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Inventory of Federal Energy-Related Environment and Safety Research for FY 1977

Volume IV—Indices

July 1978

U.S. Department of Energy
Assistant Secretary for Environment
Division of Environmental Impacts

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INTRODUCTION

This volume contains indexes useful for accessing projects contained in the FY 1977 Federal Inventory. The indexing has been greatly broadened this year to provide hard copy users with greater flexibility in locating projects. The Inventory projects are printed sequentially by log number. An inventory log number is a unique number assigned to each project from a block of numbers set aside for each agency. The association of agencies with blocks of log numbers is found in the table of contents of the Index (Volume III).

The FY 1977 Inventory has three separate indexes described below:

Index 1: **Permuted Title** (by log number)

This is an alphabetical index of significant words in the titles of projects. Everytime a significant word appears in a title, "permuted" title (beginning with that word) appears in an alphabetized listing. This allows users to locate related projects when the exact title is unknown, by using significant words in a search mode.

Index 2: **List of Titles** (in order of log numbers)

This index is a full listing of titles in the order that they appear in the published format. This index can be used to find the title of a project when only the log number is known.

Index 3: **Technology and R&D Category Index**

This is a two-level heirarchical index of the Technology and R&D Category. Projects are listed by R&D category under a general technology heading.

i.e., Fossil Fuels (General)

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Project (ordered by log number)

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- 033274 Biochemical Characterizations of Genetic Variants and Isozymes in Mouse
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- 033276 Effects of Chromosomal Aberrations on Embryonic Development
- 033277 Molecular Characterization of Isozymes and Mutant Enzymes from Mouse
- 033278 Complete Amino Acid Sequence, Determination of Sperm-Specific Lactate Dehydrogenase from Mouse
- 033279 Non-Human Primates in Mutagenicity Testing: Host-Mediated Assay
- 033280 Non-Human Primates in Mutagenicity Testing: Somatic and Germinal Cytogenetic Tests with Mitomycin C
- 033281 Effects of Environmental Agents on Male and Female Reproductive Tract Function
- 033282 Studies on the Host-Mediated Assay Using *Neurospora crassa* as Indicator Organism
- 033283 Primary Structure Characterization of Muscular Lactate Dehydrogenase from Mouse
- 033284 Statistical Development of Multistage Carcinogenesis Models
- 033285 Effects of Microwave Radiation on the Nervous System
- 033286 Assessment of Health Hazards from Lead
- 033287 Low Dose Toxicological Estimation
- 033288 Assessment of Health Hazards from Burning of Fossil Fuels
- 033289 Carcinogenesis of Fossil Fuel Related Combustion Products
- 033290 Inactivation and Mutagenesis in Doubly Repair-Deficient Strains of *Neurospora crassa*
- 033291 Chemically Induced Mutations at Biochemical Loci in Mice
- 033292 Use of Enzyme Heat Denaturation for Detection of Mutations
- 033293 Interaction of Chemical Agents Present in Oil Shale with Biological Systems
- 033294 Effect of NOx Air Pollutants on Membranes
- 034003 DNA Repair Synthesis in Human Diploid Fibroblasts
- 034004 Model Systems for the Study of Chemical Carcinogenesis of the Cellular Level
- 034005 Growth of Epidermal Cells in Culture; A Model System for Studying Chemical Carcinogenesis
- 034006 Metabolism of Chemical Carcinogens by Cultured Human Tissues
- 034007 Studies on the Mechanism of Induction of Aryl Hydrocarbon Hydroxylase
- 034008 DNA Repair Deficiency and Increased Probability of Cancer in Certain Human Genetic Diseases
- 034009 The Role of DNA Repair Mechanisms in In Vitro Chemical Transformation
- 034010 Inducers and Inhibitors of Aryl Hydrocarbon Hydroxylase Activity and Tumorigenesis
- 034011 Identification of the Ultimate Carcinogenic Form of Benzo[a]pyrene
- 034012 Development of an Assay for Glutathione (GSH) S-Transferase-Polycyclic Hydrocarbon Oxides
- 034013 Genetic and Epigenetic Regulation of Mixed-Function Mono-oxygenases
- 034014 Benzo[a]pyrene-4,5-Oxide Hydratase
- 034015 Studies on the Metabolism of Chemical Carcinogens
- 034016 Development and Application of In Vitro Systems Involving Epithelial Cells
- 034017 The Role of DNA Repair Mechanisms in the Etiology of Cancer
- 034018 Analytical Applications of Mass Spectroscopy to Carcinogenesis Problems
- 034019 Chemistry of N-Nitroso Compounds
- 034020 Aryl Hydrocarbon Hydroxylase in Human Lymphocytes and the Relationship to Chemical Carcinogenesis
- 034021 Molecular Processes Involved in the Carcinogenic Action of Polycyclic Aromatic Hydrocarbons
- 034022 Nature of Polycyclic Hydrocarbon-Nucleic Acid Compound in Hydrocarbon Carcinogenesis
- 034023 Significance to Mutagenesis in Carcinogenesis

- 034025 Studies of Microsomal Enzyme Systems Metabolizing Polycyclic Hydrocarbons in Experimental Animals and Humans
- 034026 Investigative Aspects of Enzyme Induction and Chemical Carcinogenesis
- 034028 Study of Pulmonary Tumors in Mice for Carcinogenic and Co-Carcinogenic Bioassay
- 034029 Development of In Vitro Methods for the Detection of Cell-Mediated Immunologic Reactivity to Chemical Compounds
- 034030 Production and Detection of Antibodies to Chemical Carcinogens and Other Small Molecules
- 034031 In Vitro Study of the Nature of the Interaction Between Chemical and Viral Carcinogens
- 034033 Evaluation of the Significance of Experimental Chemical Carcinogenesis Data to Man
- 034034 Resource for Carcinogenesis Bioassays and Related Research
- 034035 Carcinogenesis and Control of the Cell Cycle
- 034036 Carcinogenesis by Radiation Plus Estrogen
- 034037 Synergistic Interaction of Hormones and Neutron Radiation on Mammary Gland Carcinogenesis
- 034038 NCI-ERDA Carcinogenesis Program and Respiratory Carcinogenesis (Program 1)
- 034039 NCI-ERDA Carcinogenesis Program: DNA Repair Mechanisms in Chemical Carcinogenesis (Program 3)
- 034041 Study of Polycyclic Hydrocarbon Metabolism
- 034042 Study of Cancer Mortality
- 034043 Bioassays of Environmental Carcinogenesis
- 034044 Study of Etiology of Cancer
- 034045 Microsomal Enzyme Studies
- 034046 Induce Aryl Hydrocarbon Hydroxylase in Human Lymphocytes
- 034047 Fetal Sensitivity to Intrauterine Radiation
- 034048 Carcinogenesis Bioassay of Propylene
- 034049 Carcinogenesis and Mutagenesis of Polycyclic Hydrocarbon
- 034050 Radiation Protection and Measurements
- 034051 Repair of Radiation-Induced Lesions in DNA
- 034052 Biological Aspects of Carcinogenesis by Radiation
- 034053 Effects of X-Rays on Normal and Malignant Cells
- 034054 DNA Repair and Recovery in the mammalian Cell Cycle
- 034055 Response of Pigment Cells to X- and UV-Radiations
- 034056 Synthesis of Carcinogenic Compounds
- 034057 Radiobiology Research Program
- 034058 Radiation Effect of Protein and Nucleic Acid Metabolism
- 034059 Effect of Chemical Carcinogens on Cells in Vitro
- 034060 Effects of Radiation on Stationary Cells
- 034061 Unsaturated Polyolefins and Hydrocarbon Carcinogenesis
- 034062 Induction of Leukemia in Rodents by Radiation
- 034063 Potential Carcinogenic and Genetic Effects of Tritium
- 034064 Radiation Injury in Subpopulations of Lymphocytes
- 034065 Radiation In Vitro and Mammary Cell Survival and Neoplasia
- 034066 Inhibition of Chemical Carcinogenesis
- 034067 Immune Surveillance in Radiation Carcinogenesis
- 034068 Tritium Damaged Mammalian Cells In Vitro
- 034069 Acidic Chromatin Proteins and Carcinogens
- 034070 Hydrocarbon-Induced Malignant Transformation In Vitro
- 034071 Radiation-Induced Modifications in Protein Synthesis

034072 Inhibition of Initiation-Promotion Carcinogenesis
034073 Mutants and Altered Radioresponse of Cells and Tumors
034074 Cytochrome P450, Chemical Carcinogenesis Benzo(a)pyrene
034075 Repair and Survival in Irradiated Cells
034076 Intermolecular Cross-Links in Chemical Tumorigenesis
034077 Mutagenic Action of Cancer Therapy on Testis Cells
034078 Carcinogenesis, Mutagenesis, and Photo-Labeling of DNA
034079 Hepatic P-450 Systems Induced by Aryl Carcinogens
034080 Derivation of Carcinogenic Epoxides
034081 Carcinogen-DNA Complexes--Structure and Interactions
034082 Mechanisms of Carcinogenesis in Cell Culture
034083 Synthesis, Photo and Thermochemistry of Arene Oxides
034084 Approaches to Chemical Carcinogenesis Mechanisms
034085 Injury and Tumor Formation in the Rat Lung
034086 Aryl Hydrocarbon Hydroxylase Levels-Head-Neck Cancer
034087 3-D Fluorometric Analysis of Hydrocarbon Metabolites
034088 Reactive Heterocycles - Cancer and Biomechanism
034089 Toxicity of Alpha-Emitting Heavy Elements
034090 Environmental Stress and Tumorigenesis
034091 Role of Mutagenesis in Chemical Carcinogenesis
034092 Intracellular Enzyme Kinetics and Carcinogens
034093 Modification of X-Ray Induced Damages in Phages T4
034094 Carcinogenic, Mutagenic and Cytotoxic Mechanism--(DMBA)
034095 Metabolism of 3-Methylcholanthrene in Liver and Lung
034096 Screening for Neoplasms in Irradiated Populations
034097 Radiation-Induced Thyroid Cancer
034098 Carcinogens on Pro- and Eucaryotic DNA Replication
035001 Chemical Radioprotection by WR-2721 of Parotid Glands
035002 Low-Level Irradiation-Modification of Carcinogenesis
035101 Liver Function, Carbon Monoxide Toxicity and Oxygen Toxicity (Rodents)
035102 Chemical Carcinogens and Polysome Association with Endoplasmic Reticulum (Rats)
035103 Lead Effect on Uroporphyrinogen I Synthetase Activity (Rats)
035104 Induction and Electrophoretic Mutation Detection--Mammalian Cell Lines (Hamster)
035105 Enzymes Which Metabolize Chemical Carcinogens (Bacillus Subtilis)
035106 Study of the Mode of Action of Chemical Mutagens
035107 Physico-Chemical Studies of Radiation Effects in Cells
035108 Genetic and Comparative Studies of Enzymes
035109 Radiation Induced Cellular Mutagenesis and DNA Repair
035110 Radiation Mutagenesis and Repair in Saccharomyces
035201 Puerto Rico--Biomedical Effects of Mercury Pollution (Human)
035202 Lead Toxicity (Human)
035203 Diagnosis and Therapy in Internal Radionuclide Contamination (Human)
035204 Thyroid Cancer Screening--Recipients of Radiation Therapy in Childhood
035205 Clinical Studies of Low Dose-Rate Teletherapy
035206 Bone Seeking Internal Alpha-Ray Emitters (Human)

035301 Radiation Induced Changes in Neonatal Nervous System
 035401 Developmental Effects of Low Level Lead Exposure
 035402 In Vitro Teratologic Assay System with P-450 Metabolism
 035451 Respiratory Diseases Due to Occupational Exposure
 035452 Mineral Pneumoconioses--Pathogenesis and Pathology (Human)
 035453 Clinical Study of Industry Related Lung Disease in Vermont
 035454 Occupational Health Education Project
 035455 Hyperbaric Oxygen, Carbon Monoxide, and Ozone or Peroxide Toxicity (Rats)
 035456 Pulmonary Function Industrial Population Unexposed to Injurious Inhalants
 035457 Tolerance to Respiratory Gases in Health and Disease
 035458 Center for the Study of Chronic Airway Diseases
 035459 Immune and Fibrotic Responses to Occupational Environment
 035460 Bio-Organic Chemistry of Ozone, NO₂ and Tobacco Smoke
 035461 Pulmonary Tissue Injury and Repair
 035462 Airborne Metals and Lung Permeability
 035463 Mucociliary Transport Mechanisms
 035464 Evaluation of Anti-Fibrotic Agents in Pulmonary Fibrosis
 035465 Effect of Pollutants on Organotypic Lung Cultures
 035466 Effects of Air Pollutants on Lung Cells in Culture
 035551 Relationships of Diet and Air Pollutants to Aging
 035601 X-Irradiation, Bile Salts and Intestinal Transport
 035602 Obesity and Physiological Response to Environment
 051001 RFF Forum on the Impact on Western Waters, Fish, and Wildlife of Energy Development
 051002 Ecological Methods for Assessing Impacts to Wildlife Habitat in Areas Affected by Coal Development
 051003 Establish the Value for Fish and Wildlife of Existing Waters in Energy Development Areas
 051004 Critical Appraisal of Research Needs with Respect to Fish and Wildlife Implications of Western Water Allocation for Energy Development
 051005 Ecological and Physiological Effects of Oil on Birds
 051006 Ecological Characterization of the Chenier Plain of SW Louisiana and SE Texas
 051007 The Fish and Wildlife Impacts of Energy Development in the Four Corners Region
 051008 Determine Water Quantity Needs of Fish and Wildlife in the Upper Colorado and Upper Missouri River Basins
 051009 Survey to Determine the Extent and Location of Unallocated Water in the 11 Western States
 051010 Institutional Analysis and Historic Summary of the Trans-Alaska Pipeline
 051011 Crucial Decision Processes that Affect the Development of Western Energy Resources
 051012 State-of-the-Art Review of Rehabilitation and Reclamation of Wildlife Habitats
 051013 Distribution and Concentration of Trace Substances in Wildlife and in Wildlife Foodchains, in the Piceance Creek Basin of Colorado
 051014 Techniques for Predicting Entrainment and Impingement at Power Plants
 051015 An Evaluation of Density Dependent Mortality on Fish Populations as it Relates to the Impact of Entrainment and Impingement Losses at Power Plants
 051016 Effects of Chlorine on Egg and Larval Finfish
 051017 Management of Transmission Line Rights-of-Way for Fish and Wildlife
 051018 Bibliography: Environmental Impacts of Electric Power Generation and Transmission on Fish and Wildlife
 051019 Assessment of Low Altitude Remote Sensing Applications to Fish and Wildlife Resources on Disturbed Lands
 051020 Factors Associated with Accuracy in Sampling Fish Eggs and Larvae

051021 Assessment of Oil and Gas Development on Federal Refuges Along the Gulf Coast

051022 Coal Project Augmented Implementation Needs

052001 Ecological and Limnological Impact of the Construction and Operation of Pumped-Storage Plants

052002 Ecological Assessment of the Effects of Grand Coulee Dam Pumped-Storage Power Generation on the Ecology of Banks Lake, Washington

052003 Appraisal Study of the Geothermal Resources of Arizona and Their Value for Desalination of Water and Other Uses

053002 Taylor Creek Reclamation Study Site

053003 Otter Creek Reclamation Study Site

053004 Hanna Reclamation Study Site

053005 Phytoplankton - CS

054001 U. S. Lineaments

054002 Targeting of Mineral Explorations

054004 Fraunhofer Luminescence

054005 Earth Sciences Applications

054006 Land Use Impact on Solar-Terrestrial Energy Systems

054007 Land Use Mapping and Data Compilation, Input Processing of Land Use Maps and Data, National Program

054008 Impact of the Oil and Gas Industry on the Louisiana Coast

054012 Mined Area Reclamation and Related Land Use Planning

054013 Development and Application of a Methodology for Siting Onshore Facilities Associated with OCS Development

054021 Arctic Engineering Geology (TAPS)

054022 Geothermal Investigations, Subsurface Environmental Impact

054023 Arctic Environmental Studies Program

054027 Hydrology of the Oil Shale Area, Uinta Basin, Utah

054030 Hydrology of the Madison Limestone in North Dakota, South Dakota and Wyoming

054032 Water and Its Relation to Economic Development in the Green River and Great Divide Basins, Wyoming

054033 Effects of Mining and Related Activities on the Shallow Ground Water System

054051 Impact of Outer Continental Shelf (OCS) Development on Coastal Land and Environmental Resources

054052 Aquifer Testing, Piceance Creek Basin, NW Colorado

054053 Maxey Flats Investigation

054054 Sheffield Site Investigation, Bureau County, Illinois

054055 Heat Transfer Across an Air-Water Interface

054056 Geohydrology and Radioactive Solute Migration, Beatty Disposal Site, Nye County, Nevada

054057 Water Resources of the Powder River Structural Basin in Wyoming in Relation to Energy Development

054058 Energy Lands

054059 Remote Sensing of High Temperature Geothermal Areas of Iceland (Task within larger project: Geological and Geophysical Remote Sensing of Iceland)

054060 Fire Suppression for Offshore Platforms

054061 Inspection Procedures for Subsea Production Systems

054062 Ultrasonic Flow Meter Experiment for Offshore Oil Pipeline Leakage Detection

054063 Council on Environmental Quality: Environmental Statistics/Indicators

054064 Environmental Planning and Western Coal Development

054065 DEROCs Computer Program

055001 Substation Acoustical Study

055007 Process of Energy Routing to Minimize Impacts From Transmission Systems

055010 Study of the Effects of Transmission Lines on Raptors (Hawks, Eagles)

055011 HVdc Transmission Line Biological Study
055012 Biological Studies of an 1100/1200kV Prototype Transmission Line
060001 Software Development and Air Pollution Dispersion Model Testing
060003 Morgantown Post PRT Impact Evaluation
060005 Benefits Cost Associate Area-wide Demand Responsive Transportation
061001 Atmospheric Measurements and Monitoring (AM and M)
061002 Optimal Internal Organization for New and Existing Urban Passenger Transportation Enterprise
061003 Transport of Solid Commodities via Freight Pipeline
061004 Development of a Comprehensive Automotive Study
061005 Development of a Systems Risk Methodology for Single and Multi-Modal Transportation Systems
061007 Conduct Workshop - Health Effects of Transportation Related Air Pollutants
062002 Reduce Noise Levels of Turbojet and Turbofan Engines
062003 Development of Remote Sensing Wind and Wind Shear System
062004 Jet Noise Reduction
062007 Turbine Engine Particulate Emission Characterization
062009 Aviation Weather and NOTAM System
062010 Report on Wind Shear Profiles for Hazard Definition
062011 Concorde Air Pollution Monitoring
062012 Testing of Wind Shear Measuring Systems
062013 Effects of Atmospheric Disturbances on STOL Approach Handling Qualities
062015 Cooperative Stratospheric Aerosol Research Program
062016 Noise Levels and Field Investigations
062017 Modification of Signal Processing Interface Unit
062018 Data Interpretation on Measurement of Trace Gases
062019 Drexel Tower Data Analysis for Wind Shear
062020 Airport and Community Noise Data
062021 Development of Model to Assess Environmental Effect of Commercial Aviation's High Altitude Cruise Operations
062023 Analysis of Aircraft Effects
062024 Effects of Supersonic Transport on Air Quality
062025 Assessment of the Irritating/Debilitation Effects of Environmental Agents on Railroad Operating Crews
062026 Reanalysis of FAA/NASA Test Data to Yield Ground Impedance Data
062027 Study Characteristics of Sonic Booms and Stratospheric Winds
062028 Study of Atmospheric Mechanisms
062029 Report on Present State of Knowledge of Neurological/Neurosurgical Conditions
062030 Define and Develop a Combined Hazard Index
062031 Draft and Final Environmental Impact Statement for the Aircraft Allocation Policies
066001 Automated Guideway Transit Technology Program
066002 Socio-Economic Analyses for the Automated Guideway Transit (AGT) Program
066003 Automated Guideway Transit Technology Program Vehicle Lateral Control and Switching
070501 Identification Manual for Freshwater Snails (Gastropoda) of North America
070502 Determination of Trace Metals in Effluents by Differential Pulse Anodic Stripping Voltammetry
070503 State-of-the-Art Report on Freshwater Mussel Taxonomy and Ecology
070504 Prepare Identification Manual for Rotifers
070505 Prepare State-of-the-art Report on Toxic Substances in Aquatic Organisms

070506 Provide Methods for Measuring Radionuclides Required to Enforce Existing EPA Standards and Regulations

070507 Provide Methods for Measuring Radionuclides Needed to Gather Data on Non-regulated Pollutants Warranting Concern by EPA

070508 Fundamental Studies for Development of Electrochemical COD and TOC Analyzers

070509 Prepare Methods Manual for Field and Laboratory Studies of Aquatic Organisms

070510 Evaluation of a Flameless and Hydride Generation in the Atomic Absorption Methods for Determining Organic and Inorganic Arsenic and Selenium in Industrial Effluents

070511 Evaluation of the Tekmar LSC-1 Volatiles Sampler

070512 Develop Quality Assurance Procedures and Reference Samples for Aquatic Biology

070513 Standardize Field and Laboratory Methods for Biomonitoring

070514 Provide Methods, Samples and Procedures Required to Enforce Existing and Planned EPA Standards

070515 Develop and Operate National Laboratory Evaluation Systems

070516 Technical Services to Support the Quality Assurance Program

070517 Calibration of 90 Degrees V-Notch Weirs Using Parameters Other than Weir Head

070518 Investigate Instrumentation for Automatic Water Monitoring and Sampling and Provide Guidance and Specifications to EPA and Other Federal Agencies

070519 Develop a Program for Validating the Equivalency of Analytical Measurement Systems

070520 Production of Water Quality Control Samples for the QA Program

070521 Provide Quantitative Services to the QA Branch, EMSL-Cincinnati

070522 Provide Quantitative Analytical Services to QA Branch

070523 Development of Microbiological Quality Control Check Samples and Performance Evaluation Samples for Use in EPA Water Laboratories

070524 Research, Conduct Tests, Development of Performance Specifications, and Evaluation Methodologies for Automatic Waste Water Samplers

070525 Continuous Monitoring of Total Dissolved Gas Pressure

070526 Ion Exchange Membranes Applied to New Methods of Sampling Enrichment and Speciation in Water Analysis

070527 Comparative Selectivity Study of the Nitrogen Oxide Electrode and Solid State Nitrate Electrode for Determination of Nitrate

070528 Evaluation of the Dionex Ion Exchange Chromatograph for Natural Water Samples Analysis

070529 Provide Quantitative Analytical Services to the QA Branch

070530 New Approaches to the Preservation of Contaminants in Water Samples

070531 Develop Quality Assurance Procedures and Reference Samples for Aquatic Biology

070532 Standardize Field and Laboratory Methods for Biomonitoring

070533 Technical Services to Support the Quality Assurance Program

070534 Parametric Assessment and Optimization of Volatile Organic Analysis Methods

070535 Recovery Studies of Pesticides from Surface Waters

070536 Development and Application of an Ozone Voltammetric Membrane Electrode

070537 Provide Methods for Measuring Radionuclides Required to Enforce Existing EPA Standards and Regulations

070538 Provide Methods for Measuring Radionuclides Needed to Gather Data on Non-Regulated Pollutants Warranting Concern by EPA

070539 Uses of Energy Dispersive X-Ray to Monitor Heavy Metals in Water

070540 Comparative Selectivity Study of the Nitrogen Oxide Electrode and the Solid State Nitrate Electrode for Determination of Nitrate

070541 Arsenic and Selenium in Industrial and Domestic Effluents-Applicability of the Parr Acid Digestion Bomb Technique for Sample Pretreatment

