

NIOSH

PROGRAM PLAN by program areas

Fiscal Year 1982

U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES
Public Health Service
Centers for Disease Control
National Institute for Occupational Safety and Health

PROGRAM OF THE NATIONAL INSTITUTE FOR OCCUPATIONAL SAFETY AND HEALTH

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Program Plan by Program Area for FY 1982

DHHS (NIOSH) Publication No. 82-108

U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES
Public Health Service
Centers for Disease Control
National Institute for Occupational Safety and Health

December 1981

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PREFACE

"In the future the worksite should draw more and more attention
as the most logical setting for our prevention efforts."

Richard S. Schweiker
Secretary of Health and Human Services
Conference on Alcohol, Drug Abuse, and Mental
Health Promotion/Prevention at the Workplace
June 17, 1981

A striking similarity in the names of the National Institute for Occupational Safety and Health and its parent agency, the Centers for Disease Control (CDC), is the simple preposition "for." This preposition implies that CDC and NIOSH not only study public health problems, but also do something about these problems. The policy of the U.S. Public Health Service (PHS) and the Department of Health and Human Services is to prevent disease and injury through health protection, health promotion and the delivery of appropriate preventive health services. Among other activities, CDC and NIOSH protect the public health by recommending sound policies for intervention. To assure that these recommendations are scientifically sound in the area of occupational safety and health, NIOSH conducts a program of directed research. NIOSH has an overall management strategy for protecting worker safety and health which incorporates four points.

First, NIOSH planning addresses the "1990 Objectives for the Nation." These objectives of the PHS were developed by the public health community. In addition, the NIOSH plan will incorporate the objectives of the PHS National Toxicology Program. The objectives for occupational safety and health specify areas in which deaths, injuries, and illness can be reduced and eventually eliminated.

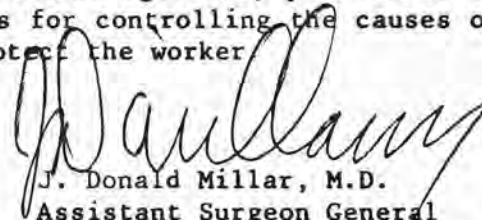
Second, NIOSH plans are integrated with the CDC's strategy for preventing premature mortality, reducing unnecessary morbidity and improving the quality of life. In addressing occupational disease and injury, NIOSH will seek to work with the public health structure of the Nation, as CDC has done to combat preventable disease. This structure includes State and local health departments, schools of public health and medicine, occupational safety and health professionals, and private and public health practitioners, voluntary agencies and other health workers.

Third, NIOSH planning reflects requests to us from client agencies in the Department of Labor: the Occupational Safety and Health Administration, the Mine Safety and Health Administration, and the Employment Standards Administration. The organization that compiles these requests from our clients is called the NIOSH Planning Group.

Fourth, the strategies of NIOSH are organized into five major tactical programs with corresponding goals, constituting a system for defining and solving occupational safety and health problems. These programs enable NIOSH to --

1. Identify occupational safety and health problems so as to detect and define epidemiologically significant changes in the status of occupational safety and health.
2. Evaluate occupational safety and health problems and occupational hazards so as to understand their causes and to detect their vulnerabilities to prevention.
3. Control occupational safety and health problems through discovering, assessing, and improving measures to reduce occupational hazards especially through control technology, protective equipment, work practices, and hazard-detection devices.
4. Disseminate scientific findings and appropriate recommendations to all organizations and individuals with the need to know to assist them to act to reduce occupationally related health problems; training and developing personnel for the field are essential elements of this program.
5. Administer these programs in a sense of total commitment to the highest principles of public stewardship.

Thus our strategy to prevent work-related illness and injury is based on the policies of the Department, PHS, and CDC with the awareness of the needs of client agencies; provides a framework in which problems are identified and understood; assesses methods for controlling the causes of problems; and disseminates the results to those capable of acting to protect the worker.



