WA 7.

Eric O. Ginsburg

SIB (continued)

NSR Permit Analysis: BACT/LAER Decisions and Guidance, Offset Ratios, and Surface Mine Data. Radian 68-02-3889, WA 59.

Gary McCutchen

Analysis of New Source Review (NSR) Permitting Experience, Part 3. Radian 68-02-3889, WA 60. RRS paying \$7,500 on cost of WA.

Gary McCutchen

State Air Toxics Program Development Support. Radian 68-02-3889, WA 61.

Barry Howard

Development of a Self-Instructional Course on "Effective Permit Writing for PSD, NSR, and Air Toxics." PEI 68-02-3890, WA 19. (Cost shared with MTIB.)

Charles D. Pratt

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Incorporation of Air Toxics Considerations into the National Air Audit System Guidance for New Source Review. SAIC 68-02-3893, WA 10.

Barry Howard

Long-Term Strategy Development for Visibility Protection. Radian 68-02-3889, WA 77.

Janet C. Metsa

Integration of Air Toxics Control into the New Source Review Program. PEI 68-02-3890, WA 29.

Bruce Polkowsky

Development of State Program Guidance Document for Emission Inventories. Radian 68-02-3889, WA 83.

Roger Powell

Development of Guidance for NSR/PSD Permit Processing. Radian 68-02-3889, WA 90.

Gary McCutchen

Combining Receptor and Dispersion Modeling to Develop a Demonstration PM₁₀ SIP for Hayden, Arizona. Engineering Science 68-02-3888, WA 52. (Duane Ono, Region IX, is project officer--SIB paying cost.

Ken Woodard/
Duane Ono, Reg. IX

Study of Potential Effect of Regulating Strip Mines Under New Source Review: Public Comment Support. PEI 68-02-3890, WA 36.

Kirt Cox

Background Information for Vessel Emissions Rulemaking. PES 68-02-3887, WA 40.

Nancy Mayer

Analysis of the Sensitivity of Assumptions Made in the Draft Regulatory Impacts Analysis for Proposed SO₂ NAAQS. PEI 68-02-3889, WA 53.

Eric Ginsburg

Provide Support for Air Toxics Program Development Workshops. Radian 68-02-3889, WA 109.

Roger D. Powell

FY 1987

Regional Workshops for Revised Air Quality Standard for Particulate Matter (PM ₁₀). PEI 68-02-3890, WA 63.	Ted Creekmore
Revise List of Questions Prepared Under Work Assignment 109. Radian 68-02-3889, WA 118.	Roger D. Powell
Review of Opacity Method Comments and Revision of Opacity Error Analysis Report. SAIC 68-02-3893, WA 20. (SIB paying \$2K on SSCD WA.)	Kirk Foster
Preparation of Air Toxics Workshop Materials PEI 68-02-3890, WA 68	Roger D. Powell
Update and Compile NSR/PSD Policy Reference Material. PES 68-02-3887, WA 65.	David A. Solomon
Support for the High Risk Point Source Program. ATC 68-02-3892, WA 45.	David F. Painter
Outline an Air Toxics Program Design Manual. Radian 68-02-3889, WA 122.	Bruce Polkowsky
Modeling Workshop for Toxic Air Contaminants. TRC 68-02-3886, WA 63.	David F. Painter/ Jon Pollack
<u>Control Programs Development Division, Control Programs Operations Branch</u>	
Update of the Air Pollution Control Strategy Resource Estimator (APCSRE) State/Local Resource Model. PEI 68-02-3890, WA 2. (Continuation of PEI 68-02-3512, WA 75)	Tom Donaldson
VOC/RACT Clearinghouse Newsletter. PES 68-02-3887, WA 9. (Continuation of PES 68-02-3511, WA 41)	William L. Polglase
Revise Audit Criteria for the 1985 National Air Audit System. GCA 68-02-3892, WA 8.	Tom Williams
Computerized SIP Tracking Procedures--Phase IV. Engineering Science 68-03-3888, WA 13.	Betsy Horne
Revised Summary of State VOC Regulations as of August 1, 1984. GCA 68-02-3892, WA 10.	William L. Polglase
Evaluating Control Technology for Sources of PM ₁₀ . MRI 68-02-3891, WA 4.	Ken Woodard

Update of the Air Pollution Control Strategy Resource Estimator (APCSRE) State/Local Resource Model. PEI 68-02-3890, WA 15.

Tom Donaldson

Computerized SIP Tracking Procedures--Phase V. Engineering Science 68-02-3888, WA 30.