070701 Microwave System to Prevent Hazardous Material Dike Failures

070702 Automatic Loading Shutdown Hazardous Material Spill Prevention System

070703 Document/Analyze Historical Data on Hazardous Spills

070704 Hazardous Material Spill Ultimate Disposal: Lab/Pilot Plant Biodegradation Study

070705 Control of SO₂ and Particulate
 070706 Wood Preserving Waste Recycle and Incineration System
 070707 Color Removal from NSSC Effluents by Ultrafiltration
 070708 Fugitive Dust from Oil Shale Extraction
 070709 Operation OHMSETT
 070710 Performance Testing Offshore Equipment
 070711 Oil Spill and Oil Pollution Reports II
 070712 Review and Analysis of Oil/Water Separation Literature
 070713 Petroleum Pipeline Leak Detection
 070714 Effectiveness of Surface Mine Sedimentation Ponds
 070715 Coal and the Environment Abstract
 070716 Pollution Control Guidelines for Coal Refuse Piles and Slurry Ponds
 070717 Evaluation of Groundwater Pollution from Eastern Underground Coal Mines
 070718 Evaluate Surface and Ground Water at Potential Strip Mine Sites
 070719 Vegetative Stabilization of Spent Oil Shale
 070720 Vegetative Stabilization of Paraho Spent Oil Shale
 070721 Water-Quality Hydrology of Surface-Mined Watersheds
 070722 Corehole Spacing Models Defining Potential Toxic Rock Bodies in Coal Surface Mining
 070723 Audiovisual Program for Surface Coal Mining and the Environment
 070724 Design and Performance of Head-of-Hollow Pits--A Surface Mining and Reclamation Method
 070725 Use of Vegetative Filter Zone to Control Fine-grained Sediments From Surface Mines
 070726 Determine the Effectiveness of Regulations and Practices for Handling Toxic Strip Mine Spoils to Prevent Acid Mine Drainage
 070727 Rotating Disc Biological Treatment of Acid Mine Drainage (AMD)
 070728 Importance and Functions of Alluvial Valley Floors
 070729 Transport Water Contamination in Coal-Slurry Pipelines
 070730 Predicting Acid Pollution Potential from Coal Strip Mines
 070731 Multiagency Project for Oil Spill Equipment, Phase I
 070732 Monitoring of Trace Components from the Hanna IV In-Situ Coal Gasification Test
 070733 Optimization of Land Cultivation Parameters
 070734 Predicting Response of a Natural System to Uranium Extraction, Oakville Aquifer System, Texas
 070735 Process Evaluation: Multi-Waste gasification
 070736 Environmental Assessment of Advanced Energy Conversion Technologies
 070737 Evaluation of Ames' Waste Process--An Energy Recovery System
 070738 Pilot Scale Pyrolytic Conversion of Mixed Waste to Fuel
 070739 Co-firing of Solid Waste with Coal in a Cement Kiln
 070740 Chemical Reclamation of Scrap Rubber
 070741 St. Louis Waste Co-firing with Coal Project: Equipment, Facilities and Environmental Evaluation of Meramac Power Plant
 070742 Workshop on Waste-to-Energy Technology
 070743 Refuse Derived Fuel Sources and Utilization
 070744 Effects of Burning Densified Forms of Municipal Solid Waste Derived Fuels in Industrial, Utility, and Institutional Stoker-Fired Boilers
 070745 Pyrolysis of Agricultural Residues and Feedlot Wastes in a Reactive Steam Atmosphere
 070746 Environmental and Technological Analysis of the Use of Surplus Wood as an Industrial Fuel
 070747 Environmental Effect of Utilizing Solid Waste as a Supplementary Power-Plant Fuel

070748 Assessment of Combustion of Refuse Derived Fuels
 070749 Remote Control Hovercraft or Vehicle to Plug Hazardous Leaks
 070750 Protection and Restoration of Shorelines from Oil Spills
 070751 Environmental Guidelines for Onshore Impact of Offshore Petroleum Development
 070752 Evaluation/Development of Foams for Mitigating Air Pollution from Hazardous Spills
 070753 Technical Awareness in the Nonferrous Metals Industry--Pilot Study (TANMIPS)
 070754 Hazardous Material Spill Ultimate Disposal: Assessing of Material/Methods Matrix
 070755 HM Spill Ultimate Disposal: Lab/Pilot Demo Sodium Fluxing and Classification
 070756 Demonstration of Connector Wells
 070757 Potential Impacts to Ground-Water and Surface Water Quality and Quantity from Proposed Energy Development on the Northern Cheyenne Reservation--Montana
 070758 Preparation of Plans and Specifications for MERL/IERL T and E Facility
 070759 New Amine Carbamate Gelation Techniques for Use in Oil Spill Recovery Operations
 070760 Full-Scale Demonstration of Hyperfiltration for Closed-Cycle Operation in Textile Dying and Finishing Plant
 070761 Survey of Geothermal Environmental Regulations and Control Technology
 070762 Preliminary Environmental Assessment of Solar Energy Systems
 070763 Environmental Impact Statement for a Solar Power Station
 070764 Environmental Assessment of Waste-to-Energy
 070765 Conversion of Solid Waste to Polymer Gasoline
 070766 Waste Heat Recovery Potential for Environmental Benefits in Selected Industries
 070767 Technology Assessment of Energy Development in Appalachia
 070768 Evaluation of Toxic Components and Their Concentrations in Kraft and Sulfite Mill Effluents
 070769 Neutralization/Precipitation Manual of Practice
 070770 Activities Associated with Energy Resource Extraction
 070771 Removal of Toxic Material From Mine Drainage
 070772 Effects of Surface Configuration in Water Pollution Control on Semi-Arid Mined Lands
 070773 Environmental Monitoring and Assessment of Coal Strip Mining and Reclamation in The Four Corner Area
 070774 Trace and Potentially Toxic Elements Associated with Uranium Deposits in South Texas
 070775 Evaluation of 3 Permeable Limestone Seals Via Construction of 3 Earthen Dams
 070776 Geochemistry of Cadmium and Other Selected Heavy Metals as Related to Coal Strip Mining
 070777 Major Inorganic Manufacturing Industrial Segments
 070778 Inorganic Chemicals Producers Data Base
 070779 Source Assessment, Maleic Anhydride Manufacture
 070780 Protective Equipment for Spill Response Personnel
 070781 Field Identification Kit for Spilled Hazardous Materials
 070782 Pilot Scale Testing of Activated Carbon Treatment of Hazardous Materials Spills
 070783 1978 National Conference on Control of Hazardous Material Spills
 070784 Hazardous Material Spill Ultimate Disposal--Lab/Pilot Demonstration Sodium Fluxing and Classification
 070785 Characterization of High Temperature Decomposition Behavior of Pesticides and Other Organic Materials
 070786 Measurement of Volatile Chemical Emissions from Wastewater Basins
 070787 Sulfide Precipitation of Heavy Metals
 070788 Methods Manual for Oil Spill Source Identification
 070789 Method of Quantitation for Petroleum Oils in Water
 070790 System Concept Evaluation--Densified Refuse--Derived Fuels
 070791 Energy Consumption from Present Pollution Control Technology

- 070792 Evaluation of Waste-to-Energy Processes
- 070793 Program Briefings on Energy Conserving Industrial Process Changes
- 070794 Environmental, Economic, and Conservation Aspects of Integrated Energy Use Applications
- 070795 Development of Sampling Plan for Geothermal Manifestations
- 070796 Assessment of Large-Scale Photovoltaic Materials Production
- 070797 Control Technology Survey of Paraho Retort
- 070798 Environmental Assessment of Oil Shale Processes
- 070901 Evaluation of Existing Leaching Tests
- 070902 Analysis of Llangollen Landfill Leachate Samples
- 070903 Environmental Effects and Control of Various Flue Gas Cleaning (FGC) Sludge Disposal Options
- 070904 Evaluation of Fixation of Arsenic Bearing Wastes
- 070905 Role of Aquatic Communities in Evaluating Strategies, Establishing Standards and Monitoring Programs for Water Quality Management
- 070906 Ammonia Toxicity to Fishes
- 070907 Laboratory and Field Evaluation of Chemically Stabilized Sludges
- 070908 Assessment of Cover Materials for Solid and Hazardous Waste Landfills
- 070909 Capturing the Sun Through Bioconversion
- 070910 Beneficial Use of Sludge as a Fertilizer and Soil Conditioner on Agricultural Land
- 070911 Demonstrate and Evaluate Reclamation, Stabilization and Erosion Control of Strip Mined Land for Agricultural Use Using Municipal Sewage Sludge
- 070912 Studies of Existing Land Application Systems
- 070913 Effect of Soil Properties and Previous Metal Additions on the Solubility of Metals
- 070914 User Acceptance of Wastewater Sludge Compost
- 070915 High Energy Electron Irradiation of Wastewater Liquid Residuals
- 070916 Analyses for Sludges for Helminth Ova (Ascaris)
- 070917 Microbiological Study of Sludge Composting in Southern California
- 070918 Thermoradiation Treatment of Sewage Sludge Using Reactor Waste Fission Products (Updated NRP)
- 070919 Removal of Organics Using Oxidants
- 070920 Cost of Water Utility Management
- 070921 Chlorination of Aquatic Humic Substances
- 070922 Study Formation of Organic Byproducts of Disinfection
- 070923 Neutralization of Inoperative Waste Disposal Sites
- 070924 The Development of Laboratory Test Procedures to Determine the Calorific Value of Refuse-Derived Fuels (RDF) by Bomb Calorimetry
- 070925 Effect of Moisture Regimen on Solid Waste Stabilization
- 070926 Study of Vegetation Problems Associated With Refuse Landfills
- 070927 Use of Simulation for Characterizing Transport in Soils Adjacent to Land Disposal Sites
- 070928 Hazardous Waste Sampling, Analysis, and Compatibility Study
- 070929 Detection, Occurrence, Characterization, and Persistence of Microbes in Landfill Leachates
- 070930 Preparation of Appendix H for Areawide Assessment Procedures Manual
- 070931 Evaluation of Ames Solid Wastes Resources--An Energy Recovery System
- 070932 Evaluation of Selected Biodegradation Techniques and/or Ultimate Disposal of Organic Materials
- 071001 Air Exposures and Their Effects--Refinement of Public Health Risk Assessment on Regulated and Nonregulated Transportation Pollutants
- 071002 Air Exposures and Their Effects--Refinement of Public Health Risk Assessment on Regulated and Nonregulated Transportation Pollutants
- 071003 Air Exposures and Their Effects--Refinement of Public Health Risk Assessment on Regulated and Nonregulated Transportation Pollutants

- 071004 Physiological Effects of Sulfuric Acid and Sulfate Particulates in Rats and Guinea Pigs
- 071005 Multi-route Exposure and Their Effects--Identification of the Health Effects of Non-Pesticide Organic and Inorganic Substances
- 071006 Influence of Factors Found in Hard and Soft Waters on the Development of Cardiovascular Disease
- 071007 Effects of Cadmium on Renovascular Function
- 071008 Development of a Tissue Selective in Vivo Bioassay for Environmental Agents Producing DNA Damage
- 071009 Relevance of Drinking Water Quality to Atherosclerosis
- 071010 Absorption and Distribution of Low Levels of Cadmium--A Comparison Between Water and Food
- 071011 Occurrence and Effects of Inorganic Contaminants in Drinking Water
- 071012 Effect of Environmental Contaminants of Cell Mediated Immunity
- 071013 The Effects of Trace Metals on the Developmental Patterns of Intermediary Metabolism in the Brain
- 071014 Environmental Assessment Interface and Research Studies
- 071015 Investigation of Effects of Prolonged Inhalation of Nickel-Enriched Fly Ash in Syrian Golden Hamsters
- 071016 Health Effects of Energy By-Products on Drinking Water
- 071017 Health Impacts of Acid Mine Drainage on Drinking Water Supplies in Western Coals
- 071018 Effects of Energy Consumption Related Pollutants on Pulmonary Fibrosis
- 071019 Subcommittee on the Geochemical Environment in Relation to Health and Disease (GERHD)
- 071201 Standards for and Methods of Analysis of Rainwater for Acidity
- 071202 Aerosol Characterization of Ambient Particulate Samplers Used in Environmental Monitoring Studies
- 071203 Los Angeles Catalyst Study
- 071204 Who Collaborating Center on Air Pollution Control
- 071205 Mobile Source Benzene Monitoring
- 071206 NO2 Reclassification Study
- 071207 Collaborating Center on Background Air Pollution Data
- 071208 Improvement and Evaluation of Methods for Sulfate Analysis
- 071209 Ambient Air Monitoring Reference and Equivalent Methods Program
- 071210 Quality Assurance in Support of Energy Related Monitoring in Western USA
- 071211 General Analytical Services
- 071212 Assessment, Control and Health Effects of Indoor Air Pollution
- 071213 Reactor Use at NC State University
- 071214 Certified Synthetic Reference Samples for Precipitation Analyses II
- 071215 Environmental Monitoring Support for Measurement of Air Pollutants
- 071216 National Forest Ozone Study
- 071217 Air Pollution Analyzer Testing and Technical Support Services for References and Equivalent Method Determination
- 071218 Quality Assurance for Environmental Pollutant Monitoring
- 071219 Standardization and Quality Assurance of Stationary Source Emission Methodology
- 071301 Assessment of Environmental Emissions from Oil Refining
- 071302 Closed-Cycle Dyeing-Full Scale Demonstration
- 071303 Reclamation of Textile Warp Sizes Using Thermal Precipitation
- 071304 Energy Conservation Through Point Source Recycle with High Temperature Hyperfiltration
- 071305 Non-Personal, Quick Reaction Engineering and Technical Services
- 071306 Environ. Assessment/Systems Analysis and Program Support for Fluidized-Bed Combustion
- 071307 Miniplant Studies in Support of the Fluidized-Bed Combustion Program
- 071308 HC/sub x/ Emissions from Fluidized Combustion
- 071309 Development of CAFB Gasifier for Generation of Clean Fuel for Use in an Existing or New Combuster

071310 Preliminary Environmental Assessment CAPB-Lignite and Coal
 071311 Engineering Support of the CAPB Demonstration Plant Program
 071312 CAPB Demonstration
 071313 Environmental Assessment/Systems Analysis Utilizing Residual Oil
 071314 Hazardous Substances in Residual Oil
 071315 Design and Construction of a Fluidized-Bed Coal Combustion Sampling and Analytical Test Rig
 071316 Catalytic Desulfurization and Denitrogenation
 071317 Interim Support for Horner City Coal Cleaning Demonstration
 071318 Demetallization of Residual Oils (Phase V Denitrogenation Catalyst Evaluation)
 071319 Environmental Assessment of Effluents from Coal Liquefaction
 071320 Control Technology Development for the Products and By-Products of Fuel Conversion/Utilization Systems
 071321 Bench Scale Study of the Meyers Process for Coal Desulfurization
 071322 Reactor Test Project for Chemical Removal of Pyritic Sulfur from Coal
 071323 Development Program for Treatment of Coal to Produce Low-Sulfur, Solid Fossil Fuel
 071324 Coal Desulfurization by Microwave Energy
 071325 Pollutants from Synthetic Fuels Production
 071326 Measurement of High Temperature, High Pressure Processes
 071327 Studies Related to the Organic Chemical Analysis of Industrial Samples
 071328 Review of Control Technologies for Open Sources of Particulate Emissions
 071329 Effects of High Temperature and Pressure on Particle Collection Mechanisms
 071330 New Concept for Fine Particle Control at High Temperature and Pressure
 071331 Fine Particle Control by Hot Filtration
 071332 Use of Electrostatically Charged Fog for Control of Dust from Open Sources
 071333 Photochemical Study of NO_x Removal from Stack Gases
 071334 Fine Particle Emission Information System Development
 071335 Nonpersonal, Quick Reaction Engineering and Technical Services
 071336 Methodologies for Utilization of Environmental-Impact-Assessment Data
 071337 Field Testing: Application of Combustion Modification Techniques to Control Pollutant Emissions from Industrial Boilers
 071338 Preparation for Guidelines for Adjustment of Atmospheric Base Burners for Residential and Commercial Heating
 071339 Fuel Decomposition and Flame Reactions in Conversion of Fuel Nitrogen to NO_x
 071340 Environmental Assessment of Stationary Source NO_x/sub x/ Control Technologies
 071341 Application of Advanced Combustion Modification Techniques to Selected Industrial Process Equipment
 071342 Field Testing: Application of Combustion Modification Technology to Industrial Combustion Equipment
 071343 Field Testing: Application of Combustion Modification to Control Pollutant Emission from Power Generation Combustion System
 071344 Evaluation of Emissions and Control Technology for Industrial Stoker Boilers
 071345 Combustion Research on Coal Nitrogen and Particulate Organic Matter
 071346 Environmental and Energy Assessment of Afterburner Combustion System
 071347 Combustor Design Concepts for NO_x Control, Advanced LBG Fired Systems
 071348 Fundamental Combustion Research Applied to Pollution Control
 071349 Investigation of NO_x/sub x/--Nitrate-Sulfate Production in Laboratory Flames
 071350 Advanced Combustion Systems for Stationary Gas Turbine Engines
 071351 Investigation of Aerodynamic Phenomena in Pollution Control
 071352 Staged Combustion for NO_x Control and Enhanced SO₃ Emissions

- 071353 Pilot Scale Evaluation of Advanced Combustion Control Technology for Fossil and Waste Fuels
- 071354 Evaluation of Pollution Emissions from Industrial Burners Using Low-Medium Btu Gases from Coal
- 071355 Systems Evaluation of the Use of Low Sulfur Western Coal in Existing Small and Intermediate Size Boilers
- 071356 Design Optimization and Field Verification of an Integrated Residential Furnace
- 071357 Effects of Fuel Properties and Atomization Parameters on NO/sub x/ Control for Heavy Liquid Fuel-Fired Package Boilers
- 071358 Development of Catalyst and System Design Criteria for Catalytic Combustors with Application to Stationary Sources
- 071359 Evaluation of Fundamental Combustion Phenomena
- 071360 Emissions Control Technology for High Pressure Combustion Systems
- 071361 Direct Measurement of Combustion Factor Effects on Secondary Particulate Formation
- 071362 Characterization of Emission and Combustion Performance of Alternate Fuels
- 071363 Characterization and Design Evaluation for Commercial Combustion Systems
- 071364 Potential Beneficial Use of Industrial Waste Heat for Greenhouse Production of Bedding Plants, Cut Flowers and Potted Plants
- 071365 Wet/Dry Cooling Tower Study
- 071366 Disposal of By-Products from Nonregenerable Flue Gas Desulfurization Systems
- 071367 An Assessment of the Technology of Disposal and Utilization of Flue Gas Cleaning Products
- 071368 Wet/Dry Cooling Tower Test Module Program
- 071369 Lime/Limestone Scrubbing Waste Conversion Pilot Study
- 071370 Prototype Study of Lime/Limestone Scrubbers for SO₂ and Dust Removal Advanced Testing and Data Evaluation
- 071371 Sulfur Dioxide Oxidation in Scrubber Systems
- 071372 Dewatering Principles and Equipment Design Studies
- 071373 Disposal of High Alkaline Fly Ash Sludge in a Deoiled Mine Seam
- 071374 Development of Environmental Assessment and Control Technology Quality Assurance Programs
- 071375 Sampling and Analysis Methods for POM and other Organic Pollutants
- 071376 Standardization of Operating Performance of a Droplet Measuring Device
- 071377 The Development of Fugitive Emissions Sampling Techniques
- 071378 Sampling and Analysis of Reduced and Oxidized Species in Process Streams
- 071379 Emissions Assessment of Conventional Combustion Systems
- 071380 Operation of Pilot Scale ESP Versatile Fabric Filter and Baghouses
- 071381 Baghouse Study as an Emission Control on a Solid Waste Incinerator Boiler
- 071382 Demonstration of High Efficiency-High Throughput Baghouse
- 071383 Studies of Dust Cake Formation and Structure in Fabric Filtration
- 071384 High Velocity Fabric Filtration
- 071385 Fine Particle Control with University of Washington Electrostatic Scrubber
- 071386 Fine Particulate Control by High Gradient Magnetic Separation (HGMS)
- 071387 Technology Transfer for Scrubbers
- 071388 Design and Construction of a Versatile Fabric Filter Test Unit
- 071389 Design, Fabricate, and Install a Pilot Scale Electrostatic Precipitator
- 071390 Survey of the Use and Emission of Selected Carcinogens in New Jersey
- 071391 Quick Reaction Engineering and Technical Services
- 071392 Engineering Services in Support of Environmental Protection Agency Specific Work Assignments
- 071393 Non-Personal, Quick Reaction Engineering and Technical Services
- 071394 Non-Personal, Quick Reaction Engineering and Technical Services

071395 Non-Personal, Quick Reaction Engineering and Technical Services
 071396 Non-Personal, Quick Reaction Engineering and Technical Services
 071397 Quick Response Non-Personal Technical and Engineering Services
 071398 Non-Personal, Quick Reaction Engineering and Technical Services
 071399 Non-Personal, Quick Reaction Engineering and Technical Services
 071400 Operation of IERL-RTP Test Facilities
 071401 Measurement and Evaluation Procedures for Environmental R and D
 071402 Project Definition Phase Study for an Integrated Assessment of Coal-Based Energy Technology
 071403 Integrated Assessment of Coal-Based Energy Technologies--Project Definition Phase
 071404 Integrated Assessment of Coal Based Energy Technology--Project Definition Phase
 071405 Activated Carbon for Control of Service Station Gasoline Emissions
 071406 Providing Quick Reaction Engineering and Technical Services
 071407 Guidelines for Application of Coke Oven Pollution Control Systems
 071408 Sampling and Analysis of Emissions from Coke Oven Doors
 071409 Blast Furnace Cast House Emission Control Technology
 071410 Development and Demonstration of Concepts for Improving Coke oven Door Seals
 071411 Organic Emissions from Sinter Plants--Determination of Causes and Methods of Abatement
 071412 Treatment of Gaseous Emissions from Steel Plants Containing Small Concentrations of Hydrocarbon Vapors
 071413 Kinetics of Evolution of Sulfur-Bearing Gases from Blast Furnace Slags
 071414 Source Assessment Program
 071415 Multi-Media Environmental Assessment of Ferrous Metallurgical Processes-Related Pollution Control Technologies
 071701 Invariant Modeling of Atmospheric Turbulence and Diffusion
 071702 Formation of Atmospheric Aerosols
 071703 Development and Evaluation of a Prototype Device to Analyze Ambient Sulfuric Acid
 071704 Development of a Continuous SO₂ Monitor for Mobile Sources
 071705 The Continuous Monitoring of Particulate Sulfur Compounds by Flame Photometry
 071706 Sulfuric Acid Monitor
 071707 Mobile Aerosol Laboratory
 071708 Rural and Urban Background Measurements of SO₂, H₂S, NO_x and NH₃
 071709 Develop Sulfuric Acid Generator for Ultrafine Particles
 071710 Research in Air Pollution Meteorology
 071711 Research in Air Pollution Meteorology
 071712 Mechanisms of Photochemical Reactions in Urban Air
 071713 Research in Air Pollution Meteorology
 071714 Oxidant/Precursor Relationships
 071715 Research in Air Pollution Meteorology
 071716 Mechanisms of Photochemical Reactions in Urban Air
 071717 Deposition Model
 071718 Formation of Atmospheric Aerosols
 071719 Application of Fourier Transform Spectroscopy to Air Pollution Problems
 071720 Rural Oxidant Studies and the Role of NO_x in Rural Oxidant Formation
 071721 Outdoor Simulation of Air Pollution Control Strategies
 071722 Experimental Determination of "Dry Deposition" Rates
 071723 Computer Modeling of Simulated Photochemical Smog

- 071724 Kinetic Study of Simulated SO₂, NO/sub x/, RH-Polluted Atmospheres
- 071725 Fate of NO/sub x/ and Transport of Oxidant
- 071726 Aerosol Modeling
- 071727 Matrix Isolation Studies Involving the Oxidation of Sulfur Dioxide
- 071728 Chemical Reactions of Atmospheric Halogenated Species
- 071729 Development and Evaluation of a Mesoscale Photochemical Air Quality Model
- 071730 Rural Oxidant Studies and the Role of NO_x in Rural Oxidant Formation
- 071731 Research in Air Pollution Meteorology
- 071732 Investigation of the Dependence of Ambient NO₂ on Precursor Emissions
- 071733 Aerosol Dynamics
- 071734 Complex Terrain (Fluid Model Study)
- 071735 Optical Effects of Atmospheric Aerosol
- 071736 Gas-Aerosol Interaction Study
- 071737 Long Range Transport Modeling
- 071738 Mesoscale Sulfur Balance Studies
- 071739 Northrop Support Services
- 071740 Aerosol Analysis for Regional Air Pollution Study
- 071741 Experimental Study of Aerosol Formation Mechanisms in a Controlled Atmosphere
- 071742 Interpretation of Data from Biogenic Sulfur Field Studies/MISTT Support
- 071743 Modification and Documentation of Air Quality Simulation Models
- 071744 Reactions of Dissolved Pollutants in Aqueous Solutions
- 071745 Determination of Confidence Limits and Accuracy of Available Air Quality Simulation Models
- 071746 Residence Time of Anthropogenic Pollutants and Long-Range Transport
- 071747 Sulfur Budget in Large Plumes
- 071748 Computer Modeling of Simulated Photochemical Smog
- 071749 Smog Chamber Study of Conversion of SO₂ as a Function of Reactant Concentration
- 071750 Clinch River Model Study (Fluid Modeling Study)
- 071751 Development of Methods and Analysis of Dichotomous Particulate Sampler Data from RAMS
- 071752 Meteorological Sub-Models for AQSMS: Wind and Temperature Profiles
- 071753 Develop Performance Criteria and Specifications for Particulate Monitors
- 071754 Independent Performance Audits on RAMS Station Sensors
- 071755 Performance Criteria for Opacity Measurements in Oil-Fired Power Plants and Portland Cement Plants
- 071756 Identification and Measurement of Inorganic Compound Emissions
- 071757 Kinetic Study of Simulated SO₂, NO/sub x/, RH-Polluted Atmospheres
- 071758 Theoretical Data Base for Quantitative Analysis of Empirical Data on Molecular Composition of Particles by Raman Scattering
- 071759 Development of a Model of SO₂ Oxidation in Smog
- 071760 Transformation and Transport of Air Pollutants
- 071761 Sulfur Budget in Large Plumes
- 071762 Aircraft Measurements in Support of Project MISTT, Midwest Interstate Sulfur Transformation and Transport
- 071763 Formation of Atmospheric Aerosols
- 071764 Technique for the Measurement of Aerosol Size Distribution and Carbon and Sulfate Content
- 071765 Study of the Identity and Sources of Denver's Aerosols
- 071766 Intercomparison of Methods to Collect and Analyze Aerosols
- 071767 Interpretation of Data from Biogenic Sulfur Field Studies/MISTT Technical Support