J. Donald Millar, M.D.
Assistant Surgeon General
Director, National Institute for
Occupational Safety and Health

FOREWORD

The National Institute for Occupational Safety and Health's major responsibility is to conduct research necessary to ensure, insofar as possible, that no worker will suffer impaired health and functional capacity or diminished life expectancy as a result of his or her work experience. NIOSH's current responsibilities were established by the following legislative authorities:

1. Occupational Safety and Health Act of 1970 (Public Law 91-596) which created NIOSH in the Department of Health and Human Services as the research agency for occupational safety and health in the Nation's workplaces, and the Occupational Safety and Health Administration in the Department of Labor to establish and enforce related standards.
2. Federal Mine Safety and Health Amendments Act of 1977 (Public Law 95-164) which amended the Federal Coal Mine Health and Safety Act of 1969 (Public Law 91-173), in effect merging the 1969 Act and the Federal Metal and Nonmetallic Mine Safety Act of 1966 (Public Law 89-577). The 1969 Act created the Mine Safety and Health Administration in DOL and gave the Public Health Service authority to develop standards for the mining industry. Under the mandate to PHS, NIOSH conducts coal mine health research, recommends health and safety standards, and ensures availability of medical examinations for underground miners. The major purpose of the 1977 amendments was to direct the Secretary of Health and Human Services and the Secretary of Labor to develop and promulgate improved mandatory health or safety standards to protect the health and safety of the Nation's coal or other miners.
3. Comprehensive Health Planning and Public Health Service Amendment Act of 1966 (Public Law 89-749), Title III, Part A--Research and Investigation, which includes authorization of the Surgeon General to make and enforce such regulations as are necessary to prevent the introduction, transmission, or spread of communicable diseases from foreign countries into the States or possessions, or from one State or possession to another.

NIOSH also has responsibilities established through other legislative authorities:

1. Toxic Substances Control Act of 1976 (Public Law 94-469) whereby NIOSH serves on the Interagency Testing Committee, which recommends chemicals for testing, and on the Interagency Toxic Substances Data Committee, and advises the Environmental Protection Agency regarding epidemiologic studies to be undertaken.

2. Health Professions Educational Assistance Act of 1976 (Public Law 94-484) through which NIOSH provides technical assistance to the Health Resources Administration in DHHS for their occupational health training and education centers.
3. Outer Continental Shelf Lands Act Amendments of 1977 (Public Law 95-372) through which NIOSH, with the Secretary of Commerce and in cooperation with the Secretary of Transportation regarding U.S. Coast Guard operations, conducts studies of underwater diving techniques and equipment suitable for protecting human safety.
4. Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (Public Law 96-510)--the Superfund Act--through which NIOSH, in conjunction with OSHA, EPA, and DOT, is directed to study and modify the National Contingency Plan to provide for the protection of the safety and health of employees involved in response actions. Such actions, by definition, include investigation and cleanup operations at uncontrolled hazardous waste sites, and emergency response to spills, leaks, etc.

This document outlines NIOSH's Program Plan for inhouse and extramural projects for Fiscal Year 1982--October 1, 1981, through September 30, 1982. This plan will serve as a tool for ongoing internal planning and control by the Institute management. To ensure that NIOSH responds promptly and appropriately to emerging problems, modifications will be made in individual projects as necessary.

NIOSH has sustained substantial cuts in resources in FY 1982 and, within those restrictions, special effort will be made to continue to protect the highest-priority Program Areas. The amount of appropriated funds dropped from \$80.4 million in FY 1980 to \$67.8 million in FY 1981, and to \$58.8 million in FY 1982, with the NIOSH training program incurring the most severe reductions. The highest-priority Program Areas for FY 1982 are reproductive effects, surveillance, neurotoxic effects, respirators, control systems, injury and trauma, information dissemination and document development, and stress. The full list of 20 NIOSH Program Areas is displayed in the Keys to Coding, as are the four major components of the program structure--to identify, evaluate, and control occupational safety and health problems, and to disseminate research findings and recommendations.