Willis P. Beal

Documenting the Available Means for Significantly Reducing Emissions of Lead (and Their Ambient Impact) at the Bunker, Ltd. Lead and Zinc Smelters in Kellogg, ID. PES 68-02-3887, WA 15.
Region X is sharing cost of work assignment.

David C. Bray

National Ozone Nonattainment--A Summary of the Problem, the Policy, and Potential Control Strategy Alternatives.
SAIC 68-02-3893, WA 6

Ray Vogel

Develop Audit Criteria and Summarize Regional Office Audit Reports. GCA 68-02-2892, WA 17.

Tom Williams

Preparation of Nonattainment Area Maps.
ES 68-02-3888, WA 34.

Jerry Yarn

Regional Workshop for Revised Stack Height Regulations. PEI 68-02-3890, WA 20.

Sharon Reinders

Evaluating Uses of Energy Information Agency (EIA) Form 767 in Emissions Inventory Confirmation Exercises. SAIC 68-02-3893, WA 9.

David G. Johnson

FY 1986

Analyze Compiled Data on the Modeling Capabilities of Air Agencies and Write a Summary Report. PES 68-02-3887, WA 24.

Tom Williams

Computerized SIP Tracking Phase I and Phase II. PES 68-02-3887, WA 28.

John J. Silvasi

Computerized SIP Tracking Update.
PEI 68-02-3890, WA 23.

Jerry Yarn

Update of the Air Pollution Control Strategy Resource Estimator (APCSRE) State/Local Resource Model--Phase III. PEI 68-02-3890, WA 28.

Tom Donaldson

VOC/RACT Clearinghouse Newsletter.
PES 68-02-3887, WA 36.

William L. Polglase

OAQPS/Regional Office Workshop.
PEI, 68-02-3890, WA 42.

Willis P. Beal

Determination of Source-Specific RACT for Two Large Bakeries that Emit VOC's in Connecticut. CPOB paying/Region I project officer. MRI 68-02-3891, WA 16.

Lynne Hamjian

Review of Available Methodologies for Estimating Control Technology Costs at Emissions Sources of Acid Rain Precursors. NAPAP paying. MRI 68-02-3891, WA 17.

David Johnson/
Dale Pahl

Development of State Implementation Plan (SIP) Checklists. PES 68-02-3887, WA 49.

Willis P. Beal

Development of Federal Register Format Checklists. Radian 68-02-3889, WA 106.

Willis P. Beal

Evaluation of Ozone Control Measures and Preparation of Technical Support Document. Radian 68-02-3889, WA 108.

David G. Johnson

VOC/RACT Clearinghouse Newsletter--Phase III. PES 68-02-3887, WA 50.

William L. Polglase

FY 1987

Analysis of Stack Height Submittals. PES 68-02-3887, WA 53.

Willis P. Beal

Catalog of Ozone SIP Proposals/Promulgations. PEI 68-02-3890, WA 65.

Ray Vogel

Development of State Implementation Plan (SIP) Checklists. PES 68-02-3887, WA 55.

Willis P. Beal

Review of Federal Register Notices. PES 68-02-3887, WA 57.

Denise Gerth

Analysis of Fiscal Year 1986-1987 National Air Audit Data. PES 68-02-3887, WA 61.

Tom Williams

Analysis of Possible Changes to the Clean Air Act. ATC 68-02-3892, WA 40.

John J. Silvasi

Conversion of the Manpower Model from the UNIVAC Computer to the IBM Computer. PEI 68-02-3890, WA 72.

Tom Donaldson

Review of Available Methodologies for Estimating SO₂ Control Technology Costs. NAPAP paying. MRI 68-02-3891, WA 23.

David G. Johnson

Feasibility of Using Optical Character Reader (OCR). PES 68-02-3887, WA 66.

William F. Hamilton

OAQPS/Regional Office Workshop.
PEI 68-02-3890, WA 76.

Willis P. Beal

Analysis of SIP Nonimplementation.
PES 68-02-3887, WA 72.

Barry Howard

Control Programs Development Division, Manpower and Technical Information Branch

Development of a Seminar/Workshop for "An Introduction to Air Toxics." Radian 68-02-3889, WA 20. Total cost of \$45,473 shared by Regions III and VII and SASD. (Continuation of WA 68, Radian 68-02-3513.)

Charles D. Pratt

Presentation of Two Workshops Entitled "An Introduction to Air Toxics." Regions III and IX will share cost of \$9,521 with MTIB.
Radian 68-02-3889, WA 33.

Leo H. Stander

Development of a Workshop, "Site Specific Source Monitoring and Evaluation for Air Toxics." (Estimated cost \$44,100--shared by MTIB, Regions III, VII, and IX)
ES 68-02-3888, WA 28.