071768 Northrop Support Services
 071769 Mesoscale Sulfur Balance Studies
 071770 Northrop Support Services
 071771 Halocarbon Analysis in the St. Louis, Missouri, Metropolitan Area
 071772 Development and Application of Multiple Tracer Techniques for the Study of Pollutant Transport and Dispersion in the Atmosphere
 071773 Northrop Support Services
 071774 International Symposium on Sulfur in the Atmosphere, Dubrovnik, Yugoslavia
 071775 Determine the Character and Origin of Aerosols and Development of Fine Particulate Methodologies
 071776 Structure and Reactivity of Adsorbed Oxides of Sulfur
 071777 Reactions of Sulfur Dioxide in Aerosols
 071778 Northrop Support Services
 071779 Northrop Support Services
 071780 Aerometric Field Study in Vicinity of a Large Power Plant in Complex Terrain
 071781 Independent Audit of Clinch River Field Study
 071782 Aircraft Measurements in Support of Aerosol Research Studies of Sulfur Transformation and Transports
 071783 Evaluation of Particulate Measurement Methods at Stationary Source Simulator and in the Field
 071784 Atmospheric Analysis by Gas Chromatography and Infrared Spectroscopy
 071785 Size Distribution and Other Physical Properties of Particle Emission from Selected Sources Categories
 071786 Studies on the Effect of Environmental Variables on the Collection of Atmospheric Nitrate and Development of a Sampling and Analytic Method
 071787 Continuous Monitor of Mass Concentration of Particulate Emission from Stationary Sources
 071788 Mesoscale Sulfur Balance Studies
 071789 Instrumentation to Measure Particle Size in Source Emissions
 071790 Investigation of Particulate Matter Monitoring Using Contact Electricity
 071791 Aerosol Microscopy
 071792 Quantitative Analysis of Polynuclear Aromatic Hydrocarbons in Liquid Fuels
 071793 Morphology and Composition of Particulates Emitted by Stationary Sources
 071794 Aerosol Characterization
 071795 Detailed Organic and Inorganic Analysis of Particle Emissions from Selected Sources
 071796 Morphology and Composition of Particulates Emitted by Mobile Sources
 071797 Development of a Field Instrument for Continuous On-Stack Monitoring of Mass Concentration of Particulates in Stack Emissions
 071798 Development of an In-Situ Monitoring Technique for Molecular Comp. of Particulate Emissions
 071799 X-Ray Optical Techniques for the Chemical Analysis of Particulate Pollutants
 071800 Northrop Support Services
 071801 Northrop Support Services
 071802 Measurement of H₂SO₄ Emission from Selected Sources
 071803 Evaluation of Measurement Technology for Size and Composition of Particle Emissions
 071804 Measurement of SO₂, SO₃ and H₂SO₄ from Fossil-Fuel Fired Combustion Sources
 071805 Northrop Services, Inc.
 071806 Biogenic Emission of Aerosol Precursors
 071807 Design of Stack Sampling System with Dilution
 071808 Development of In-Stack and Remote Plume Opacity Measurement Technology
 071809 Evaluation of a System for Direct Output of Pollutant Mass Emission Rate Data
 071810 Develop Calibration and Analysis Techniques for XRF Analysis of Sulfur and Toxic Elements

- 071811 Identification and Characterization of SO₂ Sources Using Remote Sensors
- 071812 Study of the Chemistry of Ion Selective Electrodes and Its Application to Quasi-Real Time Monitoring of Particulate Nitrates in the Atmosphere
- 071813 Evaluation of Sulfuric Acid Dewpoint Monitor
- 071814 Development and Testing of Instrumental Techniques for Nitrogen Containing Compounds
- 071815 Elemental Quantitative Analysis of Air Particulate Matter by Proton Scattering
- 071816 Obtain High Resolution Spectra of H₂SO₄ in Gas Phase
- 071817 Development of a Two Stage Particle Fractionator by Filtration Through Nuclepore Sciences
- 071818 Develop Optical Techniques for Aerosol Sizing
- 071819 Development of Particulate Emissions Sampling Technology
- 071820 Study of Interface Problems in Sampling and Measurement of Particulate Pollutants in Hot Stack Bases
- 071821 Develop and Test Improved Methods for Measuring CO, Hydrocarbons and Halogenated Hydrocarbons
- 071822 Coordination of Test Programs and Modifications and Improvements to the Stationary Source Simulator Facility
- 071823 Evaluate an Improved Manual Particle Size Fractionator
- 071824 Research on Air Sampling Filter Media
- 071825 Develop Aerosol Size Distribution Monitor Using Acoustical Laser Doppler Effect
- 071826 Development of Nonextractive Electro-Optical Instrument for NO_x Emission Analysis
- 071827 Develop Analytical Techniques for Measurement of Nitric Acid
- 071828 Development of GPC Instruments for Gaseous Pollutant Measurements
- 071829 Development of a Flashlamp-Induced Fluorescence Ambient Air NO₂ Monitor
- 071830 Investigate Interferences in Optical Infrared Measurement Techniques
- 071831 Develop and Evaluate Monitors for Detection of Sulfur Containing Gaseous Compounds
- 071832 Develop Tapered Element Oscillating Micro Balance (TEOM) for Ambient Mass Measurement
- 071833 Feasibility Study of Giant Aerosol Particle Sizing by Holography
- 071834 Determination of SO₂ Mass Emission Rates by Remote Sensing
- 071835 Development of a Portable Lidar Plume Opacity Instrument
- 071836 SC₂ and SO₄ Methods Evaluation
- 071837 Characterization of Sulfur Emissions
- 071838 Precipitation Scavenging
- 071839 Atmospheric Optical Properties
- 071840 1977 Field Study to Assess Long Range Oxidant Transport
- 071841 Small Chamber Studies on Reactivity of Organic Compounds
- 071842 Develop GC-MS Computer Instrumentation
- 071843 Organic Composition of Particles Collected on Filters
- 071844 Evaluation of Dichotomous Samplers
- 071845 Develop Technique for Measuring Total Carbon and Organic Soluble Carbon in Fine and Coarse Particles
- 071846 Develop Improved Methods for Calibration of Ozone and NO_x Monitors
- 071847 In Vitro Assay of Relative Toxicity of Diesel-Engine Exhausts
- 071848 Northrop Support Services
- 071849 Northrop Support Services
- 071850 Northrop Support Services
- 071851 Oxidant Precursor Relationships
- 071852 Study of OX/HC/NO_x
- 071853 Reactions of Oxy Radicals in the Atmosphere
- 071854 Fate of Aromatics in Photochemical Smog

071855 Experimental Study of Aerosol Formation Mechanisms in a Controlled Atmosphere

071856 Kinetic Modeling of Chamber Data

071857 Relationship Between Air Quality, Emissions and Meteorology

071858 Synoptic Meteorology and Air Quality Patterns in the St. Louis RAPS Program

071859 Reactions of Oxy Radicals in the Atmosphere

071860 Evaluation of the Emission of Natural Hydrocarbons from Forest Vegetation by Micrometeorological Methods

071861 Measurement of Tropospheric and Stratospheric Trace Gases by Gas Chromatography

071862 Natural Hydrocarbon Emissions

071863 IR Analysis for Tropospheric Halogenated Compounds

071864 Numerical Study of Halocarbon Chemical Reaction on Stratospheric and Tropospheric Ozone and Other Photochemical Processes (Abbrev.)

071865 Meteorological Sub-Models for AQSMS--Radiative Transfer

071866 Two-Dimensional, Finite-Difference Line Source Model

071867 Liaison with Model Users

071868 Evaluation of Highway Air Quality Simulation Models

071869 Measurement of Boundary Conditions in Regional Modeling

071870 Plume Rise in Calm, Linearly Stratified Environment

071871 Diffusion Around Buildings

071872 Evaporation Study

071873 Surface Exchange Study

071874 Meteorological Sub-Models for AQSMS-Turbulence Models

071875 Clinch River Model Study

071876 Vertical Variation of Diffusion Parameters

071877 Air Pollution Climatology

071878 Instrumental Detection of Viruses

071879 Visibility Loss Model

071880 National Visibility Study

071881 Research in Air Pollution Meteorology

071882 Aircraft Turbine Emission Measurements

071883 Characterization of Emissions From Advanced Automotive Power Plant Concepts

071884 Formation of Atmospheric Aerosols

071885 Formation of Atmospheric Aerosols

071886 Los Angeles Field Modeling and Measurement Study

071887 Northrop Support Services

071888 ACP Technical Analysis and Programming Service

071889 ACP Technical Analysis and Programming Service

071890 Quality Assurance

071891 Modification of Livermore Air Quality Model for Use in St. Louis

071892 Long Path Air Pollution Monitor Evaluation

071893 Smog Chamber Study of Conversion of SO₂ as a Function of Reactant Concentration

071894 Select Research Group in Air Pollution Meteorology

071895 Development of Atmospheric Models and Modeling Capability

071896 Research in Air Pollution Meteorology

071897 Resistance Laws of the Urban Planetary Boundary Layer

071898 Highway Study

071899 AQSM--Model Evaluation and Verification
 071900 Temporal and Spatial Variation of Turbulence in an Urban Area
 071901 Representativeness of Meteorological Measurements in Urban Areas
 071902 Objective Analysis of Wind Fields
 071903 Energy Budget of Concrete, Blacktop and Soil
 071904 Vertical Distribution of Wind, Temperature and Air Quality in the Urban Boundary Layer
 071905 Computation of Urban Energy Budgets
 071906 Aircraft Measurements in Support of Project MISTT, Midwest Interstate Sulfur Transformation and Transport
 071907 Ambient Hydrocarbon and Ozone Measurements Near a Refinery
 071908 Field Evaluation of Source Sampling Technology for Trace Elements and POM
 071909 Report on Sampling and Analysis Techniques for Condensable Emission from Stationary Sources
 071910 Measurement of POM and Other Organic Pollutant Emissions
 071911 Sampling Technique for Measurement of Total Arsenic and Selenium
 071912 Evaluation of EM Methods for Measurement of Airborne Asbestos Concentrations and Evolvement of an Optimal Procedure
 071913 Real-Time Monitor for Airborne Asbestos Fiber Concentration
 071915 Field Evaluation of a Prototype Acid Mist Monitor
 071916 Design and Construction of a Prototype X-ray Diffraction Instrument for Analysis of Asbestos Fibers in Air and Water
 071917 Development of Low Speed Gas Flow Measurement by Optical Convolution Velocimetry
 071918 Electronics Engineering and Prototype Design/Fabrication Support
 071919 Northrop Support Services
 071920 Dye Laser Lidar System for Remote Monitoring of Air Pollution Produced by Stationary Sources, Area Sources, and Present in Ambient Conditions
 071921 Northrop Support Services
 071922 Development of Hydrogen Cyanide Monitors for Vehicle Emission
 071923 Measurement of Halogenated Pollutants and Other Trace Gases in the Troposphere In Situ by Long-Path Infrared Absorption Spectroscopy
 071924 Analysis of Nitrosamines
 071925 Northrop Support Services
 071926 Northrop Support Services
 071927 Report on Characterization of Toxic Trace Metals from Stationary Sources
 071928 Report of Characterization of Organic Emissions from Petrochemical Sources
 071929 Laboratory and Field Evaluation of Hydrocarbon Classifier System
 071930 Characterization of Gaseous Emissions from Stationary Sources by Remote Sensing
 071931 Northrop Support Services
 071932 Polynuclear Aromatic Compounds--Synthesis and Purification
 071933 Northrop Support Services
 071934 Ion Chromatography of Aromatic Amines
 071935 Northrop Support Services
 071936 Sampling and Analysis of Organic and Inorganic Materials of High Physiological Impact
 071937 Develop GC-MS Computer Instrumentation
 071938 Modification and Evaluation of New Procedures for the Assay of Several Poly Aromatic Hydrocarbons (PAH's)
 071939 Engineering and Development of Dichotomous Sampler
 071940 Developed Polymer Standards for Calibrating X-Ray Fluorescence Spectrometers
 071941 Electronics Engineering, Prototype Design and Instrument Fabrication

071942 Multiple Trace Gas Environmental Monitor by Mass Spectrometry

071943 Modify Eight Dichotomous Samplers

071944 Develop Optical Method for Monitoring Nonmethane Hydrocarbons

071945 Development of Automated Sampler-Concentration System for Halocarbons

071946 Fabricate and Deliver Five Portable Aerosol Dosimeters

071947 Northrop Support Services

071948 ACP Technical Analysis and Programming Service

072001 Development of Bioindicators to Nitrogen Dioxide and Sulfur Dioxide Exposures

072002 Effect of Controlled Exposure to H₂SO₄ Aerosol on Immune Response

072003 Toxicological Effects of Small Particle Sulfuric Acid Aerosol

072004 Effects of Controlled Sulfuric Acid Mist on Human Immunity

072005 Clinical Chemical Effects of Sulfuric Acid Aerosol Mist Exposure on Humans

072006 Study the Effects of Inhaled Sulfates Alone and in Combination with SO₂ Pulmonary Defense

072007 Development of Sensitive Biochemical and Behavioral Indicators of Trace Substance Exposure

072008 Study of the Use of Leucocyte Metabolism as a Health Effects Indicator

072009 Comparative Methylation Chemistry of Platinum, Palladium and Lead

072010 Compare Pulmonary Carcinogenicity of Pt-Group Compounds and of Pb in Association with Polynuclear Aromatics Using In Vivo Hamster System

072011 Mucus Glycoproteins Secreted by Tracheal Explants from Rats Exposed to Pollutants

072012 Estimating Population at Risk to Various Air Pollution Exposures

072013 SIMS Three Year Study on Statistics and Environmental Factors in Health

072014 ST Segment Analysis of Electrocardiogram in Subject Testing

072015 Human Cardiopulmonary and Cytopathic Effects of O₃, NO₂, and Aerosols

072016 Behavioral Effects of Oxidant, CO and NO₂ on Human Subjects

072017 Effect of Etiologically-Defined Respiratory Infections on Lung Function and Its Growth in an Area of Low Air Pollution

072018 Pathophysiology of CO Exposure in Ischemic Heart Disease

072019 Adaptation Effects of Low Level O₃ Exposure on Normal Humans

072020 Operation and Maintenance of the Community Health Air Monitoring Program (CHAMP) Including Mobile Units

072021 Intramural Champ Activities Related to Environmental Monitoring Program

072022 Evaluation of Aerometric Sensors for the Champ System

072023 Effects of Air Pollutants on Respiratory Defense Mechanisms

072024 Effect of CO, O₃, NO₂ and Aerosols on Human Cardiovascular Physiology

072025 Interaction of Various Pollutants on Causation of Pulmonary Disease

072026 Studies on the Effects of Air Pollution Exposures on Mortality Variation in Major Metropolitan Areas

072027 Incidence of Chromosomal Aberrations in the Peripheral Lymphocytes of College Students as a Function of Photochemical Air Pollution

072028 Pilot Study of Acute Bronchitis and Its Relation to Air Pollution

072029 Effects of Pollutants on Immunological Functioning at the Primary Site of Oxidant Impact--Pulmonary Cells

072030 Nasal-Pharyngeal Uptake of O₃ and NO₂

072031 Effects of Controlled Ozone Exposure on Human Immunity

072032 Clinical Chemical Effects of Oxidant Exposure in Humans

072033 Analysis of Chromosomal Abnormalities in Persons Exposed to O₃, NO₂ and H₂SO₄ Aerosols

072034 Development of Chronoepidemiologic Methods with Reference to Cardiopulmonary Conditions

072035 Chemical Analysis and Characterization of Ambient Particulate Matter

- 072036 Incidence of Chronic Disease in Humans Exposed to Photochemical Air Pollution
- 072037 Isolated Test Systems--Development of In Vitro and In Vivo-In Vitro Systems for Determining Potential Toxicity of Environmental Agents
- 072038 Bio-indicators of the Effect of Cations Associated with Sulfate Particle Aerosols
- 072039 Ultrastructure and X-Ray Microanalysis of Macrophages Exposed to Noncriteria Pollutants with Emphasis on Certain Metal Compounds
- 072040 Influence of Particulate Physico-Chemical Characteristics on Pulmonary Cell Systems
- 072041 In Vitro and In Vivo-In Vitro Systems for Determining Potential Carcinogenicity and Co-Carcinogenicity of Environmental Agents
- 072042 Isolated Test Systems--In Vitro and In Vivo-In Vitro Systems for Determining Potential Mutagenicity of Environmental Agents
- 072043 Effects of H₂SO₄ and Other Toxicants on Immunological Responses in Laboratory Animals
- 072044 To Evaluate the Health Effects of Controlled Low Levels of Sulfuric Acid Aerosol Exposure in Man
- 072045 Operation and Maintenance of the Community Health Air Monitoring Program to Quantitate Air Pollution Exposure in Selected Health Study Areas
- 072046 Impact of Environmental Pollutants on the Plasma Membrane of Alveolar Macrophages
- 072047 Comparative Particulate Deposition and Clearance in Laboratory Animals
- 072048 Biological Effects of Sulfates
- 072049 Biological Effects of Sulfates
- 072050 Physical-Chemical Behavior and Respiratory Effects of Oxides of Sulfur Aerosol Mixtures
- 072051 Determine Effect of Interaction of Oxidant and Sulfate on Production of Lung Lesions from Acute and Chronic Exposures
- 072052 Chemical Analysis of Respirable Particulate Matter
- 072053 Distribution of Cadmium Levels in Biologic Samples--A Cooperative International Study of Significance of Cd in Air Pollution (Abbrev)
- 072054 Kinetics, Distribution and Biochemical Studies of Heavy Metals
- 072055 Kinetic, Distribution and Biochemical Studies of Heavy Metals
- 072056 Development of Kinetic Isotope Techniques for Evaluation of Organ Function
- 072057 Teratologic, Reproductive, Genetic and Pathologic Effects of Heavy Metal
- 072058 Hypertensive Effects of Chronic Low-Level Exposure of Rhesus Monkeys to Cadmium
- 072059 Multigenerational Exposure of Animals to Se and Effects on Growth, Development, and Reproduction
- 072060 Development and Application of Reproductive Hormonal Screening Techniques for Heavy Metal and Organic Exposure Studies
- 072061 Development and Application of Mammalian Oviculture Techniques for Toxicologic Screening
- 072062 Immunologic Effects of Heavy Metals
- 072063 Potential Amplification of Effects of Pb Exposure in High Risk Populations
- 072064 Application of Motor Activity to Screening of Sub-Acutely Exposed Neonates
- 072065 Neurophysiologic and Behavioral Studies
- 072066 Operant Behavior of Primates and Rodents Exposed to Heavy Metals
- 072067 Neurochemical Effects of Heavy Metals and Organics--Neurophysiologic and Behavioral Studies
- 072068 Provide Information on the Characteristics of Ambient Organic Vapors in High Chemical Production
- 072069 Assessment of the Relationship Between Cancer Mortality and Population Exposure to Selected Environmental and Industrial Factors
- 072070 Fourier Transform NMR of Metals of Environmental Significance
- 072071 Compare Effects of Respirable Particles, Gases and Mists Using Small Airway Resistance in Donkeys as the Model for Pulmonary Irritation
- 072072 Effect of Material from Alternate Energy Sources on Whole Animal Defense Systems
- 072073 Effect of Pollutants from Coal Burning and Coal Gasification on the Immune System
- 072074 Evaluate Effects of Chronic or Intermittent Exposure to Respirable Particles and Mists Using Mouse Pulmonary Infectivity Model

- 072075 Determination of the Effects of Material from Alternate Energy Sources on Upper Respiratory Tract Clearance Mechanisms
- 072076 Implementation of Screening Tests for Potentially Hazardous Airborne Particulate Materials Using the Alveolar Macrophage Test System
- 072077 Improved Scoring of Chemical Transformation of C3H/10T1/2 Cells
- 072078 Enzymatic Characterization of Metabolic Activation and DNA Binding of Presumptive Carcinogens in Short-Term Assay Systems
- 072079 Studies on the Relationship Between Carcinogen Metabolism in the Alveolar Macrophage and the Induction of Lung Cancer
- 072080 Effects of Sulfuric Acid Aerosol Upon Respiratory Function in Normal Human Subjects
- 072081 Effect of Low Levels of Sulfuric Acid Mist Exposure on Human Pulmonary Function
- 072082 Effect of Coal Gasification Products on the Pulmonary Defense System Against Infectious Disease (Bacterial)
- 072083 Determine Effects of Pollutants from Alternate Energy Sources on Pulmonary Antiviral Mechanisms
- 072084 Air Pollution and Cardiopulmonary Functions
- 072085 Operation and Maintenance of the Community Health Air Monitoring Program to Quantitate Air Pollution Exposure in Selected Health Study Areas
- 072086 Biological Assessment of Exposure to Sulfur Dioxide and Acid Sulfate
- 072087 Environmental Mutagens Studies Utilizing a Drosophila Test System
- 072088 In Vitro Screening of Selected Air Pollutants for Potential Carcinogenicity
- 072089 Development of an In Vitro Test System for the Evaluation of Teratogens
- 072090 Studies to Improve the Reliability and Sensitivity of Bacterial Mutagenesis as a Screen for Environmental Carcinogens
- 072091 Mutagenic Screening of Environmental Chemicals Using Drosophila
- 072092 Carcinogenesis and Mutagenesis Research on Pesticides and/or Toxic Substances--Development of an Inhalation Toxicology Program
- 072093 Determination of the Effects of Material from Alternate Energy Sources on Upper Respiratory Tract Clearance Mechanisms
- 072301 Biosynthesis of N-nitroso Compounds from Trace-Level Precursors
- 072302 Determine Chemical Forms and Transport Phenomena in Soil for Mercury
- 072303 Determine Kinetics of Methylmercury Formation in Various Soil Types
- 072304 Evaluate Significance of Mercury as a Foliar Pollutant
- 072305 Determine Chemical Form and Pathway of Mercury in Plants
- 072306 Aircraft Support for Special RAPS Field Studies
- 072307 Technical Support in Air Quality Monitoring and Assessment
- 072308 Atlanta Airport Study--Soil and Vegetation Damage From Aircraft Operations
- 072309 38-State Phytoplankton Reports
- 072310 San Juan River Basin Study
- 072311 Technical Support of Water Quality of Interdisciplinary Programs
- 072312 NonPoint Source Surface Water Monitoring Technology for Oil Shale Development
- 072313 Demonstration and Evaluation of Prototype Visibility Monitoring System
- 072314 Development of Environmental Keys
- 072315 Differential Absorption Laser System
- 072316 Investigate the Potential and Demonstrate the Capability of an Operational System to Image Non-Visible Gases of Interest to EPA
- 072317 Light Aircraft Sensor Pod (Enviro-Pod)
- 072318 Development of a Two-Frequency Downlooking Airborne Lidar System
- 072319 Monitoring Systems Development for Operation Applications--Laserfluorosensor for Chlorophyll
- 072320 Optimum Air Quality Monitoring Network Design Methodology
- 072321 Develop and Apply Biological Monitoring Methods

072322 Aerial Remote Sensor Data Collection Processing and Analysis for Environmental Monitoring

072323 Contract Support Services to EPIC, Vint Hill Farms Station

072324 Provide Quality Control and Quality Control Procedures for Overload Remote Sensing Techniques Employed in Support of Agency Monitoring Programs

072325 Geothermal Systems/Environmental Assessment of Extraction, Conversion and Waste Disposal

072326 Geothermal Environmental Impact Assessment (Fauna)

072327 Geothermal Environmental Impact Assessment--Plants and Soils

072328 Monitoring Guides for H₂S and Non-Condensable Hazardous Gaseous Emissions/Geothermal Systems

072329 Advanced Waste Heat Control-Waste Utilization Program

072330 Monitoring the Impact of Western Coal Strip Mining and Oil Shale Extraction on Groundwater Quality

072331 Energy-Related Radiological Pollutant Monitoring Techniques Development

072332 Collaboratively Test Methods for Measuring Uranium in Environmental Samples

072333 Energy Related Radiological Monitoring Quality Assurance

072334 Development of Background Evaluations for Validations of Groundwater-Quality Monitoring Methodology

072335 Acquire from NASA and put into use, the Data Analysis System (DAS) for Multispectral Information

072336 Energy-Related Overhead Monitoring and Techniques Development

072337 Development of Techniques for Remote Monitoring of Organic Pollution in Surface Waters

072338 Energy Related Water Monitoring Data Integration

072339 Four Corners Ambient Air Monitoring Network

072340 Energy-Related Ambient Air Quality Monitoring in the Western Energy Development Area

072341 Animal Investigation Program

072342 Aircraft Emission Impact Monitoring

072343 Technical Support for Collection, Processing and Analysis of Environmental Samples and Data

072344 In Vitro Solubility of Plutonium, Americium, and Uranium as Influenced by Chemical Form

072345 Influence of Microbial Activity on the Solubility and Availability of Plutonium

072346 Absorption, Distribution, and Excretion of Actinide Elements by Dairy Cattle

072347 Grazing Studies on Actinide Contaminated Ranges of the Nevada Test Site

072348 Biological Transport of Cm and Np in Ruminants

072349 Exposure/Dose Models Applied to Environmental Carcinogens

072350 Biosynthesis of N-Nitroso Compounds from Trace Level Precursors

072351 Determine Chemical Forms and Transport Phenomena in Soil for Mercury

072352 Phytoplankton Identification and Enumeration

072353 Oxidant Monitoring Network Design in Tampa/St. Petersburg

072354 Provide Quality Control and Quality Control Procedures for Overhead Remote Sensing Techniques Used in Agency Monitoring Programs (Abbrev)