Continuing grants awarded for FY 1982 have been identified individually, for the first time, in the NIOSH annual Program Plan to make this information available to the document's readers simultaneously with that on the other NIOSH activities.

Emphasis will be placed on continuing efforts to identify the needs of users of NIOSH's research findings. For example, the Program Plan for FY 1982 includes specific research project proposals to meet requests from the Department of Labor's NIOSH Planning Group which identified the research needs of the Occupational Safety and Health Administration, Mining Safety and Health Administration, and Employment Standards Administration. Similarly, continuing efforts will be made to identify needs of other users of NIOSH's programs and products--individual workers, organized labor and management, the general population, other Federal agencies, and State and local governments.

Dissemination of information on NIOSH's research and surveillance findings--as early as and to the broadest extent possible--also will continue to have a high priority to ensure nationwide awareness of hazards experienced by workers in the Nation's workplaces. The general public--an undertapped, potentially highly influential supportive force in efforts to protect the safety and health of the Nation's workers--will be a major target in NIOSH's FY 1982 information dissemination efforts.

We will want to continue to improve our Annual Program Plan in both content and presentation and in usefulness to readers both within and outside the Institute. Your suggestions for change toward improvement would be appreciated. Such suggestions, and any questions regarding this document, should be addressed to Melvin L. Myers, Director, Office of Program Planning and Evaluation, NIOSH, CDC, Building 3, Room 117, 1600 Clifton Road, Atlanta, GA 30333.

KEYS TO CODING

Program Areas (PROG) - Columns 96 and 124

IDENTIFY OCCUPATIONAL SAFETY AND HEALTH PROBLEMS

- B -- Surveillance
- V -- Health Hazard Evaluations

EVALUATE OCCUPATIONAL SAFETY AND HEALTH PROBLEMS

- A -- Reproductive Effects
- C -- Neurotoxic Effects
- F -- Injury/Trauma
- I -- Lung Disorders
- J -- Cutaneous Disorders
- L -- Cardiovascular Disorders
- M -- Cancer
- O -- Stress-Related Disorders
- Q -- Physical Agents

CONTROL OCCUPATIONAL SAFETY AND HEALTH PROBLEMS

- D -- Respirators
- E -- Control Systems
- G -- Other Personal Protective Equipment
- N -- Sampling/Analysis
- U -- Instrument/Methods Development

DISSEMINATE OCCUPATIONAL SAFETY AND HEALTH FINDINGS AND RECOMMENDATIONS

- H -- Information Dissemination/Document Development
- K -- Work Force Development

W - ADMINISTER INSTITUTE PROGRAMS

X - ALL OTHER PROGRAM AREAS

Operation Mechanism (MECH) - Column 98

- a -- Contract Only
- b -- Contract and Inhouse
- c -- Inhouse Only
- d -- Interagency Agreement
- e -- Grant
- f -- Cooperative Agreement
- g -- Other Combinations

Source of Funding (FUND) -- Column 100

- a -- Base Program
- b -- Coal Mining
- c -- Environmental Protection Agency
- d -- Metal and Nonmetal Mining
- e -- National Cancer Institute
- f -- National Occupational Hazards Survey
- y -- Other