Charles D. Pratt

Development of a Workshop, "The Changing Managerial Environment for Governmental Administrators. ES 68-02-3888, WA 31.

Ronnie E. Townsend

Development of a Self-Instructional Course on "Effective Permit Writing for PSD, NSR, and Air Toxics. PEI 68-02-3890, WA 19.
(Cost shared by SIB)

Charles D. Pratt

Develop and Conduct a Workshop on "Effective Permit Writing for PSD, NSR, and Air Toxics." Radian 68-02-3889, WA 57.

Charles D. Pratt

FY 1986

Conduct Workshop on "Site Specific Source Monitoring and Evaluation for Air Toxics." ES 68-02-3888, WA 40.

Charles D. Pratt

Conduct Workshops on "Effective Permit Writing for PSD, NSR, and Air Toxics." Regions IV and VII are each paying one-half cost.
Radian 68-02-3889, WA 85.

Charles D. Pratt

Conduct Workshop on "Site Specific Source Monitoring and Evaluation for Air Toxics."
Region VIII paying cost.
Engineering Science 68-02-3888, WA 54.

Charles D. Pratt

Revise and Prepare Final Exam for Self-Instructional Course SI:454, "Effective Permit Writing for PSD, NSR, and Air Toxics." PEI 68-02-3890, WA 46.
Region IX paying costs.

Charles D. Pratt

Present a Workshop on "Inspection and Reporting Requirements for Surface Coating Operations."
PEI 68-02-3890, WA 47.

Charles D. Pratt

Revise and Update APTI Course 401, "Site Specific Source Monitoring and Evaluation for Air Toxics."
ES 68-02-3888, WA 57.

Charles D. Pratt

FY 1987

Conduct Training Course APTI 400, "Introduction to Air Toxics" with Updates of Several Critical Lessons. Radian 68-02-3889, WA 111.
Region V is paying costs.

Charles D. Pratt

Development of a Self-Instructional Course and Correspondence Course on SIP Development for the PM₁₀ National Ambient Air Quality Standard.
PEI 68-02-3890, WA 58.

Charles D. Pratt

Present "Kraft Pulp Mill Workshop and Site."
PEI 68-02-3890, WA 71. SSCD paying costs.

Charles D. Pratt

Mobile Source, Ann Arbor

Inspection/Maintenance Audit Support,
High Altitude Adjustment Manual and
Methanol Photochemistry. Radian 68-02-3889,
WA 11. (Continuation of Radian (TRW)
68-02-3515, WA 25.

Jane Armstrong

Guidance on Surveillance Techniques in
Decentralized I/M Programs. ES 68-02-3888,
WA 24.

Jane Armstrong

Mobile Source, Ann Arbor (continued)FY 1986

Quality Assurance System for Missouri's
Decentralized I/M Program. Region VII's
work assignment--Ann Arbor is contributing
\$10,000 to cost of project.
PEI 68-02-3890, WA 40.

Michael T. Marshall

Office of Standards and Regulations

Emissions Trading Manual for the Department
of Defense. Radian 68-02-3889, WA 4.
(Continuation of Radian 68-02-3513, WA 40)

Barry Elman

Level II Analysis of Hypothetical Emissions
Trades. PEI 68-02-3890, WA 1. (Continuation
of PEI 68-02-3512, WA 59)

Leonard Fleckenstein

Examination of Meteorological Data to Assist
in Establishing Areas of Significant Impact
for the Emissions Trading Policy.
TRC 68-02-3886, WA 11.

Barry Elman

Analysis of the Relative Stringency of NSPS
and RACT and the Methodologies Employed in
Their Development. ES 68-02-3888, WA 36.

Barry Elman

The Effect of Changing Compliance Averaging
Time for VOC Emission Sources.
TRC 68-02-3886, WA 27.

Barry Elman

Analysis of New Source Review (NSR) Permitting
Experience, Part 3. Radian 68-02-3889, WA 60.
RRS is paying \$7,500 only on estimated cost of
\$19,042; SIB paying balance.

Gary McCutchen

Office of Air Quality Planning and Standards

Develop and Conduct Acrylonitrile Orientation
Workshop. GCA 68-02-3892, WA 7.

Fred Renner

Evaluation of Acrylonitrile Emissions from
Two Facilities in Ohio. GCA 68-02-3892, WA 18.
(Region V is responsible for work assignment.)

Boniface Thayil

FY 1986

Develop and Conduct Acrylonitrile Regulatory Workshop. GCA 68-02-3892, WA 22.