072355 Off-Site Radiological Safety Program for Nuclear Weapons Testing

072356 Off-Site Radiological Safety Program for Plowshare

072357 Provision of Standards, Reference Materials, and Quality Control Procedures Needed to Enforce Existing EPA Standards

072358 Provision of Standards, Reference Materials, and Quality Control Procedures Needed to Enforce Planned EPA Standards

072359 Optimization of Aerial Infrared Survey Techniques

072360 Application of Aerial Multispectral Techniques for Quantitative Determination of Turbidity

072361 Deterministic Wind Field Submodel for Use in Phoenix, AZ, and Application of a Sea Breeze Wind Field Model to Tampa and St. Petersburg

072362 Optimum Air Pollution Sampling Network Selection in Urban Areas--Test and Evaluation

072363 Design of Integrated Monitoring Systems That Are Pollutant Oriented

072364 Laboratory Performance and Intercomparison Studies

072365 Assessment of Monitoring Technology for Hazardous Material Spills

072501 Referee Techniques for Multielement Analysis

072502 Identify Organics in Petroleum Refinery Wastewaters

072503 Input, Deposition, and Post Depositional Conversion of Arsenic

072504 Determination of Various Degradation and Transformation Processes for Specific Water Pollutants

072505 Sorption Properties of Soils and Energy-Related Pollutants

072506 Identify and Measure Chemical Elements and Volatile Organics in Energy Related Wastes

072507 Microbial Degradation of Polychlorinated Biphenyls (PCB's) in Soils and Water

072508 Study of the Mechanism and Rates of Volatilization of Contaminants from Water Bodies

072509 Microbial Degradation of Chlorinated Hydrocarbon Pesticides in Fresh Water Ecosystem

072510 Evaluative Models for Major Nutrients

072511 Fate of Cadmium in Artificial Streams

072512 Impact of Nutrient and Sediments on Surface Waters in the U.S.

072513 Modeling Transport and Behavior of Pesticides and Other Toxic Organic Materials in Aquatic Environments

072514 Development of Comprehensive Methods to Determine Natural or Background Levels of Pollutants in Watercourses

072515 New Sampling Theory for the Measurement of Ecosystem Structure and Function

072516 Development of Dynamic Two-layer Model for Stratified Estuaries

072517 Comprehensive Assessment of Organics in Drinking Water

072518 Simulation of Nitrogen Movement and Transformation in the Root Zone

072519 Non-Point Pollution Studies on Agricultural Land Use Types Prevalent in the Coastal Plain Zone of Maryland

072520 Nitrogen Cycling in Forested Ecosystems

072521 Development of a Physically Based Nutrient and Pesticide Transport Model for Artificially Drained Cropland

072522 Retention and Transformations of Phosphorus and Selected Pesticides in Soils and Sediments

072523 Development of a Generalized Planning Model for Evaluation of Alternative Forest Management Practices--Engineering Phase

072524 Development of a Generalized Planning Model for Forest Management--Management Phase

072525 Extraction and Separation Techniques

072526 Separation of Polar Compounds by LC

072527 Analysis of Polar Compounds by Liquid Chromatography

072528 Establish GC/FTIR Techniques for ab initio Identification of Organic Pollutants

072529 Capillary Columns in GC/MS Analysis

072530 Plasma Emission Spectrometry Technique Development

072531 X-Ray Fluorescence Instrumentation

072532 Plasma MS Evaluation

072533 Development of Search Procedures

072534 Chemical Speciation

072535 Asbestos Sampling Techniques

072536 Instrumental Quantification of Organic Compounds

072537 Development of Agricultural Practice Assessment Methodology

072538 Effectiveness of Vegetation Buffer Strips for Controlling Sediment and Other Water Pollutants from Disturbed Watersheds

072539 Develop Computer Program to Record Frequency Distribution of Organics

072540 Lab Model Ecosystem for Evaluating Toxic Substances, Fate and Effects

- 072541 Evaluation of Microcosm Techniques for Assessment of Chemical Transport and Effects in Aquatic and Terrestrial Ecosystems
- 072601 Powdered Carbon-Activated Sludge-Filtration Processes for Petroleum Refinery Wastewater
- 072602 Effectiveness and Cost of Activated Carbon Absorption of Toxic Compounds from Petroleum Refinery Wastewaters
- 072603 State of the Art of Wastewater Aquaculture
- 072604 Soil Filtration of Sewage Effluent of a Rural Area
- 072605 Dissemination of Information Concerning Animal Production Effects on Environmental Quality
- 072606 Animal Production Waste Survey
- 072607 Mineralogy of Overburden as related to Groundwater Degradation in the Strip Mining of Coal
- 072608 Infiltration Land Treatment of Stabilization Pond Effluent
- 072609 Determination of Kinetics of Phosphorus Mineralization in Soils Under Oxidizing Conditions
- 072701 Effects of SO₂ and NO_x on the Soil Ecosystem
- 072702 Nutrients and Acidity in Wet and Dry Precipitation
- 072703 Seasonal Cycles in Body Composition, Organ System Function, and Energetics of Grassland Birds Near Colstrip, Montana
- 072704 Impact of Ambient Oxidant Pollutants on the Mixed Conifer Forest Ecosystem
- 072705 Impact of Oxidants Air Pollutants on a Western Coniferous Forest Ecosystem
- 072706 Impact of Oxidant Air Pollution on a Western Coniferous Ecosystem
- 072707 Develop Analytical Methodologies Useful for Environmental and Energy Research Problems
- 072708 The Nature of Plant Resistance to Air Pollution Effects
- 072709 Response of Scotch Pine to Acid Mist Droplets Effect in Producing Short Needle and/or Stunted Growth
- 072710 Response of Scotch Pine to Sulfuric Acid Mist at Various
- 072711 Controlled Field Studies to Strengthen Secondary Air Quality Standards for Sulfur Dioxide
- 072712 Exposure of Ponderosa Pine and Douglas Fir to SO₂ During Dormancy
- 072713 Effects of Acid Rain on Model Forest Ecosystems
- 072714 Production of Ethylene and Other Hydrocarbons by Plants
- 072715 Toxic Effects of Selected Inorganic Pollutants on Western Aquatic Species
- 072716 Toxic Effects of Selected Organic Pollutants on Western U.S. Aquatic Species
- 072717 Alaskan Oil Seeps: Their Chemical and Biological Effects on the Environment
- 072718 Assessment of the Effects of Bottom Disturbance on the Environment of a Clear Subarctic Stream
- 072719 Effects of Non-Gaseous Airborne Pollutants from Coal-Fired Power Plants
- 072720 Effects of Chronic SO₂ Fumigation on Primary Producers and Invertebrate Consumers in a Mixed Prairie Ecosystem
- 072721 Use of Lichens as Predictors and Indicators of Air Pollution from a Coal-Fired Power Plant
- 072722 Investigation of the Effects of Coal-Fired Power Plant Emission on Tissue Structure of Selected Bird Species: Birds as Indicators
- 072723 Monitoring Plant Community Changes Due to Fossil Fuel Power Plants in Southeastern Montana
- 072724 Oil Spills: Effect on Arctic Lake Systems
- 072725 Effects of Petroleum Hydrocarbons on Fatty Acid Metabolism in Marine Fishes: A Possible Sublethal Effect on the Physiology of Temperature Acclimation
- 072726 Aerosol Characterization Research--Colstrip, Montana
- 072727 Oil Movement on Soil Active Layer
- 072728 Characterizing the Air Quality in the Colstrip, Montana Area
- 072729 Montana Coal-Fired Power Plant Bioenvironmental Study
- 072730 Impact of Oxidant Air Pollutants on a Western Coniferous Forest-Ecosystem
- 072731 Subsystems of Forest Ecosystems
- 072732 Modeling in Terrestrial Ecosystem

- 072733 Air Response of Plants to Air Pollutants
- 072734 Economic Assessment of Crop Losses Caused by Air Pollution
- 072735 Effects of CD on Nitrogen Fixation by *Alnus Rubra*
- 072736 Chronic Ozone Effects on Ponderosa Pine, Dwarf Mistletoe Association
- 072737 Response of Ponderosa Pine to Chronic Ozone Exposures
- 072738 Effects of Pollutants on a Soil Ecosystem
- 072739 Response of Birds to Environmental Stress
- 072740 Support Services at Port Howes Ranger Station
- 072741 Definition of Alaskan Wetlands by Floristic Criteria
- 072742 Procedures for Quantitative Ecological Assessments in the Intertidal Benthic Environment
- 072743 Effects of Chromium and Nutrient Pollutants on Natural Phytoplankton
- 072744 Determination of Statistical Methods to Identify Tropho-Dynamics Involvement in Recovery
- 072745 Relationship Between Black Mangrove Forest and Estuarine Waters
- 072746 Production in Coastal Salt Marshes of Southern California
- 072747 Assessment of the Application of Multivariate Analysis in Ecological Investigations of Water Pollution
- 072748 Southeast Florida Ocean Outfall Study
- 072749 Consequences of Crude Oil Contamination on Cold Climate Salt Marshes and Inshore Ecosystems-Phase I-Field Site Reconnaissance
- 072750 Technical Studies of Cook Inlet Coastal Wetlands
- 072751 Study of Tidal Datums as They Relate to the Upper Limit of Coastal Wetlands
- 072752 Development of Criteria for Wetland Protection
- 072753 Biological Indices for Assessing the Effects of Pollutational Stress on Marine Biotic Assemblages
- 072754 Development of a Multispecies Benthic Bioassay for the Toxicity of Dredged Materials
- 072755 Spatial-Temporal Variations in the Structure of Macrobenthic Communities in the New York Bight South of Fire Island, New York
- 072756 Determination of Response of Aquatic Ecosystems to Chemical-Physical Factors in Estuaries
- 072757 Water Quality Effects Caused by Waste Discharges
- 072758 Impact of the Metula Oil Spill on the Subtidal Macrobenthos of the Straits of Magellan
- 072759 National Eutrophication Survey
- 072760 Relationship of Forest Management to Stream Productivity
- 072761 Effects of Stream Perturbations on Subarctic Freshwater Systems
- 072762 Modeling in Aquatic Ecosystem
- 072763 Socio-Economic Impact of Lake Improvement Projects at Mirror/Shadow and White Clay Lakes
- 072764 Trophic Dynamics and Freshwater Ecosystems
- 072765 Effects of Heavy Metals on Pacific Northwest Aquatic Species
- 072766 Transition Zone Between Marsh and Uplands
- 072767 Ecosystem Responses to Alternative Pesticides in the Environment
- 072768 Ecosystem Responses to Alternative Pesticides in the Terrestrial Environment--A Systems Approach
- 072769 Terrestrial Microcosm Project
- 072901 Develop Methods for Identification and Concentration Measurement of Fine Particles in Aquatic Organisms
- 072902 Toxic Effects on the Aquatic Biota from Coal and Oil Shale Development
- 072903 Continuous Flow Bioassays Using Natural Periphyton Communities with Emphasis on the Effects of Coal Leachate
- 072904 Organic Leaching and Particulate Dispersion from Coal
- 072905 Analytical Procedures for Measuring Vinylidene Chloride
- 072906 Chronic Toxicity of Toxicant Mixtures to Fish and Aquatic Invertebrates

- 072907 Ventilation Patterns of Bluegill Sunfish (*Lepomis Macrochirus*)
- 072908 Automated System for Monitoring Ventilatory Movements of Fish
- 072909 Cough Response of Bluegill Sunfish (*Lepomis Macrochirus*) Exposed to Phenols
- 072910 Relationships of Cadmium Complexation to Toxicological Responses of Aquatic Life
- 072911 Biological Activity/Toxicity of Copper Forms in Natural Waters
- 072912 Significant Alteration of a Chemical Structure by Biological Methods
- 072913 Environmental Research Laboratory--Duluth
- 072914 Development of Behavioral Monitoring System for Aquatic Insect Bioassays
- 072915 Determine the Significance of Benthic Organisms Living in Hydrosol on Fate and Distribution of Persistent Pesticides in Aquatic Systems
- 072916 Develop Automated Analytical Methods for Detecting Phenols in Water
- 072917 Comparative Thermal Responses of Young-of-the-Year Largemouth Bass from Northern and Southern Populations
- 072918 Effects of Large Concentrations of Suspended Fine Particles (Red Clay) on Availability and Toxicity of Copper to Fathead Minnows
- 072919 Effects of Lowered Diel Fluctuating Oxygen on Black Crappie Spawning Success
- 072920 Effects of Reduced Fluctuating Dissolved Oxygen Concentrations on the Survival and Growth of Juvenile Channel Catfish and Yellow Perch
- 072921 Development of Toxicity Tests with Early Life Stages of Fish
- 072922 Development and Evaluation of Methods for Detection of Bacterial Indicators of Pollution in Water
- 072923 Atmospheric Input of Trace Metals to Lake Michigan
- 072924 Optimal Sampling Strategies for Water Quality in Large Lakes
- 072925 Accumulation and Fate of Potentially Hazardous Substances in Recent Sediments of Lake Huron and Saginaw Bay
- 072926 Polychlorobiphenyls in Precipitation in Lake Michigan Basin
- 072927 Nutrient and Plankton Relationships in Northern Lake Michigan
- 072928 Cladophora Measurements Using Remote Sensing
- 072929 Determination of Atmospheric Phosphorus Addition to Lake Michigan
- 072930 Impact of Zooplankton Grazing Upon Phytoplankton in Eutrophic Saginaw Bay and Western Lake Erie
- 072931 Assessment of Nearshore Benthic Microinvertebrates in Lake Michigan
- 072932 Comparative Kinetic Studies of Nutrient Uptake and Growth in the Great Lakes Phytoplanktons
- 072933 Survey of Nutrients and Hazardous Substances in Saginaw Bay, Michigan
- 072934 Inputs of Hazardous Organics from the Atmosphere to Saginaw Bay
- 072935 Sampling, Characterization Plus Analysis Manual for Dredged and Fill Materials
- 072936 Heavy Metal Accumulation in Benthic Algal Communities
- 072937 Nutritional Ecology of Great Lakes Cladophora Sp.
- 072938 Analysis of Planktonic Diatoms from Open Lake Michigan Water
- 072939 Growth of Cladophora Glomerata--Relationships to Trace Nutrients, Herbivores and Ecosystem Functioning
- 072940 Application and Development of Eutrophication Planning Models for Lake Ontario
- 072941 Effect of Cyanide on Freshwater Invertebrates
- 072942 Development of Procedures Based on Hepatic Toxicities to Evaluate Effects of Chronic Exposure of Fishes to Environmental Contaminants
- 072943 Renewal of Water Temperature Studies at the USEPA Monticello Field Station
- 072944 Development of Bioassay procedures for Defining Pollution of Harbor Sediments
- 072945 Structure Activity Correlation Studies
- 072946 The Generalization of Water Quality Criteria Using Chemical Models
- 072947 Chronic Bioassays with Daphnids as a Tool for Predicting the Toxicity of Complex Industrial Effluent to the Biota of a Receiving Stream

- 072948 Analysis of Nutrient and Toxic Chemical Fluxes in Great Lakes Sediment
- 072949 Ventilatory Responses of Fish to Fluctuating Applications of Toxicants
- 072950 Development and Testing of an Automatic Fish Tracking and Monitoring System for the Monticello Ecological Research Station, Monticello, Minnesota
- 072951 Influence of External Factors of Toxicity of Iron and Copper Cyanide
- 072952 Factors Controlling the Geographical Distribution of the Asian Clam, *Corbicula*, in North America
- 072953 Toxicity of Selected Controlled Release Pesticides to Fish
- 072954 Microcosm and Theoretical Evaluation of Substitute Chemicals
- 073001 Chemical Modeling of Metallic Waste Disposal
- 073002 Standard Program for Environmental Impact Assessment: Phase I Ichthyoplankton Sampling
- 073003 Sublethal Effects of Oil on Behavior and Chemical Senses of Marine Animals
- 073004 Chemical Studies Directed Toward Ecological Damage Assessment of Petroleum Discharges into the Marine Environment
- 073005 Culture of Marine Algae for Experimental Use
- 073006 Effects of Thermal Addition on Marine Fouling Community Dynamics
- 073007 Behavioral and Physiological Indices of Pollution Stress in Zooplankton and Invertebrate Larvae
- 073008 Development of a Benthic Bioassay System Employing Natural Assemblages
- 073009 Effects of Thermal Additions on the Dynamics of Fouling Communities at Beaufort, N.C.
- 073010 A Facility for the Experimental Analysis of Coastal Marine Ecosystems
- 073011 Kaneohe Bay--Responses of a Tropical Estuary to Relation of Sewage Stress
- 073012 Neutron Activation Analysis of Marine Samples
- 073013 National Marine Pollution Monitoring Program
- 073014 Contaminant Flux from Marine Sediments and Dredge Spoil Deposit
- 073015 Evaluation of Microcosm Responses to Various Anthropogenic and Environmental Factors
- 073016 Nutritional Requirements of Marine Larval and Juvenile Fish
- 073017 Development of Chronic Whole Life Cycle Bioassays
- 073018 Interlaboratory Bioassay Intercalibration
- 073019 Modulating Environmental Variable Bioassay System
- 073020 Cytogenetic Effects of Chemical Toxicants on Selected Indicator Systems
- 073021 Mutagenic Effects of Chemical Toxicants on Cultured Mammalian Cells
- 073022 Adenosine Triphosphate (ATP)
- 073023 Trace Element Analysis of Marine Systems
- 073024 Density Dependent Factors and Their Effects on Growth and Survival of Spotted Seatrout and Lined Sole Larvae (Abbrev)
- 073025 Nutritional Requirements of Marine Larval and Juvenile Fish
- 073026 Development and Application of Laboratory Microcosms for Perturbation Experiments of Coastal Marine Ecosystems
- 073101 Water Quality and Eutrophication Studies in Santa Rosa Sound in the Proximity of Escambia and Santa Rosa Counties, Florida
- 073102 Novel Techniques for Concentration and Separation of Toxic Substances from Estuarine Waters
- 073103 Investigation of Enzymatic Screening Tests for Mutagens in Environmental Pollutants
- 073104 Environmental Assessment and Bioassay Development
- 073105 Isolation and Study of Chloro-Organics Resulting from Chlorination of Seawater
- 073106 Effects of Petroleum Compounds on Estuarine Fishes
- 073107 Environmental Effects of Offshore Drilling and Oil on the Marine Environment
- 073108 AEP Technical Support Services
- 073109 Determine Toxicity to Marine Organisms of Petrochemicals and Energy Related Organic Solvents Derived from Offshore Activities and Ocean Dumping

- 073110 Genetic Variation and Resistance to Carcinogens in Natural Waters
- 073111 Sublethal Effects of Chlorine on Marine Vascular Plants and Decapod Crustaceans
- 073112 Detection of Carcinogenicity of Oils in Seawater; Use of Hybrid Fish and Food Chains
- 073113 Determine the Dynamics of Dispersion and Dissipation in Marine and Estuarine Waters and the Effects on Marine and Estuarine Organisms
- 073114 Marine Protozoan Microsomal Activation of Oil Pollutants to Mutagens
- 073115 Effects of Drilling Fluids and Oil in Corals Occupying Hard-Bank Communities
- 073116 Effects of Compounds Produced from Petroleum Utilization on Selected Marine Invertebrates with Particular Emphasis on Neoplasia and Carcinogenesis
- 073117 Toxic, Sublethal and Latent Effects of Selected Petroleum Hydrocarbons and Barium Sulfate on Marine Organisms
- 073118 Rivulus Marmopatus: An Investigation of its Potential as a Cancer Research and Chemical Carcinogen Screening Organism
- 073119 Food Webs, Populations, and Productivity in a Southeast Coastal Marine Marsh
- 073120 An Investigation of the Ecological Effects of Residual Ozone to Selected Estuarine Species
- 073121 Susceptibility of Genetically Defined Stock of Fish to Chemical Carcinogens
- 073122 Design of Experiments, Statistical Analyses, and Evaluation of Aquatic Research Data
- 073123 Determine the Species Level Effects of Selected Pesticides and Other Organic Compounds on Marine and Estuarine Organisms
- 073124 Detection of Carcinogenicity of Oils in Seawater--Use of Hybrid Fish
- 073125 Mathematical Models of Fates of Pollutants in Estuaries
- 073126 Role of Sediments in the Storage, Movement and Biological Uptake of Kepone in Estuarine Environments
- 073127 Determination of the Environmental Impact of Several Substitute Chemicals in Agriculturally Affected Wetlands
- 073128 Determine Dynamics of Polluted and Unpolluted Estuarine Ecosystems
- 073129 Determine the Effects of Selected Complex Organic Wastes on Estuarine and Marine Organisms and Ecosystems
- 073130 Dynamics of an Estuary as a Natural Ecosystem
- 073131 Effects of Pollutants on Microbial Activities in Estuarine Surface Films
- 073132 Determine the Organism and Ecosystem Level Effects of Anti-Fouling Biocides and Disinfectants on Estuarine Organisms and Ecosystems
- 073133 Determine the Effects of Selected Pesticides and Other Organic Compounds on Marine and Estuarine Ecosystems
- 073134 Determine the Pesticide-Microbial Interactions in the Estuarine Environment
- 073135 Determine Significance of Occurrence in Marine Estuarine Environments of Carcinogenic Compounds, with Emphasis on Organic Compounds
- 073136 Relationship of Virus Occurrence and Environmental Effects to Marine and Estuarine Organism Response to Chlorinated Hydrocarbons (Abbrev.)
- 073137 Determination of the Site(s) of Action of Selected Pesticides by an Enzymatic-Immunobiological Approach
- 074001 Support for the Advisory Center on Toxicology, National Academy of Sciences
- 074101 The Impact of Coal-Fired Power Plants on the Environment
- 075901 Ammonia Toxicity to Fishes
- 075902 Technology Assessment of Western Energy Resource Development
- 080001 Early and Late Effects of Energy-Related Pollutants on Experimental Animals, External Radiation Toxicity. Neutron and Gamma-Ray Toxicity Studies
- 080002 Early and Late Effects of Energy-Related Pollutants on Experimental Animals, Carcinogenesis. Modulation and Mechanisms
- 080003 Early and Late Effects of Energy-Related Pollutants on Experimental Animals--Radiation Pathology and Oncology
- 080004 Early and Late Effects of Energy-Related Pollutants on Experimental Animals; Physiological and Immunological Measures in Aging Rodents

- 080005 Detection and Characterization of Damage in Physiological, Cellular and Molecular Systems--Biochemistry
- 080006 Detection and Characterization of Damage in Physiological; Cellular and Molecular Systems; Biophysics
- 080007 Genetic Effects--Mammalian Genetics--Genetic Effects of High LET Radiations
- 080008 Genetic Effects--Molecular and Radiation Genetics
- 080009 Early and Late Effects of Energy-Related Pollutants on Experimental Animals, Radiation Toxicity in Dogs
- 080010 Combating Detrimental Effects, Therapy of Poisoning by Radioactive and Nonradioactive Metals
- 080012 Effects of Energy-Related Pollutants on Humans Exposed to Radionuclide Intake
- 080013 Characteristics, Transport and Conversion of Energy-Related Pollutants in the Environment: Great Lakes, Fate of Pollutants Related to Energy Conversion
- 080014 Environmental Effects of Energy-Related Processes and Pollutants on the Environment: Great Lakes, Effects of Pollutants on Biota
- 080015 Carbon-14 Assays in the Stratosphere and Krypton-85 Monitoring at Savannah River
- 080016 Fundamental Environmental Processes Related to Energy, MAP3S Boundary Layer Investigations
- 080017 Effects of Sulfur Oxides on Crop Plants
- 080018 Fish Impingement at Power Plant Water Intakes
- 080019 Radiological and Chemical Physics--Molecular Radiation Physics
- 080021 Assessment of Health Effects of Energy Systems, Analysis and Evaluation of the Biomedical Costs of Energy Production
- 080022 Social Costs of Energy Supply Systems
- 080023 Land and Fresh Water Environmental Sciences, National Environmental Research Park
- 080024 Follow Up Assessment of Previously Mined Areas in Northern Great Plains, Southwest, and Midwest Coal Fields
- 080025 Land and Fresh Water Environmental Sciences, Behavior of Transuranic Elements in Natural Waters
- 080026 Fundamental Environmental Processes Related to Energy, Coastal and Off-Shore Siting
- 080027 Detection and Characterization of Damage in Physiological, Cellular and Molecular Systems, Mammalian Cell Biology
- 080028 Early and Late Effects of Energy-Related Pollutants on Experimental Animals--Development of In Vitro Assay Systems for Oncogenesis
- 080029 Characteristics, Transport and Conversion of Energy-Related Pollutants in the Environment--Plutonium Behavior in the Miami River Watershed
- 080030 Assessment of Environmental Conditions of the Great Lakes in Relation to Power Production
- 080031 Energy-Related Regional Studies Program
- 080032 Environmental Effects of Energy-Related Processes and Pollutants on the Environment: Cooling-Pond Thermal Transfer Studies
- 080033 Molecular and Cellular Radiobiology
- 080037 Liposome Encapsulation
- 080038 Early and Late Effects of Energy-Related Pollutants on Experimental Animals, Skin and Pulmonary Carcinogenesis
- 080039 Early and Late Effects of Energy-Related Pollutants on Experimental Animals, Environmental Interactions with the Aging Process
- 080040 Genetic Effects, Molecular Genetics and Environmental Mutagens
- 080041 Levels of Activity and Doses from Ingestion of Great Lakes Water
- 080042 Physics and Chemistry of Pollutant Interactions in the Environment, Molecular Physics and Chemistry Basic to Environmental Research
- 080043 Development of Improved Monitoring Equipment for On-Line Detection and Characterization of Airborne Plutonium Aerosols
- 080044 Environmental Data Integration, Information System for Surface Mining Utilizing Data Gathered on State Extraction/Reclamation Permits
- 080046 Combating Detrimental Effects, Therapy of Poisoning by Radioactive and Nonradioactive Metals
- 080048 Influence of Ground Disturbance and Exposure of Minerals on Their Susceptibility to Transport Through the Soil