Offices/Division and Branches -- Columns 119 and 120

- A - Division of Biomedical and Behavioral Science
 - a - Applied Psychology and Ergonomics
 - c - Experimental Toxicology
 - d - Technical Support
 - e - Physical Agents Effects
- B - Division of Physical Sciences and Engineering
 - a - Engineering Control Technology
 - b - Measurements Research Support
 - c - Methods Research
 - d - Monitoring and Control Research
- C - Division of Respiratory Disease Studies
 - a - Epidemiological Investigations
 - b - Environmental Investigations
 - c - Clinical Investigations
 - d - Laboratory Investigations
 - e - Examination Processing
- D - Division of Surveillance, Hazard Evaluations, and Field Studies
 - a - Hazard Evaluations and Technical Assistance
 - b - Industrywide Studies
 - c - Surveillance
 - d - Support Services
- E - Division of Safety Research
 - a - Safety Surveillance
 - b - Accident and Injury Epidemiology
 - c - Standards and Consultation
 - d - Testing and Certification
- F - Office of Extramural Coordination and Special Projects
 - a - Grants Administration and Review
 - b - Regional Operations
- G - Division of Standards Development and Technology Transfer
 - a - Program Management
 - b - Document Development
 - c - Priorities and Research Analysis
 - d - Technical Information
- H - Division of Training and Manpower Development
 - a - Direct Training
 - b - Curriculum Development
 - c - Educational Resource Development
- I - Office of Administrative and Management Services
 - a - Administrative Services
 - b - Financial Management
 - c - Management Systems
 - d - Procurement and Grants Management
- J - Office of the Director
- K - Office of Program Planning and Evaluation
 - a - Planning and Program Development
 - b - Evaluation and Control
 - c - Policy Analysis

Research Areas

Primary, Col. 121; Secondary, Col. 122; Tertiary, Col. 123

N = NIOSH Planning Group in the Department of Labor

EXPOSURE-SPECIFIC STUDIES

- a - Radiation
- d - Biohazards
- e - Pesticides
- f - Heat, Cold, Noise,
Vibrations, and Pressure
- g - Fibers
- h - Solvents
- i - Energy
- j - Cotton Dust
- k - Asbestos
- m - Coal Dust
- n - Silica
- p - Lead
- q - Arsenic
- r - Zinc
- s - Falls from Elevations
- t - Caught In, Under, or Between
- u - Hazardous Wastes
- y - Other

NIOSH
Summary of Resources by Program Goals
Fiscal year 1982
(funds are in thousands of dollars)

	<u>Person Years</u>	<u>Non-Personnel Funds</u>	<u>Total Funds*</u>
Identify Occupational Safety and Health Problems	229.4	6803.2	12958.4
Evaluate Occupational Safety and Health Problems	203.0	11451.6	16982.1
Control Occupational Safety and Health Problems	127.8	4577.4	8202.5
Disseminate Occupational Safety and Health Findings and Recommendations	94.7	10425.5	12874.4
Administer Institute Programs	231.9	8705.3	14767.0
All Other Program Areas	<u>44.5</u>	<u>4699.3</u>	<u>5771.0</u>
TOTALS	931.3	\$46662.3	\$71555.4

*The total funds for planning purposes include funds appropriated by the Congress, funds transferred from other agencies for research, reimbursements for services, and overallocation of funds in anticipation of cancellation of projects during the year.