Fred Renner

FY 1987

Personal Computer Support for OAQPS.
PES 68-02-3887, WA 67

A. Stanley Meiburg

Fact Finding for SIP Processing.
Radian 68-02-3889, WA 123.

James B. Weigold

Air and Energy Engineering Research Laboratory

Study to Determine Environmental Impacts to Proposed Coal Terminal (Air Emissions).
TRC 68-02-3886, WA 4. (Continuation of TRC 68-02-3514, WA 42)

D. Bruce Harris

Provision of Technical Assistance in Characterizing Emissions Affecting Indoor Environments. Radian 68-02-3889, WA 10.
(Continuation of Radian (TRW) 68-02-3515, WA 27)

David C. Sanchez

Parametric Evaluation of Catalytic Oxidation for Control of VOC Emissions.
Radian 68-02-3889, WA 9. (Continuation of Radian (TRW) 68-02-3515, WA 28)

Bruce Tichenor

Support in Accidental Release (Air Toxics). Region IX is paying cost of work assignment.
Radian 68-02-3889, WA 84.

William J. Rhodes

Estimation of Potential Additional Reductions in SO₂ Emissions (By State) and the Costs Associated with Additional Physical Coal Cleaning (PCC). SAIC 68-02-3893, WA 15.

Julian W. Jones

Support in Accidental Release.
Radian 68-02-3889, WA 98. Region 9 will pay \$70,000 on cost of work assignment.

T. Kelly Janes/
Region 9

NAPAP Emission Inventory--Modification of NEDS Software. PES 68-02-3887, WA 31.

Sam Colon-Velez

Revised Volatile Organic Compound (VOC) Species Data Manual. Radian 68-02-3889, WA 104.
Cost shared by MDAD.

Wm. B. Kuykendal

NAPAP Emission Inventory--Support of Modified NEDS Software. PES 68-02-3887, WA 48. MDAD is project officer; AEERL is paying cost.

Sam Colon-Velez

NAPAP Emission Inventory--Increase Accuracy of NAPAP Historical SO₂/NO_x Emission Inventory PES 68-02-3887, WA 11.

David Mobley/
Chuck Mann

Air and Energy Engineering Research Laboratory
National Acid Precipitation Assessment Program (NAPAP)

FY 1986

Preparation of 1985 Data and National Emissions Data System (NEDS) Submittal for Rhode Island (NAPAP). GCA 68-02-3892, WA 24.

Stephen S. Perkins/
Dale Pahl

1985 NEDS/NAPAP Emissions Inventory Preparation for Minnesota. Engineering Science, 68-02-3888, WA 48.

Tim Method/
Dale Pahl

NAPAP Emissions Inventory Assistance. MRI 68-02-3891, WA 8.

D.J. Wheeler/
Dale Pahl

Florida 1985 NEDS Emissions Inventory for the National Acid Precipitation Assessment Program (NAPAP). PES 68-02-3887, WA 35.

Stuart Perry/
Dale Pahl

Tennessee 1985 NEDS Emissions Inventory for the National Acid Precipitation Assessment Program (NAPAP). SAIC 68-02-3893, WA 11.

Stuart Perry/
Dale Pahl

South Carolina 1985 NEDS Emissions Inventory for the National Acid Precipitation Assessment Program (NAPAP). PEI 68-02-3890, WA 32.

Stuart Perry/
Dale Pahl

Kentucky 1985 NEDS Emissions Inventory for the National Acid Precipitation Assessment Program (NAPAP). PEI 68-02-3890, WA 33.

Stuart Perry/
Dale Pahl

State of Idaho 1985 NEDS Emissions Inventory for the National Acid Precipitation Assessment Program (NAPAP). GCA 68-02-3892, WA 27.

Richard F. White/
Dale Pahl

Technical Support to Local Districts in California for the National Acid Precipitation Assessment Program (NAPAP). GCA 68-02-3892, WA 28.

Frances Prosser/
Dale Pahl

Assistance to Region IV States to Develop a High Quality National Acid Precipitation Assessment Program (NAPAP) NEDS Emissions Inventory for 1985. GCA 68-02-3892, WA 30.

Joseph P. Winkler/
Dale Pahl

Region VIII 1985 Emission Inventory for the National Acid Precipitation Assessment Program (NAPAP). GCA 68-02-3892, WA 31.

Larry Svoboda/
Dale Pahl

Quality Assurance of State of Maryland 1985 NEDS/NAPAP Emissions Inventory. GCA 68-02-3892, WA 32.