080049 Land Reclamation Program

080050 Indian Training Program in Energy Extraction

080051 Determine the Load and Dynamics of Particulate Pollutants Resulting from Mining Operations and Powerplant Construction

080052 Determine Effects of Mining and Related Activities on Water Quality Aquatic Ecosystems

080053 Modeling Pre- and Post-Mining Biological Fate and Effects Data from Northern Great Plains, Southwest and Midwest Coal Field

080054 Radiological Assessment of Contaminated Excess Property

080055 Office of Environmental Policy, Argonne National Laboratory

080056 Assessment and Application of Endochronic Plasticity for the Dynamic Analysis of Energy Materials Shipping Containers

080057 IAEA Course on Nuclear Power

080060 Molecular Perturbations in Man Caused by Energy-Related Pollutants

080064 Analytical Instrument Development for Organic Environmental Contaminants

080065 Black Lung

080066 Fluidized Bed Research Project

080067 Radioactive and Trace Element

080068 Biological Consequences of Chemical Speciation of Heavy Metals in Natural Waters

080070 Surplus Facility Surveillance

080071 Salvage of Alpha Contaminated Metals

080072 Environmental Control Technology for Generation of Power from Coal

080073 Identification of Refractory Organic Compounds in Treated Refinery Wastewater

080074 Environmental Control Technology Survey of Selected U.S. Strip Mining Sites

080075 Chemical Characterization of Aerosols

080076 Oxygen Isotope Radiostudies of Sulfur Dioxide

080077 Assessment of Once-through Cooling Water Control Technology

080078 Identification, Transport and Conversion of Energy-Related Pollutants in the Environment-Oceans-Fate of Nuclear Pollutants-Disposal and Dumping

080079 Research Vessel Support

080080 Environmental Control Technology Survey of Selected U.S. Strip Mining Sites

081001 Plant Physiology

081002 Genetics and Regulation of the Plant Cell Division Cycle

081003 Early and Late Effects of Radiation of Different Quality and at Different Dose Rates

081004 Effects of Energy Derived Pollutants and Deuterium on Immune Systems

081005 Plant Biochemistry

081006 The Fine Structure of Cells

081007 Protein Chemistry

081008 Photosynthesis

081009 Structure, Function and Biological Activity of Naturally Occurring Proteinase and Peptidase Inhibitors

081010 Nucleic Acid Structure

081011 Energy Transduction in Chloroplasts

081012 Study of Biological Structures by X-ray and Neutron Diffraction

081013 Neutron Diffraction Studies of Protein

081014 Function of DNA Polymerases and the Effects of Environmental Contaminants on DNA Replication

081015 Effect of Chemicals and Radiation on Control of Hemopoiesis

081016 Effects of Important Energy-Related Pollutants on Storage and Transfer of the Genetic Message

081017 Plant Cell and Tissue Culture Genetics

081018 Cellular Radiobiology
081019 Microbial Genetics
081022 Evaluation of Hazards of By-Products from Nuclear and Non-Nuclear Energy Generation
081024 Terrestrial Ecology
081026 Radiological and Chemical Physics
081027 Radiation Instrument Development
081029 Interrelationship Between Genetic and Environmental Factors in Clinical and Experimental Hypertension
081032 Nucleic Acid Replication
081033 Low Angle Neutron Diffraction
081034 Oxidative and Free Radical Mechanisms Underlying the Actions of Pollutants
081035 Studies of Biological Structures by Scanning Transmission Electron Microscopy
081036 Atmospheric Diagnostics
081037 Coastal Meteorology
081038 High School Teachers Institute
081039 Electron Capture Detector Advancements and Separation and Concentration Techniques
081040 Assessment of Biomedical and Environmental Cost of Energy Systems
081041 Coastal Transport and Diffusion
081042 Oceanographic and Environmental Data Acquisition and Monitoring System Development
081043 National Environmental Research Park
081045 Radiation and Chemical Damage to DNA and its Repair
081046 Recombination and Repair of DNA
081047 Food Chain Dynamics
081048 Regional Studies
081049 Effects of Toxic Agents on Cells in Culture
081050 Coastal Productivity
081051 Health Physics Summer Training Program
081053 Fish Eggs and Larvae
081054 Control of Gene Expression in Mammalian Cells and Viruses
081055 Plant Cell Genetics
081056 Properties of Mammalian Cells Transformed by Tumor Viruses
081058 Ship Charter
081059 Penetration Through the Gut and Bio-Effects of Particulate Pollutants from Non-Nuclear Energy Production
081061 Ambient Aerosol Determination
081063 Photoelectrodialysis, Research and Development
081064 Ecological Waste Water Recycling
081065 Effects of Acid Rain on Terrestrial Ecosystems
081066 Mechanisms of Aberration Production in Eukaryote Chromosomes
081067 Experimental Radiation-Induced and Chemical-Induced Carcinogenesis
081068 Real Time Measurement System
081071 Radiopharmaceuticals and Use of Radionuclides in Biological Research
081074 Environmental Policy, Brookhaven National Laboratory
081075 Chemical and Environmental Mutagenesis
081076 Ambient Aerosol Mechanisms
081077 Regional Disaggregation of Energy Futures for WRC Assessments

081080 Assessment of Environmental Factors Involved in (1) the Flash Hydropyrolysis of Coal (PHP) and (2) CO2 Control Technology

081081 Marshall Islands Radiological Safety Program

081082 Development of Standards and Criteria, Reactor Safety Standards Project

081083 MAP3S Data Management

081084 MAP3S Transport and Transformation

081085 MAP3S Modeling and Analysis

081086 Aircraft Operations

081087 Northeast Oceanography Coordination

081088 Mass Spectrometric Determination of Environmental Pollutants

081090 Detrimental Biological Effects of Magnetic Fields

081091 Effects of Radiation and Fossil Energy Related Pollutant on Tumor Virus Activation

081092 NMR Studies of Protein Conformation; Microtubule Assembly and Proteasas

081093 Effects of Chemical Agents on DNA; Properties of Repair Enzymes

081094 Optical Probes of Macromolecular Conformations and Interactions

081095 Occupational Health and Medical Research Inhalation Toxicology and the Physiology, Biochemistry and Morphology of Human Pulmonary Disease

081100 Approach to the Molecular Basis of Carcinogenesis

081101 Radionuclide Air Monitoring Resuspension Determination

081102 Whole-Body Counting and Bioassay Program

082001 Cellular and Subcellular Biophysics

082002 Molecular and Cellular Biology

082003 Biophysical Chemistry

082004 Organic, Photo-, and Geochemistry

082005 Plant Biochemistry

082006 Genetic Study on Yeast

082007 Scanning Electron Microscopy of Particulates on Lung and Leaf Surfaces

082009 Resonance Studies in Photosynthesis

082010 Animal Colony

082013 Mechanism of Cancer Induction

082014 Macromolecules and Pollutant Damage

082015 Ecosystem Stability

082016 Metabolism of Transuranic Elements

082022 Pollutants and Hematopoiesis

082024 Long Term Effects of High LET Radiation

082025 Radiological Physics

082027 Radiation Detector, Materials and Detectors

082030 Electron/Diffraction Structure Analysis

082032 Studies of Membranes

082033 Instrumentation Technology for Energy-Related Contaminants

082034 Physical Methods of Measuring Environmental Contaminants

082035 Tritium Damage in Mammalian Cells

082036 Probabilistic and Statistical Studies of Disease Effects of Pollutants

082037 Regional Studies

082038 Survey of Instrumentation for Environmental Monitoring

082039 Aerosol Chemistry

082040 Environmental Impacts of Geothermal and Solar Energy
 082041 Endocrine Parameters Pollutant
 082042 Effects of Pollutants on Somatic Mammalian Cells
 082043 National Geothermal Information Resource
 082046 Office of Environmental Policy, Lawrence Berkeley Laboratory
 082048 Trace Metals in a Marine Estuary
 082051 Inspection Guide for Seismic Safety
 082052 Steroid Metabolism Energy Pollutants
 082053 Pollutants in Tissue Metabolism
 082054 Indoor Air Pollution Epidemiology Study
 082055 Biomedical Effects of Magnetic Fields
 082056 Epidemiology of Magnetic Effects on Humans
 082057 Health Effects Petroleum Industry
 082060 Laser Optoacoustic Spectrometer
 083001 Assay of Mammalian Sperm Motility
 083002 Radiosensitivity of Oocytes and Other Mammalian Cells During Development
 083003 Spermatogenic Variability
 083004 Flow Systems Development
 083005 Flow Systems Applications
 083006 Cytochemistry
 083007 Mutations in Cultured Somatic Cells
 083008 Inaccuracy in Gene Expression: Induction by Chemical Agents and Mutagenic Effects
 083009 Cellular Functions of Vitamin B-12 and Folic Acid
 083010 Membranes of Mammalian Cell Mutants
 083011 Biochemistry of DNA, Chromatin and Chromosomes
 083012 Cytomorphometry: Nuclear
 083013 Cytogenetics and Chromosome Aberrations
 083014 Development of Instrumentation for Characterizing Pollutants and Their Behavior in the Environment
 083015 Nuclear Assessment and Model Development
 083017 Effects of Air Pollution on Western Plant Ecosystems: Case Studies
 083018 Transuranic Radionuclides in Oceanic Water Columns
 083019 Trace Contaminants from Fossil Fuel Power Stations
 083021 Regional Atmospheric Systems: Formulation of Numerical Analytical Models
 083022 Atmospheric Release Advisory Capability
 083023 Environmental Behavior of Effluents in the Coastal Environment
 083024 Regional Scale Assessments of Energy Impacts
 083026 Biogeochemical Cycling of the Transuranics and Other Radionuclides in the Marshall Islands
 083027 Laboratory Studies of the Fate and Interaction in Marine Systems of Radionuclides Released from California Coastal
 083029 Intercalibration of Detectors for Measuring Plutonium and Other Transuranium Elements in Man
 083031 Personal Plutonium Resuspension Studies
 083032 Marshall Islands Radioecology Studies and Dose Evaluation: I. Enewetak
 083034 IVEP Geothermal: Water Quality
 083035 Flow Cytogenetics, Biology
 083037 Cytomorphometry: Nonnuclear

083038 Ecosystem Quality
 083040 Multistate Atmospheric Power Production Pollution Study
 083041 IVEP Geothermal, Air Quality
 083042 IVEP Geothermal: Socioeconomic Assessment
 083043 IVEP Geothermal: Integrated Assessment
 083045 Ground-Water Quality and Subsidence Effects Associated with In Situ Coal Gasification: Environmental Control Implications
 083046 IVEP-Subsidence and Seismicity
 083047 Office of Environmental Policy, Lawrence Livermore Laboratory
 083048 In Situ Coal Gasification Assessment
 083049 Integrated Assessment to Support High-Priority Geothermal Development Areas
 083051 High Efficiency Filter Fire Research
 083052 Criteria for Seismic Design of ERDA Facilities
 083054 Atmospheric Release Advisory Capability
 083055 Flow Cytogenetics--Biophysics
 083056 IVEP-Health Effects
 083057 Project Indalo: A Study of Plutonium in the Environment
 083058 Management and Planning Support for Geothermal Solar Environmental Projects
 083059 IVEP (Imperial Valley Environmental Project) Preplanning Appraisals in KGRAs (Known Geothermal Resource Areas)
 083061 Assessment of Geothermal Loan Guaranty Applications for Environmental and Safety Concerns
 083062 Large-Scale LNG Spill Tests
 083063 IVEP Control Technology Assessment
 083064 Impacts of Large-Scale Use of Methanol and Methanol-Gasoline Blends as Auto Fuels
 083065 Transuranic Aerosol Monitor
 083066 Atmospheric Characterization
 083067 Development of Advanced Air Quality Monitoring Instrumentation
 083068 ERDA-NGS Vertical Leveling Survey Along the Texas Gulf Coast
 083069 Marshall Islands Dose Assessment
 083070 Nationwide Survey
 083071 Hittman Task 1: Expansion of the Matrix of Environmental Residuals for Energy Systems Data Bases
 083072 Bikini Diet Survey and Encu Garden Studies
 084001 Life-Shortening Effects as a Function of Dose Rate, Total Dose, and Age at Exposure
 084002 Tumorigenic Risk from Particles in Lung and Other Tissues, An Animal Model
 084003 Absorption, Retention, and Excretion of Energy-Related Hazardous Materials
 084005 Biosynthetic Activity in Synchronized Cells
 084006 Assessment of Biological Hazards Associated with Exposure to Ionizing Radiations
 084007 RNA and Protein Metabolism in Cultured Mammalian Cells: Analysis of the Effects of Ionizing Radiation
 084008 Effects of Hazardous By-Products of Coal Technology on the Regulation of Cell Proliferation
 084009 Properties of the Cell Surface: Interactions of Metallic Pollutants from Coal Combustion with the Extracellular Matrix
 084010 Effects of Radiation on Model DNA and Genetic Information Transfer and Maintenance
 084011 Pollutants and DNA Repair Enzymes
 084012 Effects of Chemical Carcinogens and Mutagens Derived from Utilization of Carboniferous Energy Supplies on Chromatin Structure and Function
 084013 Applications of High-Speed Cell Analysis and Sorting to Biological Problems
 084014 Instrument Development for Flow-Systems Cell Analysis

084015 Applications of Stable Isotopes

084016 Chromosome Structure and Function: Effects of Environmental Pollutants on Karyotype Stability

084017 Effects of Hazardous By-Products of Non-Nuclear Energy Technology on Regulation of Structural and Functional Organization of Mammalian Chromatin

084018 Radiation and Genetic Information Transfer

084021 Effects of Increased Coal Utilization on Nucleic Acids

084022 Application of Cell Flow Instrumentation to Radiobiological Problems

084023 Determination of Plutonium in Man

084024 Ecological Investigation of Radioactive Materials in Waste Discharge Areas at Los Alamos

084025 Fine Particle Studies Related to Health and Air-Cleaning Requirements for Energy Systems

084028 Analysis of the Human Health and Ecological Consequences of Plutonium and Other Transuranics

084029 Ecological Investigation of Rehabilitation of Uranium Mine Tailings of the Southwestern United States

084030 Environmental Research Park Support

084031 Terrain Influences on Low-Level Meteorological Transport

084034 Ecological Investigation of Alaskan North Slope Oil Field Development

084035 Radiation Ecology Studies of Northern Alaskan Ecosystems

084036 Health of LASL Plutonium Workers

084037 Rocky Mountain Regional Studies

084038 Regional Studies Program

084039 Regional Studies Program: Data Base

084040 Regional Studies Program: Environmental Assessment

084041 Ecological Investigation of Waste Discharge Areas at Los Alamos

084042 Interactions of Coal-Related Pollutants and Nucleic Acids

084043 Isolation of Life-Cycle Traverse Mutants of the Mammalian Cell Line CHO

084044 Stable-Isotope-Labeled Compounds for Environmental and Ecological Tracing

084045 Epidemiologic Study of Plutonium Workers

084046 Lower Stratospheric (Airstream) Data and Field Support

084047 Ecological Investigation of Dry Geothermal Energy Demonstration

084048 Heavy Methane Atmospheric Tracer Experiments

084050 Environmental Policy, Los Alamos Scientific Laboratory

084061 Respirator Research and Development

084062 Aerosol Sampling and Characterization for Hazard Evaluation

084063 Ventilation Systems Analysis under Tornado Conditions

084066 Contamination Limits for Property

084067 Technical Safety Assessments

084068 Plutonium-Induced Mutation Frequency in Mammalian Cells

084070 Development of Computer Analysis Methods

084071 Trace Elements Characterization and Removal/Recovery from Coal and Coal Wastes

084074 Toxicity of Oil Shale Products, Including Metabolism and Carcinogenicity

084075 Critical Review and Assessment of Hydrogen Energy Economy Transportation Safety Problems

084076 Environmental Control Technology Implications of Magnetic Fields

084077 Transport of Toxic Solar Energy Working Fluids Released to the Atmosphere: Information Requirements

084078 Potential Effects of Solar System Working Fluids as Ecosystem Contaminants

085002 Late Effects of Single, Fractionated and Protracted Exposures to Fission Neutrons and Gamma Rays

085003 RNA Tumor Virus, Environmental Carcinogen Oncogenesis

085004 Mechanisms of Radiation Carcinogenesis and Life Shortening
 085005 Pathology; Physiology, General
 085006 Medium (Low) Level, Long-Term Effects of Radiation
 085007 Physiology of Blood Platelets
 085008 Developmental Biochemistry
 085010 Growth and Regeneration
 085011 Biostatistics and Biomathematics
 085012 Radiation Biophysics
 085014 Enzymology (Development of New or Improved Methods for the Isolation, Purification, Molecular Characterization and Mechanism of Action of Lymphokines)
 085015 Nucleic Acid Enzymology of Normal and Viral-Infected Systems
 085016 Energy Transfer in Biosystems
 085017 Theoretical and Applied Cryobiology
 085019 Enzyme Regulation
 085020 CRCHIS, Extension for Environmental Information and Data
 085021 Mammalian Biochemical Genetics
 085022 Mammalian Genetics
 085024 Drosophila Cytology and Genetics
 085025 Yeast Mutagenesis
 085026 Microbial Radiation Biology and Cell Division
 085027 Mammalian Cytogenetics
 085028 Automated Analyses for Biochemical Indicators of Genetic Differences
 085029 Mammalian Gametogenesis
 085030 Cytogenetic Studies of Special Chromosome Aberrations in Mice: Genetic Causes of Fertility Impairment
 085032 Radiation Immunology (Radiation, Immune Competence and Carcinogenesis)
 085033 Experimental Hematology
 085034 Biochemistry of Cell Differentiation
 085035 Control, Regulation and Aberrancy in Protein Biosynthesis
 085036 (Nucleotide Metabolism) Ribonucleotide Reductase in *Euglena gracilis*
 085037 Mammalian Somatic Cell Genetics and Biochemistry
 085038 Biomedical and Environmental Applications of Bio- and Chemiluminescence
 085039 Ionizing Radiation Biophysics
 085040 Photophysics of Proteins and Molecular Immunology
 085041 Environmental Insults to DNA
 085042 Chromosome Chemistry
 085043 Studies on Mutation Induction in *Haemophilus Influenzae*
 085044 Medical and Molecular Genetics
 085045 Molecular Genetics
 085046 Effects of Radiation and Energy Related Pollutants on Aquatic Ecosystems
 085047 Radionuclide Cycling in Terrestrial Environments
 085048 Radionuclide Cycling in Aquatic Ecosystems
 085049 Development of Ecological Modeling
 085050 Walker Branch Watershed, Cycling and Transport of Contaminants
 085051 Thermal Effects Studies
 085052 Eastern Deciduous Forest Biome Program

085053 CUREX: Guides for Controlling Population Exposure from Releases of Radioactivity to the Environment
085054 Toxicant Formation in Condenser Cooling Systems
085055 Population Effects of Reduced Recruitment
085056 Environmental Effects of Cooling Tower Drift
085057 Energy R and D Inventory
085058 Plutonium, Americium and Curium in Terrestrial and Aquatic Environments of Eastern United States
085059 Health Physics Research Reactor
085060 Medical Physics and Internal Dosimetry
085061 General Physics
085062 Chemical Physics Studies
085063 Liquid and Surface Physics
085064 Physics of Solids and Macromolecules
085065 Atomic and Molecular Physics
085066 Basic Measurement Science
085068 Solid State Dosimetry
085069 Dosimetry for Human Exposures
085071 Mechanical Impacts of Entrainment and Impingement
085072 Environmental Research Park Support
085076 Application of Models of Ecological, Agricultural and Environmental Systems to Assessment of Energy Technologies
085080 Sand Tracing Techniques
085082 Environmental Response Center
085084 Ecological Sciences Information Center
085086 X-ray Diffraction
085087 Protein Chemistry
085088 Mammalian Cytochemistry and Mutagenesis
085089 Molecular Aspects of Radiation Genetics
085090 Analytic Dosimetry
085091 Public Health and Demographic Statistics for the Population Near a Nuclear Facility
085096 Economic and Environmental Recovery from Severe Reactor Accidents
085097 Bioorganic Chemistry and Enzyme Catalysis
085098 Chemical Effects on the Immune System
085099 Delayed Somatic Effects of Environmental Agents
085100 Effects of Carcinogens and Mutagens on Genes Controlling Growth and Replication of Cells
085101 Biomedical Engineering of Cancer Immunology
085102 Bioengineering Research
085103 Inhibition of DNA Repair by Chemicals Released from Non-Nuclear Energy Generators
085104 Development of Tests for Genetic Mutation in Humans
085105 Comparative Mutagenesis
085106 Mammalian Chemical Mutagenesis Testing Program
085107 Ion Chemistry in the Atmosphere
085108 Physicochemical Properties of Chemical Pollutants, Biologically Active Molecules and Related Structures
085109 Pollutant Ion Formation and Atmospheric Clustering Phenomena
085110 Studies of Surface Interactions and Ion Particulate Accretion
085111 Development of Portable Analyzer

085112 Advanced Multidetector Spectrographic Systems for Trace Element and Molecular Analysis
 085113 Resonance Ionization Spectroscopy
 085114 Continuous Monitors for Effluents
 085115 Energy Pathways in Irradiated Gases
 085116 Environmental Fate of Emissions from Coal Combustion Plants
 085117 Biogeochemical Cycling in Aquatic Ecosystems of Trace Elements in Coal
 085118 Fixed and Mobile Low-Elevation Dispersed Sources of Airborne Pollutants
 085119 Ecological Effects of Coal Combustion, Response of Vegetation to SO₂, Ozone and Acid Precipitation
 085120 Numeric Information Support for Modeling Analysis, and Assessment of Environmental Impacts of Energy Technologies
 085121 CUMEX Index and Transport Models for Environmental Pollutants
 085123 Global Carbon Cycles and Climatic Risks
 085124 Physical and Chemical Characterization of Plutonium in Existing Contaminated Soils and Sediments
 085125 National-Regional Socioeconomic and Energy Patterns
 085126 Regional Environmental Assessment
 085127 Social Impacts of Alternative Energy Generation Technologies
 085128 Coal Mining Impacts, Development of Environmental Assessment in Appalachia
 085129 Development of Criteria for Decontamination
 085130 Energy Facilities Siting: National-Regional Assessment
 085131 Environmental Mutagen Info Center - Task 5
 085133 Environmental Behavior of U and Th as Related to the Thorium Fuel Cycle
 085135 Gene Expression in Mammalian Cells and Carcinogenesis
 085136 Ultrastructural Cell Biology of Respiratory Tract Preneoplasia
 085137 Enzymology of Carcinogenesis
 085138 The Molecular Basis for Chronic Heart Failure
 085139 Modeling the Effects of Man-Induced Stresses on Marine Fish Populations
 085140 Microdosimetry, Biological Modelling and Theoretical Biophysics
 085141 Dosimetry for New Energy System Pollutants
 085143 Facility for the Chemical Support of Biological and Environmental Studies Related to Coal Conversion
 085144 State of the Knowledge Reports
 085145 Inventory of Federal Energy-Related Environment and Safety Research
 085146 RUSTIC: Regional and Urban Studies Information Center Unified-Socioeconomic Analysis and Retrieval System
 085147 Assessment of Environmental and Biological Effects of Fusion Power Technology
 085154 National Inventory of Biological Monitoring Programs
 085155 Environmental Control Technology Data Base
 085157 Information Center for Energy Safety
 085159 Office of Environmental Policy, Oak Ridge National Laboratory
 085160 Ultrasensitive Pollutant Analysis
 085161 Environmental Transport and Effects of Coal Conversion
 085162 National Chlorination Symposium
 085163 Chemical Characterization of Complex Organic Materials Related to Coal Conversion Technology (CCT)
 085165 Biochemical Treatment of Waste Steams from Coal
 085167 Environmental Evaluation of the Guyan Oil Company Enhanced Oil Recovery Pilot Project
 085168 Evaluation of Environmental Monitors