Theodore C. Erdman/
Dale Pahl

Quality Assurance of State of West Virginia 1985 NEDS/NAPAP Emissions Inventory. GCA 68-02-3892, WA 33.

Theodore C. Erdman/
Dale Pahl

NEDS/NAPAP 1985 Emission Inventory Verification for the State of California. GCA 68-02-3892, WA 34.

Frances Prosser/
Dale Pahl

Review of Available Methodologies for Estimating Control Technology Costs at Emissions Sources at Acid Rain Precursors. MRI 68-02-3891, WA 17. CPOB is project officer; NAPAP paying costs.

David G. Johnson/
Dale Pahl

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Texas and Louisiana NAPAP/NEDS Emission Inventory for 1985. GCA 68-02-3892, WA 37.

Joseph Winkler/
Dale Pahl

NAPAP Emission Inventory--NEDS Area Source Data Collection/Coding. PES 68-02-3887, WA 60. MDAD is project officer; NAPAP paying costs of WA.

Sue Kimbrough/

1985 NEDS/NAPAP Emissions Inventory Quality Assurance Effort for Region V States. ES 68-02-3888, WA 64. NAPAP paying; Region V is project officer.

Carl Nash/Dale Pahl

Emission Standards and Engineering Division

Review of Plant Specific Problems Encountered by the Automobile and Light-Duty Truck Industry in Complying with State Limits for Volatile Organic Compound Emissions from Topcoat Operations. PES 68-02-3887, WA 2. (Continuation of PES 68-02-3511, WA 44)

James C. Berry

Develop Proposed Final Waivers Under §111(j) of Clean Air Act for Top Coating Operations at Four Automobile and Light Duty Truck Plants. PES 68-02-3887, WA 6. (Continuation of PES 68-02-3511, WA 50)

Sims L. Roy

Control Techniques for VOC Document (ESED Project #84/21). PES 68-02-3887, WA 10.

Steve Shedd

BACT/LAER Clearinghouse Improvement and Maintenance. PEI 68-02-3890, WA 4.

Gary Rust

NSPS Workshop. PES 68-02-3887, WA 16.

Douglas Bell

Developing and Evaluating Test Methods for Quantifying Air Emissions from Hazardous Waste Disposal Facilities. Radian 68-02-3889. WA 42.

R. Terry Harrison

Assessment of Hazardous Waste Transport Operations. ES 68-02-3888, WA 25.

Randy McDonald

Developing, Evaluating, and Implementing Sampling, Sample Preparation, and Sample Analysis Procedures for Quantifying Potential Volatile Organic Emissions from Hazardous Waste Disposal Facilities. GCA 68-02-3892, WA 13.

R. Terry Harrison

Assessment of Hazardous Waste TSDF Particulate Emissions. MRI 68-02-3891, WA 5.

Kent C. Hustvedt

Review of Union Carbide (Institute, WVA) Emission Inventory. Radian 68-02-3889, WA 55.

Leslie B. Evans

Develop Proposed and Final Waiver under 111(j) of CAA for Top Coating Operations at An Automobile and Light Duty Truck Plant. PES 68-02-3887, WA 20.

Sims L. Roy

Waste Solvent Treatment Facility Federal Register
Notice and Technical Note - Phase I.
PES 68-02-3887, WA 21.

W. Fred Dimmick

FY 1986

Technical Document Summarizing Information on
Fugitive Equipment Leaks. Radian 68-02-3889,
WA 63.

Robert Rosensteel

Assessment of Hazardous Waste Transport
Operations. ES 68-02-3888, WA 37.

Randy McDonald

BACT/LAER Clearinghouse Improvement and
Maintenance--1986. PEI 68-02-3890, WA 21.

Gary Rust

Preparation of Information Document for
Chloroform Emissions from Pulp and Paper
Manufacturing. PES 68-02-3887, WA 27.

David A. Beck

Preparation of Information Document for
Methylene Chloride, Perchloroethylene, and
Trichloroethylene Emissions from Degreasing.
GCA 682-02-3892, WA 21.

David A. Beck

Calculation of Storage Tank Emission and Control
Cost Estimates. PES 68-02-3887, WA 29.

Stephen A. Shedd

Waste Solvent Treatment Facility: Federal
Register Notice and Technical Note--Phase II.
PES 68-02-3887, WA 30.

W. Fred Dimmick

NSPS Reporting and Recordkeeping Survey.
PES 68-02-3887, WA 34. (SSCD is project officer).

Sally Farrell

Preparation of Information Document for
Chloroform Emissions from Pulp and Paper
Manufacturing--Phase II. PES 68-02-3887, WA 38.

Mark L. Meech

Review of Fugitive Emission Factors Used in
West Virginia Emission Inventory for VOC and
Toxics. Radian 68-02-3889, WA 92.

Leslie B. Evans

Plant Specific Review of Compliance Status of
Automobile and Light-Duty Truck Topcoat
Operations with State Limits for Volatile
Organic Compound (VOC) Emissions.
PES 68-02-3887, WA 41.

David Salman

Zinc/Zinc Oxide Preliminary Source Assessment.
MRI 68-02-3891, WA 14.

William J. Neuffer

Assessment of Hazardous Waste TSDF Particulates Emissions. MRI 68-02-3891, WA 13.

Lee L. Beck

Preparation of Preliminary Source Assessment Documents for Methyl Isocyanate, Napthalene, and Xylene Emission Sources. PES 68-02-3887, WA 43.

Robert E. Rosensteel

Develop Proposed and Final Waiver under 111(j) of CAA for Top Coating Operations at Chrysler Corporation's Warren, Michigan Truck Assembly Plant. PES 68-02-3887, WA 44.

Sims L. Roy

Control Techniques and Costs for Reducing Particulate Matter Emissions from Combustion of Municipal Solid Waste in Boilers. Radian 68-02-3889, WA 96.

Fred Porter

Investigation of Substitute Solvent Control Impacts and Enforcement/Implementation Problems for Degreasing Operations. Radian 68-02-3889, WA 99.

David A. Beck

Assessment of Emissions Control Costs for Municipal Waste Combustors. PES 68-02-3887, WA 47. Region V paying \$2,500 of costs, OSW paying \$45,000.

Michael Johnston

FY 1987

Review of Chemical Industry Equipment Leak Test Programs. Radian 68-02-3889, WA 110.

Leslie B. Evans

Availability and Costs of Very Low Sulfur Coal for Industrial Boilers. OPPE paying \$25,000 on costs of WA. Radian 68-02-3889, WA 116.

Fred L. Porter

Dispersion Modeling of Toxic Emissions from Treatment Storage and Disposal Facilities for Options Selected Briefing.

Gerald L. Gipson

PEI 68-02-3890, WA 61. (ESED paying; MDAD is project officer.)

BACT/LAER Clearinghouse Improvement and Maintenance--1987. PEI 68-02-3890, WA 64.

Candace Sorrell

BACT/LAER Information System Conversion from UNIVAC to IBM. PEIII 68-02-3890, WA 73.

Candace Sorrell

Chlorinated Solvent Usage in Degreasing Applications. ATC 68-02-3892, WA 51.

David A. Beck

Environmental Monitoring Systems Laboratory
Exposure Assessment Division (EAD)

Soil Gas Sampling Techniques of Chemicals
for Exposure Assessment. Radian 68-02-3889,
WA 18. (Continuation of Radian 68-02-3513,
WA 32)

Shelley Williamson

Environmental Monitoring Systems Laboratory--RTP

Development of a Method for Asbestos Mass
Emission Rate from Stationary Sources.
Engineering Science (ES) 68-02-3888, WA 15.

Thomas J. Logan

Development of a Technical Assistance Document
on the Application of Continuous Emission
Monitors to Municipal/Hazardous Waste
Incinerators (HCl Monitoring). ES 68-02-3888,
WA 16.

Thomas J. Logan

Field Validation of the Volatile Organic
Sampling Train (VOST). PEI 68-02-3890, WA 12.

Thomas J. Logan

FY 1986

Development of a Method for Asbestos Mass Emission
Rate from Stationary Sources--Phase II.
ES 68-02-3888, WA 41.

Thomas J. Logan

Study of Benzene Continuous Emission Monitoring
Systems (CEMS) for the Bulk Storage Industry.
PES 68-02-3887, WA 33.

Thomas J. Logan

Addition of Methods to the "Compendium of Methods
for the Determination of Toxic Organic Compounds
in Ambient Air." ES 68-02-3888, WA 44.

Larry J. Purdue

Automated Measurement of Ambient NMOC
Concentrations. Radian 68-02-3889, WA 89.

Vinson L. Thompson

Development of a Method for Asbestos Mass
Emission Rate from Stationary Source--Phase III.
Engineering Science 68-02-3888, WA 55.

Thomas J. Logan

Development of Benzene Continuous Emission
Monitoring Systems (CEMS) for the Bulk
Storage Industry. PES 68-02-3887, WA 59.