085169 Environmental Applications of Portable Analyzers
 085170 Radiological Survey of Excess MED/AEC Property--B
 085172 Uranium Mill Tailings Phase II--B
 085174 Emergency Technology
 085175 Radiation Exposure Information and Reporting System (REIRS)
 085176 Transportation Statistics Data Bank
 085177 Preparation of Research Materials--B
 085178 Regional Disaggregation of Energy Futures for WRC Assessments
 085179 Environmental Evaluation Guyan Oil Company for Pilot Project
 085180 Surplus Facility Surveillance
 085181 Surplus Facilities Surveillance (PPDL)
 085182 Planning for Disposition of Excess Facilities, Reactors
 085183 Testing of Large Obsolete Casks
 085185 Assessment of Environmental Control Technology for Coal Conversion Processes
 085186 Nucleic Acid Chemistry of Abnormal Cells
 085187 Carcinogenesis, Mutagenesis and Metabolic Activation of Polycyclic Hydrocarbons in Human Cells
 085188 Studies on Tumor Cell Immunology
 085189 Reproductive Toxicology
 085190 Review Criteria for Nuclear Criticality Safety Evaluations for Transportation of Fissile Materials in 10CFR71
 085191 Study of Effluent Control Technologies for Hydrocarbon and Carbon Monoxide Emissions from Coal Conversion Plants
 085192 Radionuclide Sources in the Coastal Zone
 085193 Inventory of Transuranics in Clinch River
 085194 Fossil Fuel Pulmonary Toxicity
 085195 Agricultural Pollutants
 085196 Genetic Effects of Plutonium in Mice
 085197 Multienzyme Systems Involved in the Metabolism of Aromatic Amino Acids and Hazardous Aromatic Hydrocarbons
 085198 Photosynthesis
 085199 Regulation of Membrane Transport Systems
 085200 Chemical Toxicology
 086001 Mechanisms of Radiation Effects
 086002 Evaluation of Radionuclides in Man
 086003 Inhalation Hazards to Uranium Miners
 086004 Removal of Deposited Radionuclides
 086006 Fallout Rates and Mechanisms
 086007 Radioisotopes as Particles and Volatiles
 086009 Atmospheric Boundary Layer Studies
 086010 Urban Pollutant Characterization, Transport, and Deposition
 086011 Particle Resuspension and Translocation
 086012 Suspended Particle Interaction and Uptake in Terrestrial Plants
 086014 Aerosol and Trace Gas Transformations
 086015 Hemispheric Pollution Behavior Studies of Chemical and Radiation Substances
 086016 Research Aircraft Operations
 086018 ALE Administration

086019 Animal Ecology
086020 Plant Ecology
086021 Analysis of Natural Systems
086022 Influences of Soils and Sediments on the Chemical Behavior, Transport, and Bioavailability of Pollutants Resulting from Energy Production.
086023 Sublethal Effects of Tritium on Aquatic Systems
086024 Effects of Behavior of Fossil Fuel Effluents in Freshwater Ecosystems
086028 Combined Effects of Waste Heat and Environmental Factors Acting in Concert
086029 Effects of Thermal Discharges on Aquatic Biota
086030 Chemistry of Ocean Solutions
086031 Geochemical Ocean Sections Study
086032 Effects of Thermal Discharges to Coastal Waters
086034 Marine Biogeochemistry of Am and Pu
086035 Potential for Plutonium Complexation in Soil and Uptake by Plants
086036 Radioecology of I-129 and Tc-99
086037 Radiation Instrumentation -- Radiological Chemistry
086038 Radiation Dosimetry
086039 Radiation Physics
086040 Radiation Biophysics
086041 Ecological Distribution and Fate of Pu and Am in a Processing Waste Pond on the Hanford Reservation
086042 Quantitative Ecology of Impact Evaluation
086043 Effects of Hydroelectric Generation on Riverine Ecology
086044 Fate and Effects of Petroleum Hydrocarbons in Marine Coastal Ecosystems
086045 Assessment of Social Values in Thermal Plant Siting
086049 Toxicology of Tritium and Krypton
086050 Toxicity of Thorium Cycle Nuclides
086051 Ecology Studies
086053 Real-Time Measurement of Plutonium in Air at Below MPC Levels
086054 In Situ Pollutant Measurements
086055 MAP3S Modeling Studies
086056 Transuranics Uptake by Plants as Affected by Weathering and Ageing
086057 Bioavailability of Energy Effluents on Coastal Ecosystems
086058 Environmental Pollution Analysis, Instruments and Methods Developing
086059 Pacific Northwest Regional Assessment Program
086060 Inhaled Transuranics in Rodents
086061 Inhaled Plutonium Nitrate in Dogs
086062 Aerosol and Analytical Technology
086064 Modifying Radionuclide Effects
086065 Gut-Related Radionuclide Studies
086066 Biohazards of Reactor Accidents
086067 Dosimetry of Internal Emitters
086069 Analytical Techniques for Tc-99 Measurements in Environmental Samples
086073 Inhaled Plutonium Oxide in Dogs
086074 Fetal and Juvenile Radiotoxicity
086075 Trace Constituent Analysis by Laser Excitation

086076 Coal Conversion Pollutant Chemistry
 086077 Precipitation Scavenging in MAP3S
 086079 Inhalation Hazard to Coal Miners
 086081 Malnutrition and Metal Toxicity
 086082 Toxicology of Plutonium-Sodium
 086083 Toxicology of Inhaled Acid Aerosols
 086084 Late Effects of Oil Shale Pollution
 086085 Mutagenicity of Oil Shale
 086086 Dose from Particulates in the Lung
 086087 Mobilization of Deposited Metals
 086088 Analog Elements to Predict Transuranic Behavior in the Environment
 086089 Radioecology of Uranium
 086091 Quantitative Aspects of Plutonium Field Studies
 086092 Metal-Membrane Interactions
 086093 Reaction Kinetics of Combustion Processes
 086094 Oil Shale and Tar Sand Effluent Characterization
 086095 Statistical and Epidemiological Considerations and Methodologies for Studies Concerning the Effect of Low-Level Exposures to Environmental Contaminants
 086096 Restoration of Surface-Mined Lands
 086097 Transuranics in the Environment
 086100 Oil Shale and Tar Sand Research Materials, Preparation and Documentation
 086102 Environmental Policy, Pacific Northwest Laboratory
 086104 ALAP, Technical Guidelines for Maintaining Occupational Exposures As Low As Practicable
 086106 Handbooks of Recommended Practices for Environmental and Effluent Monitoring and Reporting
 086108 Assessment of Criticality Safety
 086109 Oil Shale Aerosol Technology
 086110 Analysis of Nuclear Fuel Cycles
 086111 Disposition of Retired Contaminated Facilities at Hanford
 086112 Energy Material Transport, 1977-2000, System Characteristics and Potential Problems
 086114 Risk Assessment and Testing
 086116 Assessment of Environmental Control Technology for Waste Waters in In-Situ Oil Shale Retorting
 086118 Assessment of Environmental Control Technologies for Koppers-Totzek and Winkler Coal Gasification System
 086119 Management Program Plan for Environmental Concerns of Compressed Air Energy Storage
 086120 Identification of EHM Standards for Geothermal Programs
 086121 Effects of Low Levels of Tritium on Marine Organisms
 086122 Program Plan Geothermal Liquid Waste Disposal
 086123 Social Impact Method Evaluation: Pacific Northwest Plants
 086124 Coordination of Pacific Marine Sciences Programs
 086125 Integrated LNG Safety and Environmental Control Program
 086126 Radioecology of Waste Management Areas
 086127 Characterization of 300 Area Burial Ground
 086128 In-Situ Coal Gasification Pollutant and Effluent Characterization
 086129 Environmental Pollutant Characterization by Direct-Inlet Mass Spectrometry
 086130 Toxicology of Sodium
 086131 Biological Effects of Magnetic Fields

086132 Development of a Chemical Reaction, Stability and Transport Model of Oil-Shale Process Wastes in Soil

087001 Nature of Aerosols

087002 Radiation Dose Patterns From Inhaled Alpha-Emitting Radionuclides

087003 Dose-Response Relationships for Inhaled Alpha-Emitting Radionuclides

087004 Pathogenesis of Radiation-Induced Disease Caused by Inhaled Radionuclides

087005 Therapy for Inhaled Radionuclides

087006 Exposure to Internal and External Radiation

087007 Chronic Inhalation Exposures to Radionuclides

087010 Radiation Dose Patterns from Inhaled Beta-Gamma Radionuclides

087011 Dose-Response Relationships for Inhaled Beta-Emitting Radionuclides

087012 Applied Health Protection Considerations for Inhaled Radioactive Aerosols

087013 Plutonium Aerosols in Industrial Operations

087014 Project Da Vinci

087019 Somatic Cell Chromosome Changes in Humans Exposed to Radon-222 and Plutonium-239

087021 Analysis of Ocean Bed Disposal

087023 Package Failure from Malevolent Attack

087024 Study of Physical Parameters of Transportation Accidents

087025 Full Scale Vehicle Testing Program

087026 Maintenance of a Transportation Environmental Data Bank

087027 Transport of and Containers for Radioactive Materials - Films

087032 Determination of the Environmental Impacts of In Situ Coal Gasification on Groundwater Quality

087034 Safety Studies of Explosions

087035 Environmental and Fire Hazards of Materials Used for Solar Heating and Cooling

087036 Assessment of the Radiological Impact of Western Coal Utilization

087037 Seabed Disposal Program

087038 Office of Environmental Policy, Sandia Laboratories

087039 The Effect of Low Frequency Electromagnetic Fields on Biological Systems

087040 Low BTU Gasifier-Biological Characterization of Field Collected Effluents

087041 Lung Cell Injury from NOx

087042 FEC--Biological Characterization of Field Collected Effluents

087043 FEC Early Indicators of Damage for Inhaled Effluents

087044 FEC-Kinetics of Lung Cells in Response to Inhaled Pollutants

087045 FEC--Influence of Inhaled Pollutants on Pulmonary Defense Mechanisms

087046 FEC--Chronic Respiratory Diseases from Inhaled Effluents

087047 Toxicology of Solar Heating and Cooling Materials

087048 Grumman Engineering Analysis Energy Conservation

087049 Evaluation of Long Term Effects/Thermal

087050 Carcinogenic Effects of Energy Related By-Products

087051 Quality and Reliability Assurance Program Plan

087501 Regulation of Flowering and Other Plant Growth Processes

087502 Environmental Control of Plant Growth and Development through Hormones

087503 Mechanisms of Action of Plant Hormones

087504 Enzymatic Mechanisms of Polysaccharide and Glycoprotein Synthesis in Plants

087505 Regulation of Protein Formation in Plants, Significance in Growth Regulation

087506 Plant Cell Wall Protein

- 087507 Developmental Biology of Nitrogen-Fixing Algae
- 087508 Physics and Physiology of Environmental Relationships of Plants
- 087509 Physical Biochemistry of Biological Membranes
- 087510 Molecular and Cellular Radiobiology
- 087511 Radiation Cytogenetics of the Yellow-fever Mosquito, *Aedes aegypti*
- 087512 Chromosome Studies in Myeloproliferative Disorders
- 087517 Covalent Structural Analysis of Proteins
- 087521 Mechanisms in Transplantation and Tumor Immunology
- 087524 Lymphocyte Transformation as a Model System
- 087525 Control of RNA and Protein Synthesis in Normal and Virus Infected Cells
- 087526 Mitochondrial Nucleic Acids and Protein Synthesis
- 087527 The Initiation of Protein Synthesis and the Specific Role of Ribosomes in the Overall Process of Protein Synthesis
- 087528 Lipoprotein-Cell Interactions
- 087530 Radiation Toxicology
- 087531 Mutagenesis and DNA Repair
- 087532 Genetic Regulation and Nucleic Acid Chemistry
- 087536 Membrane Biophysics and Toxicology
- 087537 Chemical Toxicology
- 087539 Health Studies: Exposure to External and Internal Radiation; Low-Level Plutonium, Transplutonium and Fission Products and Other Elements Studies
- 087540 Health Studies: Exposure to External and Internal Radiation; Low-Level Plutonium, Transplutonium and Fission Products and Other Elements Studies
- 087541 Radiation Chemistry Group, Assessment Evaluation and Control of Radiation Exposure to Man and His Environment-Exposure to Internal and External
- 087542 Radiation-Clinic-Pathology, Assessment Evaluation and Control of Radiation Exposure to Man and His Environment-Exposure to External and Internal
- 087543 Health Studies: Exposure to External and Internal Radiation; Low-Level Plutonium, Transplutonium and Fission Products and Other Elements Studies
- 087544 Regulation of Complex Metabolic Pathways in Normal and Neoplastic Tissues
- 087546 Study of Erythropoietin: Structure, Mode of Action, Mechanism of Differentiation and Possible Clinical Applications
- 087547 Acquisition of Environmental Information Through Light and Heat Perception
- 087548 Characterization of Gaseous Molecular Pollutants Emitted by Energy Generation Sources
- 087549 Environmental Effects of Solid Waste as a Supplemental Fuel
- 087552 Resistance of Plants to Environmental Stress
- 087553 Health Studies: Decorporation; Removal of Transuranic Elements from the Body
- 087554 Biochemistry of Sulfur Dioxide Injury in Plants
- 087555 Area Program in Population Genetics
- 087556 The Cytogenetics of Monosomes in Zea mays
- 087557 Effect of Radiation on Normal Hematopoiesis and on Viral Induced Cancers of the Hematopoietic System
- 087558 A Study of the Physiological Function and Histological Changes of Thyroids Irradiated with Radioactive Iodine
- 087559 Investigations of the Biological Effects of Radiation: A Multi-Discipline Approach
- 087561 A Study of the Translocation of Plutonium and Americium from Puncture Wounds
- 087563 Proteins in Growth Regulation During Early Development of the Chick Embryo
- 087564 Toxicology and Metabolism of Nickel Compounds
- 087565 Pathophysiologic Effects of Stable Iodine Used As A Thyroidal Blocking Agent to Reduce Thyroid Radiation Exposure

- 087566 Characterization of Biological Membranes by Physical Chemical Methods
- 087568 Blood Platelets and Coagulation
- 087570 Molecular Events Basil to Cellular Radiation Response
- 087574 Regulation of Enzymes in Animals: Effects of Developmental Process, Cancer and Radiation
- 087575 Radiation Carcinogenesis
- 087576 The Tumorigenic Action of Beta, Proton, Alpha and Electron Radiation on the Rat Skin
- 087577 Radioactivity Studies
- 087578 Biochemical Studies of the Ocular Lens in Relation to Cataractogenesis
- 087582 Biological Effects of Ionizing Radiation at the Molecular, Cellular and Human Level
- 087583 Uranium Miner Lung Cancer Study
- 087585 Problems in Radiation Embryology
- 087586 Effects of X-Irradiation on Steroid Biotransformations by Testicular Tissue
- 087587 Mechanisms of Calcium Transport in Small Intestine
- 087590 Effect of Light on Respiration and Development of Photosynthetic Cells
- 087592 Use of Lymphoblastoid Cells for the Estimation of Environmental Insults to DNA
- 087593 Biogenesis
- 087594 A Study of Nucleic Acid Methylations in Differentiating Systems
- 087595 Use of Molecular Hybridization to Explore Genetic Relationships
- 087596 Studies of Photosynthetic Energy Conversion
- 087598 The Investigation of the Genetic Structure of Populations
- 087600 Enzymatic Studies of Radiation Damage
- 087602 Action of Radiations on Some Biological Model Systems
- 087603 Research on Human Genetics in Iceland
- 087604 Comparative Mutagenesis
- 087605 Development and Function of Membrane Systems in Plant Tissue
- 087609 Improved Mutagen-Testing Systems in Mice
- 087610 Inborn Anemias in Mice
- 087611 Mechanisms of Bioluminescence, Chemiluminescence and Their Regulation
- 087612 Basic Problems in Carcinogenesis
- 087613 Study of Radiation Effects on Nucleic Acids and Related Compounds
- 087614 Photochemistry and Enzymology of Photosynthesis
- 087617 Synthesis of DNA Containing Uracil (or 5-Hydroxymethyluracil) During Bacteriophage Infection of *Escherichia coli*
- 087620 Bovine Lymphocytic Leukemia
- 087621 Studies of Lymphocyte Growth and Differentiation
- 087622 Potential Radiosensitizing Antiviral and Anticancer Nucleosides
- 087623 Study of Mathematical Models of Mutation and Selection in Multi-Locus Systems
- 087625 Studies on Virus-Induced Cell Fusion
- 087626 Nucleic Acids and Protein Synthesizing Mechanisms in Mitochondria
- 087630 Energy Transfer Mechanisms in Photobiological Reactions
- 087631 Neutron-Induced Mutation Experiments
- 087632 Genetic Effects of Low X-Ray Doses in *Drosophila*
- 087633 Structure and Synthesis of Small Viruses and Their Component Parts
- 087634 Organization of the R Chromosome Region in Maize
- 087636 Effects of Radiation on DNA and Repair of the Damage

- 087637 Effects of Environmental Stress on the Community Structure and Productivity of Salt Marsh Epiphytic Communities
- 087638 Radioecology of Some Natural Systems
- 087640 Transport and Transfer Rates in Waters off the Continental Shelf
- 087641 Foodchains of Transuranium Elements in the Subarctic Environment
- 087643 Biogeochemistry of Trace Metals in Chesapeake Bay
- 087644 Phytoplankton Growth, Dissipation and Succession in Estuarine Environments
- 087645 Effects of Energy Related Activities on the Plankton of the Chesapeake Bay
- 087646 Thermal Regulation of Functional Groups in Running Water Ecosystems
- 087647 Dissolved Organic Matter and Lake Metabolism
- 087649 Nutrient Enrichment and Eutrophication of Lake Michigan
- 087652 Vertebrate Behavior and Ecology
- 087653 Accumulation and Transport of Minerals by Marine Protozoa
- 087656 Movement of Metal Cations Through the Soil to the Plant Root Membrane
- 087657 Fission- and Alpha-Track Study of Biogeochemistry of Plutonium and Uranium in Carbonates of Bikini and Eniwetok Atolls
- 087658 Biological Research on the Volcanic Island Surtsey and Its Environs
- 087659 Population Dynamics, Movement and Home Range of Black-Tailed Jackrabbits in Curlew Valley, Northern Utah
- 087660 Exchange of Lyotropic Series Cations by Micaceous Vermiculite and Its Weathering Products Determined by Electron Microscopy and Radiochemical Analysis
- 087661 Radioelement Studies in the Oceans
- 087663 Plutonium and Americium Concentrations Along Fresh-water Food Chains of the Great Lakes, USA
- 087664 Distribution of Some Chemical Elements Between Particulate and Dissolved Phases in Sea Water
- 087665 Microbiology of Coastal Waters
- 087666 Trace Elements in Natural Waters
- 087667 Effects of Atmospheric Variability on Energy Utilization and Conservation
- 087668 Atmospheric Pollution Scavenging
- 087669 Global Transport Processes and Interactions with Trace Constituents
- 087675 Physical Basis of Ionizing-Radiation Action
- 087676 Dosimetry of Ionizing Radiation, Radiation Physics, and Radiobiology
- 087677 High Purity Germanium PIN Gamma Detector
- 087679 Theory of Relative Biological Effectiveness
- 087680 Interaction of Radiation with Matter
- 087682 Development and Applications of Photosensitive Device Systems to Biological Observations
- 087683 Special Problems in Nuclear Instrumentation
- 087684 Biological and Clinical Dosimetry
- 087685 Solid State Neutron Dosimetry
- 087686 Energy Exchange within Ecosystems
- 087687 Energy Generation and the Sulfur Cycle: Organic Sulfur Compounds
- 087689 Spin-Labeled Membranes
- 087690 Investigation of Molecular Mechanisms in Photodynamic Action and Radiobiology with Nanosecond Flash Photolysis
- 087693 Energetic-Neutron Spectrometry
- 087694 Response of a Forest Ecotone to Ionizing Radiation
- 087695 Energy Budgets of Animals, Behavioral and Ecological Implications
- 087696 Biological/Environmental Relationships in Desert Ecosystems of the Nevada Test Site

- 087697 Avian Radioecology on a Nuclear Power Station Site
- 087698 Membrane-Membrane Interactions in a Lipid-Containing Bacteriophage System
- 087699 Basic Aspects of Radiation Action on Microorganisms
- 087700 Effects of Mesoscale Weather Disturbances on Contamination Concentrations
- 087701 ESR Study of Radiation Damage in Pyrimidines
- 087705 Iron Metabolism in the X-Irradiated Animal
- 087708 Cellular Proliferation and Regeneration Following Tissue Damage
- 087709 Protein Synthesis and Its Regulation: A Background Study Related to the Biological Effects of Radiation
- 087710 Studies of Membrane Structure by Freeze-Etching
- 087711 Mechanisms for Radiation Damage in DNA
- 087712 Design and Construction of a Detection System for the Determination of Lead in Blood using X-Ray Fluorescence Analysis
- 087713 Sorption of Pollutant Gases by Soils
- 087714 Study of the Significance of Frost Action and Surface Soil Characteristics to Wind Erosion at Rocky Flats, Colorado
- 087715 Thermoregulation and Temperature Relations of Alligators and Other Large Ectotherms Inhabiting Thermally Stressed Habitats
- 087716 Effect of Mountain-Valley Terrains on Dispersion of Pollutants
- 087717 Studies of the Environmental Impact of Evaporative Cooling Tower Plumes
- 087718 Improved Substrates for Electron Microscopy
- 087719 Behavior of Technetium-99 in Soils and Plants
- 087720 Iodine 129: A Study of its Transport in the Environment and Distribution in Biological Systems
- 087721 Synthesis and Biological Incorporation of ICONS into Macromolecules for NMR Study
- 087725 Combined Toxicity Effects of Chlorine, Ammonia, and Temperature on Marine Plankton
- 087727 Plutonium and Cesium Radionuclides in the Hudson River Estuary
- 087728 Reproductive Temperature Tolerance of a Desert Pupfish
- 087734 Cellular System for Screening and Analysis of Mutagenic, Carcinogenic and Teratogenic Agents. A Cellular Approach to Agricultural Genetics
- 087735 Interrelationship Between Certain Hydrographic Features Associated with Currents and Primary Production
- 087736 Immunological and Viral Aspects of Radiation-Induced Tumors
- 087737 Effects of Sublethal Levels of Heat and Oil on the Behavior of Aquatic Animals
- 087738 Sediment Response to Inner Shelf Hydraulic Regimes
- 087740 Revegetation Following Artificial Disturbance
- 087741 Ecology-Meteorology Workshop
- 087743 Strip Mine Reclamation: An Island Biogeographical and Ecosystem Energetic Approach
- 087744 Physiological Studies on Environmental Pollutants
- 087746 Molecular Mechanisms of Epithelial Transport of Toxic Metal Ions
- 087747 Physiopathology of Blood Platelets and Development of Platelet Substitutes
- 087748 Determination of Sulfur Speciation in Industrial Aerosols
- 087749 Molecular Basis for the Mutagenic and Lethal Effects of Ultraviolet Irradiation
- 087750 Studies of Lymphocyte Growth and Differentiation
- 087751 Investigation of the Pulmonary Effects of Intermetallic Beryllium Compounds
- 087756 SIMS Three Year Study on Statistics and Environmental Factors in Health
- 087757 Determination of Pu-239 in New York City Autopsy Tissue Samples
- 087760 Hallam Nuclear Power Facility, Environmental Surveillance
- 087761 Structural Response of Nuclear Shipping Containers Under Accident Conditions

- 087763 Plutonium Patient Analysis
- 087764 Studies of Semiconducting Metal Oxides in Conjunction with Silicon for Solid State Gas Sensors
- 087765 Health Effects of Combustion Generated Soots and Polynuclear Aromatic Hydrocarbons
- 087766 Characterization of Ionizing Radiation Damage in DNA
- 087767 Effect of LET and Microdistribution of Radiation on the Induction of Transformation In Vitro and In Vivo
- 087768 Comparative Evaluation of Effects of Ozonated and Chlorinated Thermal Discharges
- 087769 Plutonium Decorporation by Mixed Ligand Chelates
- 087770 Histocompatibility Typing in Mongrel Populations, Man and Dog
- 087774 Temporal Aspects of Tumor Response to Individual and Mixed Carcinogen Exposures
- 087775 Repair of DNA Treated with Gamma-Irradiation and Chemical Carcinogens
- 087776 Development of Advanced Physical Chemical Methods for the More Complete Isolation and Identification of Individual Polycyclic Aromatic Hydrocarbons and Associated Structures Present in Complex Mixtures
- 087778 Chemical and Biological Studies on Nucleic Acids and Derivatives
- 087780 Mechanisms of Mutagenesis: Analysis Through the Use of Alcohol Dehydrogenase in Drosophila
- 087782 Toxicity of Heavy Metals
- 087783 Cell Structure and Function
- 087784 Mineral Metabolism and Physical Biochemistry
- 087785 Physiopathology of Blood Platelets and Development of Platelet Substitutes
- 087786 Environmental Consequences of Atmospheric Kr-85
- 087787 Impact of Atmospheric Sulfur Dioxide and Carbon Dioxide on the Ecophysiology and Competitiveness of Plants
- 087788 Air Pollution Effects on Food Quality
- 087789 Likelihood Estimations of Vegetative Alteration Near Known or Proposed Sources of Air Pollution
- 087791 Genetic and Developmental Study of Complex Locus in the House Mouse
- 087792 Assessment of Energy Alternatives for New England
- 087793 Chemical Composition of Atmospheric Precipitation in Minnesota, with Special Reference to the Role of Windblown Dust in Neutralizing Acid Precipitation Resulting from the Combustion of Fossil Fuels
- 087794 Integrated Alternative Fuels and Energy Supplies and Environmental Control for the California Region. Phase I: Community of Riverside, California, Energy Plan
- 087795 Uptake of Sulfuric Acid Mist by Plant Canopies
- 087796 Trace Elements in Oil Shale
- 087797 Rehabilitation Potential and Practices of Colorado Oil Shale Lands
- 087798 Comparative Study of Effluents and Their Control from Four Dry Ash Lurgi Gasification Plants
- 087799 Feasibility Study on Transformer Noise Reduction System
- 087800 Maintenance of a Rural Precipitation Chemistry Center at Whiteface Mountain
- 087801 Analysis of LNG Storage and Transportation Characteristics
- 087802 Water Use and Wastewater Production at Solid Waste Processing/Energy Recovery Facilities
- 087803 Study of By-Products and Potential Pollutants from High Temperature Entrained Flow Gasifiers
- 087804 Noise: Its Biomedical and Environmental Considerations in the Energy Technologies
- 087805 Improved Water Management of Coal Conversion Processes by Preliminary Absorption of Halides
- 087806 Scale Effects in LNG Hazard Analysis and Testing
- 087807 Detection of Atmospheric Methane--Assessment of Some Detectors
- 087808 LPG Boiling Rates on Water
- 087809 Assessment of Environmental Control Aspects of Treatment of EOR Wastewaters Using Membranes
- 087810 Evaluation of the Effect of Coal Cleaning on Fugitive Elements
- 087811 Treatment of Coal Gasification Wastewater

087812 Evaluation of H₂S Control Technology for Geothermal Energy Sources

087813 Comparative Analysis of Hydrogen Fire and Explosion Accidents

087814 Detection of Nickel and Other Metal Carbonyls

087815 Analytical Chemical System for Determination of Heavy Metals and Organic Compounds in Natural Waters

087816 Development of a Rapid Scanning Spectrophotometer

087817 Determination of Fugitive Emissions from Coal Liquefaction Processes

087818 Cadmium Telluride Technology Development

087819 Estimation of the Skeletal Burden of "Bone-Seeking" Radionuclides from In-Vivo Scintillation Measurements of their Content in the Skull

087820 Development of an Aerosol Size Classifier

087821 Evaluation of CO in Blood Samples from the Second Health and Nutrition Survey

087822 Structural Organization of Chloroplast Membranes: Correlation of Grana Stacking to Light Harvesting Efficiency

087823 Microbial Production of Aliphatic Hydrocarbons

087824 Relationship of DNA Repair Processes to Mutagenesis and Carcinogenesis in Mammalian Cells

087825 PRP-Screen for Hazardous Chemicals: Rapid Detection of Health Hazards

087826 Study of Photoexcitation Electronic States of Pollutants in Gases by the Positron Method

087827 Microbiological Air Quality--Ames S.W. Disposal

087828 60-Hz Bioeffects in Mammals

087829 Net Energy Constraints on Coal Utilization and Conversion

087830 Cell Proliferation in Lymphoid Tissue and the Seminiferous Epithelium Under Continuous Low-Level Irradiation

087831 Studies on Mammalian DNA

087832 Electrical Power Generation--Comparative Risks and Benefits

087833 Electrical Power Generation--Comparative Risks and Benefits

087834 Electrical Power Generation--Comparative Risks and Benefits

087835 Research on the Health Effects of Fossil Fuel Combustion Products

087836 Evaluation of Carbon Monoxide in Blood Samples from the Second Health and Nutrition Survey

087837 Raft River Geothermal Ecology

087838 Mapping Project on Energy and the Social Sciences

087839 Alternative Technologies Available for the Development of Northern Great Plains Coal Resources

087840 Study of Intermolecular Interactions of Ozone

087841 Development of New Fluorescent Markers for Chromosome Study

087842 Genetic Recombination in Mammalian Cells in Culture

087843 Formation and Transformation of Polycyclic Organic Matter from Coal Combustion

087844 Sequence of Operator-Promoter Regions in the DNA of Bacteriophage

087845 Fluorescent Scattering by Molecules Embedded in Small Particles

087846 Polycyclic Aromatic Hydrocarbon--Protein Interactions

087847 Succession in Weedy Communities

087848 Development of Ecological Awareness Center

087849 Studies and Environmental Policy Analysis: Water Quality and Quantity Issues that Affect ERDA Programs

088001 Toxicity of Radioelements

088002 Controlled Environmental Release Test (CERT) Program

088004 Idaho National Engineering Laboratory National Environmental Research Park

088005 Idaho National Engineering Laboratory Site Ecological Studies

088006 Radiation Measurement Technology

088007 Idaho National Engineering Laboratory Site Radioecology Program
088011 ERDA Effluent Information System and On-Site Discharge Information System
088016 Hoisting and Rigging Manual(s)
088018 System Safety Management Program
088019 Accident Prevention Studies
088020 INEL Shutdown Reactors (Surveillance)
088022 Accident Investigation and Mort Training for Contractors
088023 Overall Evaluation of Data Output
088024 Establish and Operate ERDA Contractor Safety Performance Data System
088501 Marshallese Natives at Rongelap, Radiological Studies of the
088504 Continued Management of the Mid-Pacific Marine Laboratory, Eniwetok Atoll, Marshall Islands
088506 UCLA Support and Calibration Standards Maintenance
088508 REECC Logistical Support
088509 Computer Support--CETO
088511 Research Vessel Operations (Support Operation of LCU)
088512 Radiological Surveillance of South Pacific Islands
088513 Bioenvironmental Transport of Transuranic Elements Metabolism of Curium and Neptunium in Ruminants
088514 Hydrogeochemistry of Eniwetok
088515 Environmental Research Park Support
088517 Circulation and Chemistry of the Eniwetok Atoll Lagoon
088518 Aerial Measuring System (AMS)
088521 Pacific Radioecological Program
088530 Surplus Facility Surveillance (Gnome)
088531 WDS Fuel Packaging, Site Surveillance and Disposition
088532 Design for Medium-Scale LNG Spill Tests
088533 Gnome Site D/D
089001 Mammalian Genetics and Reproduction
089002 Late Somatic Effects of Energy Pollutants
089003 Cytogenetic Studies in Prenatal Mammals
089004 Plant Mutagenesis, Metabolism, and Morphogenesis
089006 Plant Science
089007 Health and Mortality Study
089008 Atmospheric Turbulence and Diffusion Research
089009 Marine Pollution Studies
089010 Terrestrial Ecology Program
089011 Comparative Study of Radiation, Chemical and Aging Effects on Viral Transformation
089012 Water and Geothermal Assessment
089013 Public Policy Issues in Nuclear Waste Management
089014 Portable XRF Survey Meter and Personal Sample Reader for Elemental Dosimetry of Industrial Atmospheres
089015 Fate of Chlorine in Seawater
089017 Marine Research Boat Operation
089018 Developmental Research
089019 Environmental Research Park Support
089020 Global Effects of Increasing Levels of CO2

- 089021 Onset of Biochemical Abnormalities Induced by Energy-Related Toxicant: (1) Function and Structure of Biomembranes and (2) Surfactants and Lung Metabolism
- 089022 Onset of Biochemical Abnormalities Induced by Energy-Related Toxicants, Surfactants and Lung Metabolism
- 089025 Coal-Related Disease Detection
- 089027 Effect of Irradiation and Environmental Hazards on Immune Systems
- 089028 Immunologic Surveillance Mechanisms in Natural and Laboratory-Induced Chimeric Models
- 089030 Health Impact of Hydroelectric Reservoirs in Tropics
- 089031 MERC--WVU Coal Toxicology Program
- 089032 Transport Interactions of Environmental Pollutants with Essential Nutrients
- 089034 Production, Purification, and Assay of Thrombopoietin
- 089036 Mechanisms of Innate Immunity: Cytoplasmic Granules of Polymorphonuclear Neutrophilic Granulocytes, Antimicrobial Action, Translocation, Role and Fate in Antimicrobial Phagocytosis
- 089037 Study of the Influence of Hormones on the Transport of Cations into and out of Bone
- 089038 Developmental Approach to the Study of Immunologic Tolerance
- 089039 Studies in Iodine Metabolism
- 089041 Regulatory Mechanisms of Eosinopoiesis
- 089042 Radiation Biophysical Study of Biological Molecules
- 089043 Mechanisms of Recombination and Function of DNA in Bacteria
- 089044 Molecular Biology of Reovirus Multiplication
- 089045 Research Program in Molecular Biophysics
- 089047 Formation and Repair of Gamma-Ray Induced Nucleic Acid Base Damage in Bacteria and Mammalian Cells; (new) Formation and Repair of Physically and Chemically Induced DNA Damage in Human Cells
- 089048 Biohazards Risk Analysis
- 089049 Enzymatic Synthesis of Eukaryotic Nucleic Acids
- 089050 Role of RNA Dependent DNA Polymerase in Gene Expression of *Neurospora crassa*
- 089052 Mutagenic Effect of Radionuclides Incorporated into DNA of *Drosophila melanogaster*
- 089053 Physico-Chemical Study of Some Areas of Fundamental Significance to Biophysics
- 089054 Repetitious Nature of Repaired DNA in Mammalian Cells
- 089056 A Study of the Biochemical Effects of Ionizing and Monoionizing Radiation of Plant Metabolism During Development
- 089057 Radiation and Chemical Effects on Viral Transformation and Tumor Antigen Expression
- 089059 Effect of Radiation-Sensitive Mutations and Radiation on Recombination in Partially Diploid Derivatives of *Escherichia coli*
- 089060 Physico-Chemical Studies of Radiation Effects in Cells
- 089061 Radiation and Biophysical Studies on Cells and Viruses
- 089062 Mechanism of Photorepair of UV-Damage by Photolyase
- 089064 Ecological Behavior and Effects of Energy Related Pollutants
- 089065 Nuclear Power and the Environment
- 089066 Ecology of South Florida Estuarine Systems
- 089069 Dynamics of the Recovery of Damaged Tundra Vegetation
- 089070 Geochemistry of Uranium and Thorium Series Nuclides and of plutonium in the Gulf of Mexico
- 089071 Studies of *Drosophila* Dispersal and Species Packing
- 089073 Investigation of the Unusual Behavior of Cesium-137 and Other Radionuclides in the Florida Environment
- 089074 Atmospheric Tritium
- 089075 Charged Particle Deposition Studies
- 089076 Electronic Properties of Liquids
- 089077 The Interaction of Heavy Kev Ions with Gases

089078 Assistance in the Further Development of Diving and Hyperbaric Research Center

089080 Energy Circuit Model of the United States

089082 Biodegradation of Organo Sulfur Compounds in High Sulfur Crude Oil

089083 Effect of Cyclic Temperature on Larvae of Marine Invertebrates

089084 Seagrass Community Processes in Coastal Zones of the Semitropics and Tropics

089085 Repair and Cell Cycle Response in Cells Exposed to Environmental Biohazards

089088 Adsorption and Diffusion of Plutonium in Soils

089089 Interaction of Slow Electrons with High-Pressure Gases (Quasi-Liquids) Synthesis of Our Knowledge on Slow-Electron Interactions

089091 Environmental Aspects of Coal Production in the Appalachian Region

089093 Development and Coordination of a Program of Energy-Related Oceanographic Research on the Continental Shelves of the Gulf of Mexico

089095 DPTA Chelation Therapy

089099 Benthic Community Metabolism on the Continental Shelf of the Northern Gulf

089100 Disposal of Contaminated Metal

089101 Weldon Spring Raffinate Pits Stabilization

089102 Epidemiological Models for Predicting Health Impact of Energy Related Facilities

089103 Effect of Fossil Fuel Pollutants on Human Health and Biota in the Tropics

089105 Transporting Radioactive Cargoes-Exhibit (Operations)

089107 National Spill Control School

089108 Puerto Rico Energy Model: An Aid for the Decision Process in Region Energy Policy Formulation

089110 Decontamination of ERDA Niagara Falls Site

089111 Decontamination of PRNC Reactor Facility

089112 Health and Mortality Study

089113 Physical and Chemical Properties of a Geothermal Submarine Spring

089115 Toxic Coal Particle Identification

089116 Management of the Red-Cockaded Woodpecker, an Endangered Species

089118 Environmental Effects of Carbon Dioxide

089119 Development of Transport Models for Environmental Pollutants

089120 Seasonal Interactions Among Estuarine Primary Producers and Herbivores

089121 In-House Energy Management Plan

089122 Cytological Study of Radiation Induced Alterations in Cytoplasmic Factors Controlling Male-Sterility in Corn

089123 Ecological Effects of Nuclear Steam Electric Station Operations on Estuarine Systems

089124 Nuclear Power Generation and the Environment

089125 Electrical Power Generation--Comparative Risks and Benefits

089126 Gulf Geothermal Ecology

089127 Gulf Geothermal Water Quality

089128 Energy Resources

089129 Special Energy Training Courses

089130 Radiation Emergency Assistance Center

089131 Training in Radiation Accident Management in Reactors

089132 Training

089501 ERDA Health Study (Lifetime Health and Mortality Experience of ERDA Contractor Employees with Occ. Radiation Exposure)

089502 U.S. Transuranium Registry of ERDA, ERDA Contractor and Licensee Employees

089508 Solute Drag and Membrane Transport Task Agreement No. 2

089509 Nature and Mechanism of Induction of Mutations

089510 Control of Plant

089511 Theoretical Studies of Gene Substitution, Geographic Variation, and Speciation

089512 The Physiology and Photochemistry of Ribonucleic Acids

089513 Trace Metal Associations in Sub-Arctic Fjord Environments

089514 Industrial Development in Alaska and its Effects on the Nutritional and Physiological Status of Arctic Animals

089517 Low Level Chronic Irradiation of Salmon

089518 Control of Productivity and Population Characteristics in Aquatic Communities

089519 Biogeochemistry of Transuranics-Bikini

089520 Biological Oceanography of the Coastal Waters off Washington

089521 Physical Oceanography and Sediment Transport on the Washington Continental Shelf

089522 Chemical and Geochemical Studies off the Coast of Washington

089523 Studies on the Concentrations of Iron-55 in South Pacific Ocean water and Marine Organisms, and in the Columbia River

089525 Determination of Diffusion Coefficients and Distribution Ratios of Americium, Curium, and Neptunium in Soil-Aquatic Environments

089526 Reproductive Biology of Trout in a Thermally Enriched River: The Firehole River of Yellowstone National Park

089527 The Effect of Graded Doses of Ionizing Radiation on the Human Testis

089528 Establishment, Succession, and Stability of Vegetation on Surface Mined Lands in Eastern Montana

089529 Survey of Viability of Indigenous Grasses, Forbs, and Shrubs: Techniques of Initial Acquisition and Treatment for Propagation in Preparation for Future Land Reclamation in the Ft. Union Basin

089533 Personnel Protection in Oxygen Deficient Atmosphere

089534 Hydrocarbon Studies in Puget Sound and off the Washington Coast

089536 Surveillance of Surplus Facilities

089537 Surplus Facilities Surveillance

089538 Contaminated Equipment Volume Reduction

089540 Transportation of Radioactive Cargoes Exhibit

089541 Alaska Regional Energy Planning Project

089542 Particulate Dynamics

089544 Nutritional Significance of the Copper-Bering River Intertidal Systems to Spring-Migrating Shorebirds Breeding in Western Alaska

089545 Cycling of Transuranic Radionuclides in the Columbia River, Its Estuary and the North Pacific Ocean

089546 Mesoscale Studies of Flow Regimes and Fluxes of Particulate Matter in Coastal Waters

089547 Heterogeneous Oxidation of Sulfur in the Atmosphere

089548 Precipitation Scavenging Studies

089550 CTD System for West-Coast ERDA Contractors

090001 Basic Studies of Physiological Systems

090002 DNA Replication and Repair

090003 Elucidation of Chromosome Structure

090005 The Effect of Prolonged Low Dose Rate Co-60 Gamma Ray Exposure of Beagles

090007 Cellular and Cytogenetic Evaluation of Radiation Quality

090008 Comparative Toxicity of Sr-90 and Ra-226

090009 Developmental Regulation

090010 Membrane Biosynthesis and Properties (Formerly General Metabolism)

090012 Molecular Mechanisms of Nucleoprotein Damage

090013 Molecular Damage to DNA and Its Modifications

090014 Mammalian Cell Biology
 090015 Biosynthetic Control
 090017 Cellular and Molecular Neurobiology
 090018 Developmental Neurobiology
 090025 Environmental and Host Factors in Lymphomagenesis
 090027 Dynamics of Trace Elements in Desert Environments
 090028 Chemical Problems
 090029 Distribution and Interrelationship to Trace Elements in Biological Systems
 090030 Ecophysiology of Desert Anthropods
 090031 Radionuclide and Stable Element Cycling
 090032 Physiology and Ecology of Desert and Other Plants
 090033 Vertebrate Physiological Ecology
 090034 Oxidative Damage
 090035 Assessment of Health Effects of Energy Systems
 090036 Soil Chemistry of Transuranic Elements
 090037 Studies of Cultured Mammalian Embryos
 090040 Early and Late Effects of Energy-Related Pollutants on Experimental Animals: Toxicity of I-129
 090041 Early and Late Effects of Energy-Related Pollutants on Experimental Animals: Growth in Modified Tissue Culture
 090042 Early and Late Effects of Energy-Related Pollutants on Experimental Animals: Canine Transfer Factor
 090043 Health Hazards Associated with Fossil Fuel Combustion in Electrical Power Generation
 090044 Mutagenesis: Mechanisms and a Potential Screening System
 090045 Embryo Cultures and Environment
 090046 Plant-Environment Interactions
 090047 Pulse Radiolysis Studies
 090049 Instrumentation Physics
 090050 Frederick Coop-Neoplasms
 090051 Verification of the Carbon Dioxide Buffer Factor of Surface Ocean Water by Direct Observation
 090052 Methanol Metabolism--Ecological Effects
 090053 Basic Studies of the Immune Response and the Effects of Radiation on this Response
 090055 Studies in Developmental Immunogenetics
 090056 The Detection and Analysis of Mutagens
 090057 Organelles and the Regulation of Plant Metabolism
 090058 Isotopic Studies on Structure-Function Relationships of Nucleic Acids and Enzymes
 090059 Biosynthesis and Secretion of Extracellular Proteins Involved in the Formation and the Degradation of Plant Cell Walls
 090060 Recovery and Analysis of Mutants Affecting Developmental Processes in *Drosophila Melanogaster*
 090061 Metabolic Control of Transport in Plant Tissues
 090062 Genetic Control of Gametogenesis in *Drosophila Melanogaster*
 090063 Endonucleases Involved in Repair and Recombination of DNA
 090065 Radiation Damage and Its Repair in Human Lymphocytes
 090066 Function of Chloroplast
 090067 Research on Dynamics of Tundra Ecosystems and Their Potential Response to Energy Resource Development
 090068 ESR Studies of Thiyl Free Radicals in Relation to Biological Effects of Radiation
 090069 Studies on the Repair of Damaged DNA in Bacteriophage, Bacterial and Mammalian Systems
 090070 Repair of Damaged DNA in vivo

090071 Micro-Zooplankters in the Marine Food Chain

090072 The Study of Dynamic Features Controlling the Coastal Environment Near the San Onofre Power Plant

090073 Marine Geochemistry Research

090074 Distribution and Fate of Biogenic and Petroleum-Derived Substances in Marine Substances

090075 Investigations of Physical Processes Affecting Leaf Temperature Profiles and Primary Production in the Red Mangrove Ecosystem and Research on the Dynamics of Arctic Tundra Ecosystems

090079 Processes of Energy Deposition by Heavy Particle Impact

090080 Mutation Rates and Mutational Loads in Man

090081 Genetic Structure of Natural Populations

090083 Studies of the Repair of Radiation-Induced Genetic Damage in Drosophila

090088 Physical Mechanism of Action of the Photoreactivating Enzyme

090093 Chronic Irradiation and Brain Development

090096 Atmospheric Effects Caused by Waste Heat Rejection from Large Electrical Power Generating Facilities

090097 Effect of Habitat Conditions on Spatial Parameters of Shorebird Population

090100 E and D of Snp Facilities

090101 D and D of SRE Facilities

090103 Energy Facility Siting Studies

090104 Solving Social and Economic Problems Related to Energy Development

090105 Studies of Biomedically Relevant Properties of Particulate and Gaseous Products of Energy Technologies

090106 The Influence of Late Radiation Effects on the Immunologic Parameters of Aging

090107 Bio/toxicological Consequences of Utilizing Exhaustible and Inexhaustible Reserves

090108 Organizational Relationships Between Coastal Energy Facility Siting (EPS) and CZM Programs

090113 Environmental Control Technology Aspects of Coal Slurry Transportation

090114 Planning for D/D of Facilities

090115 Environmental Control Technology Requirements for Future AC, HV Overhead Transmission Facilities

090116 ING Wind Tunnel and Instrumentation Assessments

090502 Thermal Effects Program

090503 Dose-To-Man

090505 Forest Management

090506 Forest Management (1979)

090508 Pu and H-3 Cycling in Coastal Waters

090509 Atmospheric Release Advisory Capabilities - S.E.U.S.

090510 Radioecology of Transuranic Elements

090511 Transuranics in Environment Systems

090512 Krypton-85 and Tritiated Methane Measurements

090515 Management of Natural Resources

090516 Cycling of Heavy Metals and Other Stable Elements

090517 Cycling of Radioisotopes

090518 Ecology of Moderate Thermal Regions

090519 Ecology of Natural Thermal Regions

090520 Ecology of High Thermal Regimes

090521 National Environmental Research Park

090522 Physical Oceanography Modeling

090523 Bcdy Studies (NOAA)

090525 National Environmental Research Park (NERP) Support

- 090528 Development of New Techniques of Using Irradiation in the Genetic Improvement of Warm Season Grasses and an Assessment of TH
- 090529 Mechanism of Energy Transfer and Conversion in Bioluminescence
- 090530 Nucleic Acid Metabolism During Seed Embryogenesis
- 090531 RNA Metabolism in the Regulation of Protein Synthesis in Plants
- 090532 A Study of the Non-Histone Chromatin Proteins with High Affinity for DNA
- 090534 Radioactive Tracer Studies of Soil and Litter Arthropod Food Chains
- 090536 Flux of Energy and Essential Elements Through the Continental Shelf Ecosystem
- 090538 The Response of Estuarine Fish Embryos to Environmental Temperature Shock
- 090539 A Multidisciplinary Research Program Directed Toward Utilization of Solar Energy through Bioconversion of Renewable Resources
- 090540 Continental Shelf Processes Affecting the Oceanography of the South Atlantic Bight
- 090541 Trace Element Geochemistry of the South Atlantic Bight
- 090542 Impact of Thermal Loading and Other Water Quality Parameters on the Epizootiology of Epistylis and Aeromonas Infections in Centrarchids
- 090544 Continental Shelf Processes Affecting the Oceanography of the South Atlantic Bight
- 090548 Biological Processes in the Water Column of the South Atlantic Bight
- 090550 Surplus Facility Surveillance (HWCTR Stand-By)
- 090551 Environmental Studies--T-3 as Tracer
- 090552 Research Aircraft Program
- 090553 Cooperative Forest Management Research
- 090554 Fuel Plantation Research
- 090555 Management: Southeast Continental Shelf Studies
- 090560 Aeromonas Hydrophila as an Agent of Infection in Alligators
- 091001 Basic Radiation Estimates and Evaluations
- 091002 Genetic and Cytogenetic Studies
- 091003 Aging and Mortality Studies
- 091004 Epidemiological Studies of Specific Diseases, Development and Metabolic Processes and Other Physiologic Phenomena
- 091005 Neoplasia Studies; Late Effects of Radiation on the Populations of Hiroshima and Nagasaki
- 091006 Biochemical Genetics Studies
- 091007 Radioactivity on the Earth's Surface
- 091008 Radioactivity in Surface Air
- 091009 Radioactivity in Stratospheric Air
- 091010 Evaluation and Development of Sampling Systems
- 091011 Radioactivity in the Biosphere
- 091012 Radiochemical Development Studies
- 091013 Analysis of Samples of Ocean Water
- 091014 Basic Computations and Experiments
- 091015 Radiation Dosimetry
- 091016 Assessment and Control of Radioactive Air Contaminants
- 091017 Aerosol Technology
- 091018 Development Studies in Instrumentation
- 091019 Evaluation Studies of Instrument Components
- 091020 Analytical Development Studies
- 091021 Trace Elements in the Biosphere
- 091022 Documentation of Natural Activity Levels in the Biosphere