Thomas J. Logan

Development and Evaluation of a Prototype Air
Toxics ("Urban Soup") Analytical System.
Radian 68-02-3889, WA 120

Larry J. Purdue

Office of Solid Waste and Emergency Response
Waste Management and Economics Division

Control of Hazardous Waste Combustion in Boilers, Kilns, and Industrial Furnaces (Air Emissions). Engineering Science (ES) 68-02-3888, WA 7. (Continuation of ES 68-02-3509, WA 66,

Marc Turgeon

Collect and Evaluate Ambient Air Monitoring Data Near Treatment Storage and Disposal Facilities (TSDF). Radian 68-02-3889, WA 3. (Continuation of Radian 68-02-3513, WA 53)

M. Dusetzina

Characterization and Assessment of Hazardous Waste Combustion in Industrial Furnaces (Air Emissions). ES 68-02-3888, WA 17.

Marc Turgeon

FY 1986

Summary of State Subtitle D Regulations and State Field Surveys (Air Emissions). PEI 68-02-3890, WA 27.

Michael Flynn

Standards and Guidance for Continuous Emission Monitoring for Hazardous Waste Combustors. PES 68-02-3887, WA 45.

Marc Turgeon

Assessment of Emissions Control Costs for Municipal Waste Combustors. PES 68-02-3887, WA 47. Region V paying \$2,500 of costs, OSW paying \$45,000, and ESED is project officer.

Michael Johnston

Office of Policy Analysis and Review, OAR

Review of Recent New Source Review (NSR) Permitting Experience. Radian 68-02-3889, WA 27. (Continuation of Radian (TRW) 68-02-3515, WA 26.)

George Sugiyama

Performance Analysis of the Human Exposure Model (HEM). ES 68-02-3888, WA 23.

George Sugiyama

Woodstoves Emissions Data and Assessment. Radian 68-02-3889, WA 47.

George Sugiyama

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Woodstoves Emissions Data and Assessment. Radian 68-02-3889, WA 68.

George Sugiyama

Comparative Risk Assessment of Hazardous
Waste Disposal Techniques.
Radian 68-02-3889, WA 70.

George Sugiyama

Comparative Risk Assessment of Hazardous
Waste Disposal Techniques--Phase II.
Radian 68-02-3889, WA 88.

George Sugiyama

Performance Analysis of the Human Exposure
Model (HEM): Case Studies and Follow-up
Analyses. Engineering Science 68-02-3888,
WA 50.

Vivian Thomson

FY 1987

Analysis of Air Emissions and Subsurface
Air Migration at RCRA Subtitle D Municipal
Landfills. Radian 68-02-3889, WA 112.

Vivian Thomson

Analysis of Data from Total Exposure Assessment
Methodology (Air Emissions).

Vivian Thomson

Review of Pollution Transfer from Water and Land
into the Air: Is Air the Disposal Medium of
Choice? SAIC 68-02-3893, WA 25.

Vivian Thomson

Report on Preliminary Evaluation of the
Acrylonitrile Project. SAIC 68-02-3893, WA 26.

Vivian Thomson

Study of Municipal Solid Waste Combustion
Facilities. SAIC 68-02-3893, WA 31.

Jim DeMocker

Analysis of Selected SO₂ and NO_x-Related
Clean Air Act Amendments Issues.
SAIC 68-02-3893, WA 34.

Robert Brenner

Paris/Airshed Modeling for 1984 Santa Barbara
Ozone Episodes. ES 68-02-3888, WA 66.
(OPAR paying \$20,000 on WA costs of \$105,092.)

Kevin Golden/OPAR

Office of Research and Development
Acid Deposition Research Staff

Technical Support of the National Lake Survey
for Determining Acid Deposition Effects--
Phase IIIB. Radian 68-02-3889, WA 2.

Dr. J. Huang

Technical Support of National Surface Water
Survey (NSWS) Program (Air Emissions).
Radian 68-02-3889, WA 45.

Dr. J. Huang

Technical Support to the Surface Water Survey
and the Direct/Delayed Response Program.
Radian 68-02-3889, WA 54.

Dr. John Malanchuk

FY 1986

Acid Deposition Technical Support (Air
Emissions). Radian 68-02-3889, WA 69.

Dr. John L. Malanchuk

FY 1987

Acid Deposition (Air Emissions) Technical
Support to the Aquatic Effects Research
Program. Radian 68-02-3889, WA 113.

Dr. John L. Malanchuk

Office of Research and Development
Acid Deposition Research Staff -- Las Vegas, Nevada

Technical Support of the EPA Acid Deposition
Large Field Project Survey Programs (Air
Emissions. Radian 68-02-3889, WA 31.