091023 Non-Nuclear Pollutants in Surface Air

091024 Assessment and Control of Non-Nuclear Air Contaminants

091029 Inconvenience Payment to Utirik People

091032 The Cytogenetic Bases of Resistance to Radiation-Induced Sterility in Insect Species with Holokinetic Chromosomes

091037 Flow of Energy Cycling of Elements and Effects of Environmental Change in Estuarine and Nearshore Oceanic Ecosystems

091038 Behavioral Measures of Environmental Stress: Marine Fishes and Invertebrates

091040 Project Ash Can

091041 Airlift Support of Project Ash Can

091042 Part I. Transport, Deposition, and Meteorological Effects of Atomic Debris in the Atmosphere

091045 Advisory Center on Toxicology

091046 Study of Plutonium Oxide in a Natural Environment; Project Indola

091053 Airstream

091060 Health Effects--Krypton

091061 Development of a National Plan for the Safety and Health of Divers in Their Quest for Subsea Energy

091062 Gulf Geothermal SEIS/SUBS

091063 Remote Measurement of Atmospheric Pauam

091064 Studies and Environmental Policy Analysis: Air Quality Issues that Affect ERDA Programs

091065 Social and Economic Impacts of Energy Facilities Siting

091070 Energy and Social Science Evaluations

091071 Health and Safety Effects on Productivity in Eastern and Western Coal Mines

091072 Assessment of the Potential Environmental Conflicts of Energy Conservation Activities

091073 Analysis Assistance: Presidential Messages

091074 Energy Policy Analysis Document

091075 Studies of Selective Laser Methods for the Detection of OH, OH₂, ClO and Other Trace Constituents in the Atmosphere

091076 Cooperative Effort for Development, Fabrication, and Evaluation of Gas Analysis and Detection System for Multiple Trace Gas Characterization Measurement and Monitoring

091077 Assessment of Oil Spill Prevention and Clean-up

091078 Environmental Implications of Acid Mine Drainage

091123 Impacts Associated with Offshore Power Plants-Transport and Fate of Nickel, Copper and Zinc in Coastal Waters of North Carolina

091124 Effects of Condenser Passage on Marine Organisms

091125 Non-nuclear Pollutants on the Earth's Surface

091131 Standard Neutron Fields

091134 Fire Safety Aspects of Polymeric Materials

091135 Standards Program Plan

091136 Special Operations and Surveillance

091143 Identification of Toxic Coal Particulates

091144 Study for Energy Conservation in the Treatment of Industrial Wastewaters

091145 Biogeochemistry of Petroleum Components at the Sediment-Water Interface

091157 Non-Nuclear Pollutants in Stratospheric Air

091160 Policy Issues Related to Coal Conversion to Synthetic Fuels

091161 Development of a Technical Assistance Manual for Management of Transmission Line Rights of Way for Fish and Wildlife

091163 Manuscript for a Public Information Document Describing Environmental Programs

091164 Second International Conference on Environmental Future on 'Growth Without Ecodisasters'

091165 Workshop, The Role of Oceanic Fronts in Coastal Processes

091166 Shaping Energy Policy: Alternatives, Priorities, and Infrastructure

091167 Bistate Conference on the Chesapeake Bay To Be Held April 27-29, 1977, in Leonardtown, Maryland

091168 Investigation of the Capture of Sulfur Dioxide and Oxygen by Condensation of Water in Droplets, Fogs, and Aerosols

091170 Environmental Impact Analysis of the National Energy RD and D Plan

091171 Interim Planning and Test Support for Homer City Coal Cleaning Demonstration

091172 Environmental Impacts of Energy Production Facilities Using Solar Derived Fuels

091173 Assessment of Energy Conserving Industrial Waste Treatment Processes

091174 Partial Support from the Energy Research and Development Administration for the ICMSE Study on University Oceanography

091175 Water Quality Criteria and National Energy Goals

091176 Comparative assessment of Net Energy Methodologies As Applied to Fuel Cycle Evaluation

091177 Legal Study of Water Appropriation in the Eastern United States

091178 Development of the Upgrade System

091179 Health Effects of Combustion Generated Soot and Polycyclic Aromatic Hydrocarbons

091180 Electron Transport Calculations with Biomedical and Environmental Applications

091181 Transportable, Self-Contained HF Shore-Based Radar System

091183 Medium-Scale LNG Spill Tests

091184 Analysis of the Environmental Control Technology for Oil Shale Development

091185 Oil and Hazardous Materials Simulated Environmental Test Off Shore Testing

091186 Field Test of Oil Spill Cleanup Equipment

091187 Assessment of Hazards and Control of LNG Spills on Water

091188 Characterization of Contaminants in Oil Shale Residuals and the Potential for Their Management to Meet Environmental Quality Standards

091189 Evaluation of H₂S Control Technology for Geothermal Energy Sources

091190 Waste Heat Management in the Electric Power Industry: Issues of Energy Conservation and Station Operation Under Environmental Constraints

091191 Assessment of Practicality of Oil Spill Treatment

091192 Eleventh International Symposium on Remote Sensing of the Environment

091193 Partial Support--Ocean Sciences Board

091194 Partial Support of the University National Oceanographic Laboratory System (UNOLS) Office

091195 Absorption by Vegetation, Foliar Rates and Effects on Photosynthesis of Phytotoxic Air Pollutants Resulting from Fossil Fuel Utilization

091196 Effects of Sulfur Dioxide and Nitrogen Dioxide on Vegetation

091197 An Inner Shelf Sediment Transport Experiment, Coastal Long Island (INSTEP)

091198 Analysis of Air Quality and Meteorological Baseline Data from Federally Leased Oil Shale Tracts in Colorado and Utah

091199 Sources of Ozone and Sulfates in the Northeastern U.S.

092501 Uranium Mill Tailings--GJ

092502 U-Mill Tailing--Phase II

093050 Environmental Aspects of In Situ Oil Shale Processing

093051 Laboratory Determination of Leaching Rates from Oil Shale Retorted Under Simulated In Situ Retorting Conditions

093052 Biological Degradation of the Soluble Organic Components in Retort Water

093053 Water Conservation with In Situ Oil Shale Development

093054 Monitoring of Emissions from an In Situ Coal Gasification Test

093066 Mechanical Perturbation Studies of MHD Superconducting Magnets

093067 Study of Coal-Associated Wastes Resulting from Mining Processing and Utilization
 093068 MHD High Performance Demonstration Experiment
 093069 Development Program for MHD Direct Coal-Fired Power Generation Test Facility
 093070 Coal Gasification Environmental Problems from Trace Materials in By-Products
 093071 Hazardous and Other Undesirable Elements and Compounds in Supplementary Gaseous and Liquid Fuels from Coal
 093072 ERDA, FE/MHD Operational Support
 093073 System Analysis and Establishment of Design Criteria
 093074 Develop Reference Designs for Superconducting MHD Magnets for Both Experimental and Base Load Plants
 093075 Support in Planning and Managing ERDA's Super Conducting MHD Magnet Development Program
 093076 Guidelines and Methodologies for Environmental Reports
 093077 Westinghouse--ETP
 093078 Investigation of the Potential for Utilization of Saline Groundwater in Energy-Related Processes
 093079 CDIP Project Management Support and Related MHD Development Efforts
 093080 CDIP Integration
 093081 Development of Conceptual Designs for Water Treatment in Demonstration Plants
 093082 Water Discharge Monitoring Program, Synthane Pilot Plant
 093083 Role of Spent Shale in Oil Shale Processing and the Management of Environmental Residues
 093084 Mineralogical and Geochemical Study of the Colorado Oil Shales
 093085 Removal of Ammonia and Alkalinity from Oil Shale Retort Water
 093086 Monitoring Trailers, Synthane Pilot Plant
 093087 Stack Sampling Program, Synthane Pilot Plant
 093088 Ambient Air Monitoring Contractor Services--Synthane Pilot Plant
 093089 Water Impacts of In-Situ Energy
 093090 Environmental and Conservation Concerns of In-Situ Fossil Energy Research and Development Projects
 093091 Development and Application of a Methodology for the Socioeconomic Impacts of Demonstration Plants
 093092 Landfill Storage of Solid Wastes from Coal Conversion
 093093 Analysis of Potential for Energy Conservation in Coal Conversion Processes
 093094 Coal Conversion Technology, Environmental and Control Technology Assessment
 093095 Study of Contaminants in Oil Shale Residuals
 093096 Assistance in Assessing Water Resource Applications of ERDA Fossil Energy Technologies
 093097 Air Pollution and Its Control in Fossil Energy Processes
 093098 Environmental Review of the Solvent Refined Coal Plant at Ft. Lewis, Washington
 093099 Environmental Aspects of Fossil Demonstration Plants
 093100 Impacts of Clean Air Amendments on Fossil Energy Projects
 094001 Labile SO₂ Complexes as a Scavenging Basis
 094002 Atmospheric Particle Chemistry and Sulfur-Emission Control Studies
 094003 Actinide Chemistry
 094004 Atmospheric Pollution Monitoring by Diode Lasers
 094005 Chemical Analysis
 094006 The Chemistry and Physics of Condensation Nuclei Formation in Gas-to-Particle Reactions
 094007 Chemistry of Radioiodine in High Radiation Fuel Separation
 094008 Collection of Noble Gases with Oxidizing Salts
 094009 Combustion and Pollution Chemistry: Gas Phase Radiolysis
 094010 Cyclic Separations Process Research

094011 Formation of Oxyacids of Sulfur from SO₂

094013 Mass Spectrometry Research for Organic and Inorganic Analysis

094014 Metastable Fluids

094015 Partitioning and Concentration of Long-Lived Radioelements from Reactor Wastes

094016 Photochemistry of Materials in the Stratosphere, Lawrence Berkeley Laboratory

094017 Research in Chemical Kinetics

094018 Research in Nuclear Chemistry

094020 Solvent Extraction Studies Using High-Molecular Weight Amines

094021 Study of Atmospheric Trace Gases CO, NO/sub x/, Halogenated Hydrocarbons and Free Radicals by Mass Spectroscopy

094023 Tritium Separation Technology

094024 Waste Stream Processing Studies (EE 03 02 02)

094031 Investigation of the Removal of Hydrogen Sulfide from Simulated Geothermal Brines by Reaction with Oxygen

094032 Removal of Hydrogen Sulfide from Geothermal Steam by Catalytic Oxidation

094033 Control of Hydrogen Sulfide Emission From Geothermal Power Plants

094041 Fusion Magnet Safety Studies, Superconducting

094042 Environmental Effects

094051 Solar Energy Program Assessment

094053 Environmental Studies Related to the Operation of Wind Energy Conversion Systems

094060 Potential Effects of Solar System Working Fluids as Ecosystem Contaminants

094061 Environmental and Fire Hazard of Heat Transfer Fluids and Storage Media-Solar Heating, Cooling

094062 Environmental Development Plans for Solar Energy

094063 Preliminary Assessment of the Impact of Solar Collectors on Desert Ecosystems

094064 Assessment of Environmental and Occupational Health Effects of Photovoltaic Cell Manufacturing

094065 Over-Temperature and Fire Hazard Investigation of Residential Solar Heating-Cooling Systems (SHAC)

094066 Solar Heating and Cooling of Buildings

094067 Potential Effects of Solar System Working Fluids as Ecosystem Contaminants

094068 Broadcast Interference by Windmills

094069 Health Effects of Materials Used in Solar Heating and Cooling Systems-Assess Using Bio Systems

094070 Chemistry of Transuranium Elements and Compounds

094071 Safety Studies of EPR Conceptual Designs

094072 Safety of Fusion Reactors

094073 Reactor Safety Studies

094074 Lithium Spill Studies

094075 Fusion Systems Safety Analysis

094076 Definition of Environment and Safety Programs for Magnetic Fusion

094077 Seismic Monitoring at the Geysers Geothermal Field

095001 Waste Utilization Program, Sludge Thermoradiation

095002 Marine Environmental Test Program

095003 Environmental and Radiological Safety Studies

095005 Atmospheric Effects of Nuclear Energy Centers

095006 Seismic Studies

095007 HTGR Accident Initiation and Progression Analysis

095008 High Temperature Gas Reactor (HTGR) Safety Research

095013 GCPR Safety Aspects of Fuel and Core

095014 Gas Reactor In-Pile Safety Test (GRIST)
 095015 Gas Cooled Fast Breeder Reactor (GCFBR) Accident Initiation and Progression Analysis
 095016 Gas Cooled Fast Reactor (GCFR) Safety Experiments
 095020 Airborne Waste R and D
 095021 Defense Waste Processing R and D
 095022 Commercial Nuclear Waste Management Terminal Storage Research and Development
 095023 Commercial Radioactive Waste Processing Research and Development
 095024 Defence Rad Waste R and D, Terminal Storage
 095030 Environmental Effects of Advanced LMFBR Fuels
 095032 Meteorological Studies (NOAA)
 095033 Evaluation of Models for Assessment of LMFBR Radioactivity Releases
 095034 Chalk Point Cooling Tower Project (CPCTP)
 095035 Analysis of Submerged Diffuser Discharges
 095036 LMFBR Safety Program
 096008 Technology Assessment of Alternative Transportation Fuels, Phase I
 096009 Electric Car Impact Assessment
 097001 Energy Model Data Base
 097005 Rural Climatological Dispersion Model
 097006 Toxic Pollutant Data Development
 097007 Explore Governmental and Industry Interfaces Concerning Socioeconomic Impacts and Plan a Conference
 097008 Handbook for Private Sector Involvement in Mitigating Socioeconomic Impacts
 097009 Socio-Economic Impact of the ERDA Gaseous Diffusion Plant Expansion (Portsmouth, Ohio)
 097010 Evaluation of Effectiveness of Nontechnological Component to Project Weatherization
 097011 Strategies to Assist Occupants of Public Housing to Conserve Energy
 097012 Psychological Strategies to Reduce Energy Consumption
 097013 Energy Conservation Technology Education Program
 097014 Energy Systems for Islands
 097015 Strategy/Economic Analyses on Transition From Oil and Gas to Alternate Fuels in Energy Conversion Devices
 097016 Analysis of the Role of Energy Storage Power Systems in National Transportation
 097017 R and D Project Evaluation
 097018 Assessment of Impacts of Energy Production on Local, Regional and National Scales-Energy Related Regional Studies Program
 097019 Social Impact Method Evaluation: Pacific Northwest Plants
 097020 Assessment of Social Values in Thermal Plant Siting
 097021 Social-Community Infrastructure
 097022 Measurement and Analysis of Subjective Judgements Concerning Energy Development
 097023 Social Impacts of Coal and Nuclear
 097024 Economic and Energy Patterns
 097025 Population Futures about Coal Sites
 097026 Development and Maintenance of the LBL Socioeconomic Environmental Demographic Information System
 097027 IVEP Geothermal: Socioeconomic Assessment
 097028 Assessment of Energy Development on Indian Lands
 097029 Programmatic Environmental Impact Statement, Synthetic Fuels Commercialization Program
 097030 Rocky Mountain Regional Studies

- 097031 Information as a Function of Plant Size and Criteria Appropriate for Optimum Plant Mix for a Synthetic Fuel Information Program
- 097032 TECNET (Transportation Energy Conservation Network)
- 097033 Institutional Aspects of Energy Centers
- 097034 National Coal Utilization Assessment/Local Socioeconomic Sensitivity Analysis
- 097035 National Coal Utilization Assessment/Evaluation of Impact Mitigation and Management Policies
- 097036 Socio-economic Impacts Associated with Conservation Projects
- 097037 Energy Planning and Design, Guidelines for the New Alaska Capital
- 097038 Organizational Approaches to Energy Related Growth
- 097039 Comprehensive Community Energy Planning and Management
- 097040 Design of a Methodology to Analyze Second Order Environmental and Economic Impact of Energy Conserving Technology
- 097041 CBRF Environmental Studies
- 097042 Society Interaction Assessment of CBRP
- 097043 Analysis of Public Perception Related to Nuclear Fuel Cycle Activities
- 097044 Transportation of Radioactive Materials
- 098001 Early and Late Effects of Energy-Related Pollutants on Experimental Animals--Effects of Environmental Pollutants on the Development of the Immune Response
- 098011 Early and Late Effects of Energy-Related Pollutants on Experimental Animals - Evaluation of the Tumorigenic Enhancing Potential in Liver of Polycyclic Aromatic Hydrocarbons
- 098012 Detection and Characterization of Damage in Physiological, Cellular, and Molecular Systems; Chemical and Molecular Interactions of Toxic Pollutants with Biological Molecules
- 098020 Labeled Molecules as Probes of Acute Pollutant Effects
- 098023 Effects of Potentially Hazardous Agents Associated with Coal and Oil Shale Technologies on DNA Damage and Its Repair
- 098024 Damage of DNA Synthesis by Trace Metals and Hydrocarbons
- 098025 Chemical Screening Test for Hydrocarbon Carcinogenicity/Mutagenicity Using EPR
- 098030 Multi-Mode Scanning Electron Microscopic Analysis of Individual Pollutant Particles in Lung
- 098033 Toxic Air Pollutants: Lung Disease
- 098034 Chemical Mutagenesis and Carcinogenesis
- 098047 Coordinate R and D Information and National Design and Develop and Maintain R and D Energy Files
- 098050 Lung Cell Injury and Repair After Inhalation Exposure to Particulate Acid Sulfate
- 098053 Effect of Acid Sulfate Particles and H/sub 2/SO/sub 4/ Mists on the Anti-Bacterial, Anti-Viral and Particle Clearance Mechanisms of Lung
- 098054 Cardiopulmonary Injury and Repair After Inhaling Acid Sulfate Aerosols
- 098057 Development of Improved Generation Methods and Sizing Instruments for Fine Particles in Aerosols for Characterizing Inhalation Hazards
- 098061 Evaluation of the Mechanisms of Energy-Related Toxic Agents on the Mammalian Hematopoietic System Using Flow Microfluorometric Analysis
- 098062 Role of the Immune System in Experimental Chemical Toxicity and Carcinogenesis
- 098063 Evaluation of the Dose-Effect Relationships for the Immune Response to Biologically Active Agents Associated with Coal Gasification Technology
- 098066 Effects of Hazardous Agents Associated with Coal and Oil Shale Extraction, Conversion or Utilization on Cell-Cycle Kinetics and on Chromatin/Chromosome Structure
- 098069 Development of an On-Line Aerosol Size-Mass Monitoring Instrument
- 098081 Preliminary Assessment of Effects of Gaseous Effluent Mixtures from Coal Conversion Technology on Terrestrial Plants
- 098082 Impacts of Trace Elements from Coal Conversion on Aquatic Ecosystems
- 098083 Physical Transport of Organic Contaminants in Aqueous Coal Conversion Effluents
- 098086 Rapid Assay for Carcinogenic Potential of Energy Related By-Products
- 098087 Tracheal Graft Model System for Evaluating Toxicity and Carcinogenicity of Polycyclic Hydrocarbons

- 098088 The Role of Irritant Gases on the Susceptibility of Respiratory Tract Epithelium to Tumor Induction
- 098089 Organ Culture Studies with Tracheal Mucosa Pre-Exposed In Vivo to PCH
- 098090 The Use of Selected Teratogenic Test Systems to Identify Hazardous Agents Associated with Nonnuclear Energy Technologies, and to Determine Effective Levels of Such Agents
- 098093 Characterization of Damage to DNA Caused by Chemical Agents: Emphasis on Synergistic Effects in Combination with Sunlight
- 098094 Regulatory Processes in Damaged Cells
- 098110 Alveolar Clearance of Metal Oxides
- 098111 Environmental Effects of Oil Shale Development
- 098112 The Immediate Effects of Effluents From Coal Utilization on the Behavior and Physiology of Freshwater Biota
- 098113 Immediate Effects of Anti-Fouling Biocides from Coastal and Offshore Power Plants on Selected Ecosystems and Associated Organisms
- 098114 Power Plant Heat and Chemical Effluent Effects on Selected Marine and Estuarine Communities
- 098116 Effects of Refinery Wastes and Oil from Transfer Facilities on Pacific Northwest Marine Coastal Ecosystems
- 098118 Lung Toxicity of Sulfur Pollutants
- 098121 Applications of Holography
- 098135 Atmospheric Sciences: Potential of Energy Extraction Processes in the Northern Great Plains for Heavy Metals Contamination and Consequent Uptake and Turnover in a Range Ecosystem Model
- 098136 Terrestrial and Aquatic Ecosystem Effects of Coal-Fired Power Plants in the Northern Great Plains
- 098137 (A) Laser Pumped Luminescence and Microwave Resonance; (B) Abs. Mass Calibration of Air Particulate Filters
- 098151 The Study of Autoxidation of Lipids of Biomembranes and of Lung Surfactants Initiated by Oxidative Pollutants and Its Inhibition by Antioxidants
- 098152 Reparative and Adaptive Mechanisms in Respiratory Systems of Rodents and Monkeys Exposed to Sulfur Compounds and Particulates
- 098153 Early and Late Effects of Energy-Related Pollutants on Experimental Animals; Evaluation of Airborne Hazards
- 100025 Application of Ohio State Implementation Plan Methodology to the EPA Section 4 ESECA Review
- 100026 Five Tasks Related to Air and Water Quality Impacts from Energy Resource Development
- 100027 Analysis of Energy Resource Development Impacts of Clean Air Act Amendments and Related EPA Activities
- 110001 Characterization of Contaminants in Oil Shale Residuals and the Potential for Their Management to Meet Environmental Quality Standards
- 110002 Nature and Role of Polymetallic Clusters in Oxidation Catalysis
- 110003 Diagenesis of Pelagic Siliceous Sediments
- 110004 Sources, Transformation, and Chemical Nature of Atmospheric Pollutants
- 110005 Chemical Model Systems for Dioxygenases
- 110006 Effects of Cadmium, Polychlorinate and Biphenyl Chlorinated Naphthalene on Mollusks from the Gulf of Mexico
- 110007 Geochemical Ocean Sections Study--GEOSecs--Isotopic Measurements
- 110008 Optimization of Environmental and Energy Related Systems
- 110009 Concentration Modulation for Remote Detection of Stack Pollutants
- 110010 Research Initiation and Support (RIAS)
- 110011 Distribution of Spilled Oil in Relation to Beach Morphology
- 110012 Research Initiation and Support
- 110013 Reactor and Crossed-Jet Studies of the Dynamics of Free-Radical Reactions
- 110014 Hydrogen Sulfide and Reduced Forms of Sulfur in Air
- 110015 Statistics and Origin of Haze in the Central United States
- 110016 Case Studies of the Impact of Natural Resource Technologies on the Values of Two Contrasting Socio-Cultural Communities

- 110017 System Control of Anabiotic and Catabiotic Phenomena in the Below-Ground Ecosystem
- 110018 Information Support Services for Chemical Threats to Man and the Environment Program
- 110019 Research Initiation and Support--Organization of a Resource Recovery Experimentation Station
- 110020 Inadvertent Weather Modification by Effluents from Coal-Fired Electric Power Plants
- 110021 Supplement to Mercury in the Environment at Almaden, Spain
- 110022 Precise Experimental Determination of the Carbon Dioxide Buffer Factor of Sea Water
- 110023 Social and Psychological Effects of Rapid Community Development (Doctoral Dissertation)
- 110024 Special Foreign Currency Award (2,530,000 Polish Zlotys) to Study Flame and Detonation Propagation in Coal, Dust, Methane, Air-Mixtures
- 110025 Fundamental Aspects of Flame and Detonation Propagation in Coal Dust, Methane, Air Mixtures
- 110026 Study of the Abundance of Carbon Dioxide in the Atmosphere and Its Exchange with the Ocean
- 110027 Antarctic Tritium
- 110028 Effects of Air Pollution on Epiphytic Cryptogams
- 110029 Geochemical Ocean Sections Study--Geosecs--Sediment Dissolution, Model for Fossil Fuel CO₂
- 110030 Measurement of Sulfur Dioxide Oxidation on Particulate Surfaces
- 110031 Geochemical Ocean Sections Study--GEOSSECS--Sediment Dissolution (Model for Fossil Fuel CO₂)
- 110032 Radiative Energy Transfer in Gases
- 110033 Organic Geochemical Interactions in the Okefenokee and Everglades Peat-Forming Environments
- 110034 Phthalate and Chlorinated Hydrocarbon Effects on Marine Biota
- 110041 Energy Conservation in Housing
- 110042 Modeling of International Long Range Development and Supplies
- 110043 Validation and Enhancement of Lorendas Modelling System
- 110044 Energy Vulnerability of Alternative Systems of Agricultural Production
- 110045 Energy Vulnerability of Alternative Systems of Agricultural Production
- 110046 Resource Conserving Agricultural Production Methods
- 110047 Field Studies of Biologically Produced Atmospheric Sulfur Compounds
- 110048 Hydrogen Sulfide and Reduced Forms of Sulfur in Air
- 110049 Assessment of the Potential for Applying Urban Wastes to Agricultural Lands
- 110050 Utilization of Waste Heat from Power Plants in Aquaculture
- 110051 Evaluation of Alternative Energy Leasing Strategies and Schedules for Federal Lands
- 111003 Beach Morphology in Relation to the Distribution of Oil from a Spin in the Straits of Magellan
- 111004 Microbiological Effects of Petroleum Accumulation on Beaches
- 111008 Petroleum Industry in the Delaware Estuary
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