Dr. E. P. Meier

Environmental Criteria and Assessment Office

Technical Support for U.S.-Dutch International
Symposium on Aerosols. TRC 68-02-3886, WA 5.

S. D. Lee

Technical Support for a Workshop Reviewing Two
Carcinogenic Studies. TRC 68-02-3886, WA 6.

S. D. Lee

Technical Support for Developing a Compilation
of Aerosol Research Reports. TRC 68-02-3887,
WA 26.

S. D. Lee

FY 1986

Technical Support for Developing a Compilation
of Aerosols Research Reports. TRC 68-02-3887,
WA 31.

S. D. Lee

Update of Health Assessment Document (HAD) for
Chromium. TRC 68-02-3886, WA 44.

S. D. Lee

FY 1987

Preparation of Chapter 3, "Background Information," for the Health Assessment Summary for Selenium. Radian 68-02-3889, WA 117.	S. D. Lee
Review Workshop for the Draft Update of Non-Carcinogen Health Effects and Revisions in the Health Assessment Document (HAD) for Chromium. TRC 68-02-3886, WA 50.	S. D. Lee
ORD Indoor Air Pollution Research Plan Document. TRC 68-02-3886, WA 53.	Norman L. Childs
Report on Trends in International Indoor Air. TRC 68-02-3886, WA 64.	Norman L. Childs

Office of Policy, Planning, and Evaluation, Air Branch Regulatory Policy Division

Terrain Analyses for Selected Utility Sources Potentially Affected by EPA Stack Height Regulations. GCA 68-02-3892, WA 11. (Cost shared by SIB)	Eric O. Ginsburg
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FY 1986

Regional Effects of Reduced Lead in Gasoline. Radian 68-02-3889, WA 73.	Hugh Pitcher
Ozone NAAQS Regional Modeling in the Upper Midwest and Southeast. MDAD is project officer and OPPE is paying \$30,000 toward cost of WA. PEI 68-02-3890, WA 43.	Norman C. Possiel

FY 1987

Technical Support to EPA Region VIII to Collect and Analyze Ambient Samples of VOC, SVOC, and Aldehydes/Keytones. (Region VIII is project officer; OPPE paying costs of work assignment.	William J. Basbagill
Availability and Costs of Very Low Sulfur Coal for Industrial Boilers. Radian 68-02-3889, WA 116. OPPE paying \$25,000 only on WA. ESED is project officer.	Fred L. Porter

Office of Air and Radiation, Office of Program Development

State Acid Rain (STAR) Workshop Radian 68-02-3889, WA 53.	Larry B. Blackwood
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Assessing Impact of Exposure from
Different Microenvironments (Air Pollution).
SAIC 68-02-3893, WA 24.

Elizabeth C. Agle

Workshop on Indoor Air Quality.
SAIC 68-02-3893, WA 25.

Elizabeth C. Agle

Office of Policy Analysis, Hazardous Waste Branch

Acquisition of Data on Air Emissions from
Municipal Solid Waste Incineration Facilities.
ES 68-02-3888, WA 43.

David Adler

Stationary Source Compliance Division

FY 1986

NSPS Reporting and Recordkeeping Survey.
PES 68-02-3887, WA 34. Costs paid by ESED;
SSCD is project officer.

Sally Farrell

FY 1987

Compliance Data System Operation and Support
Activities. TRC 68-02-3886, WA 55.

Franklin C. Smith

Development of Wood Heater NSPS Materials.
Radian 68- 02-3889, WA 119.

Dooreen Cantor

Review of Opacity Method Comments and Revision
of Opacity Error Analysis Report.
SAIC 68-02-3893, WA 20.

Kirk Foster

Implement the National Asbestos Registry
System (NARS). TRC 68-02-3886, WA 58.

Mark Antell

Present "Kraft Pulp Mill Workshop" and Site.
PEI 68-02-3890, WA 71.

Charles D. Pratt

Superfund

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Funding for SSCD Contract 68-01-7310 with NUS.

Joseph Padgett

Incremental Funding for SSCD Contract
68-02-4464 with PES.

Joseph Padgett

Technical Support of Air Program Superfund
Activities. PEI Contract 68-02-3890, WA 79.

Joseph Padgett

Commitment on Incremental Funding for Radian
LOE Contract to be Awarded under Solicitation
Number DU-87-C056 for Comprehensive Air Pollution
Control Programs and Implementation Support.

Joseph Padgett

Commitment on Incremental Funding for PEI
LOE Contract to be Awarded under Solicitation
Number DU-87-C056 for Comprehensive Air Pollution
Control Programs and Implementation Support.

Joseph Padgett

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