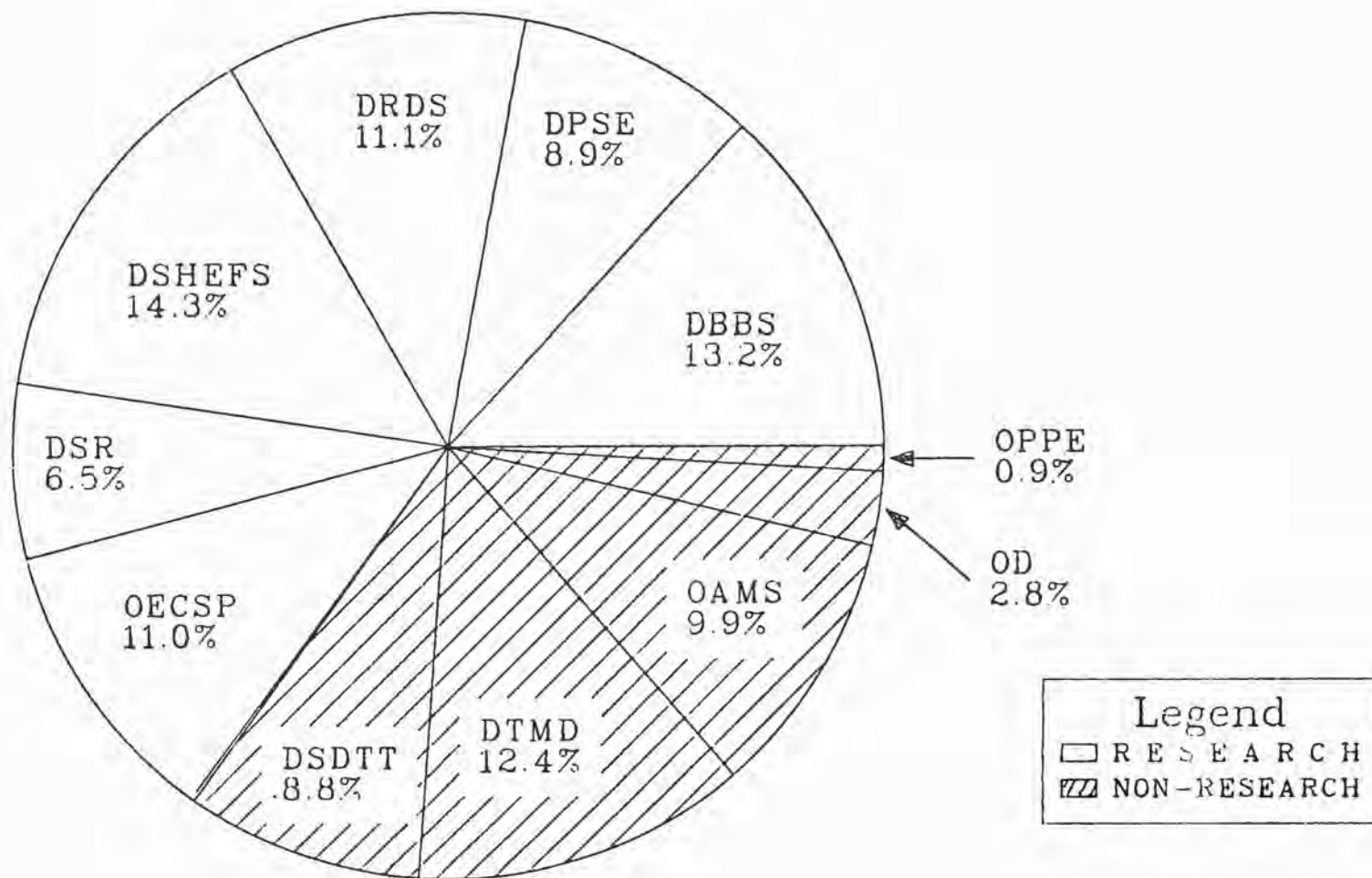
NIOSH
Summary of Resources by Divisions
Fiscal Year 1982
(funds are in thousands of dollars)

<u>Research Divisions</u>	<u>Person Years</u>	<u>Non-Personnel Funds</u>	<u>Total Funds*</u>
Division of Biomedical and Behavioral Science	108.8	6229.5	9191.8
Division of Physical Sciences and Engineering	98.2	3426.2	6233.2
Division of Respiratory Disease Studies	133.3	3962.4	7665.2
Division of Surveillance, Hazard Evaluations, and Field Studies	194.5	5082.0	9989.7
Division of Safety Research	72.7	2514.9	4538.9
Office of Extramural Coordination and Special Projects	56.0	6040.0	7684.0
<u>Non-Research Divisions</u>			
Division of Standards Development and Technology Transfer	84.8	3889.8	6136.8
Division of Training and Manpower Development	31.7	7694.0	8487.3
Office of Administrative and Management Services	92.5	6717.3	9050.4
Office of the Director	41.8	880.0	1924.8
Office of Program Planning and Evaluation	<u>17.0</u>	<u>226.2</u>	<u>653.3</u>
TOTALS	931.3	\$46662.3	\$71555.4

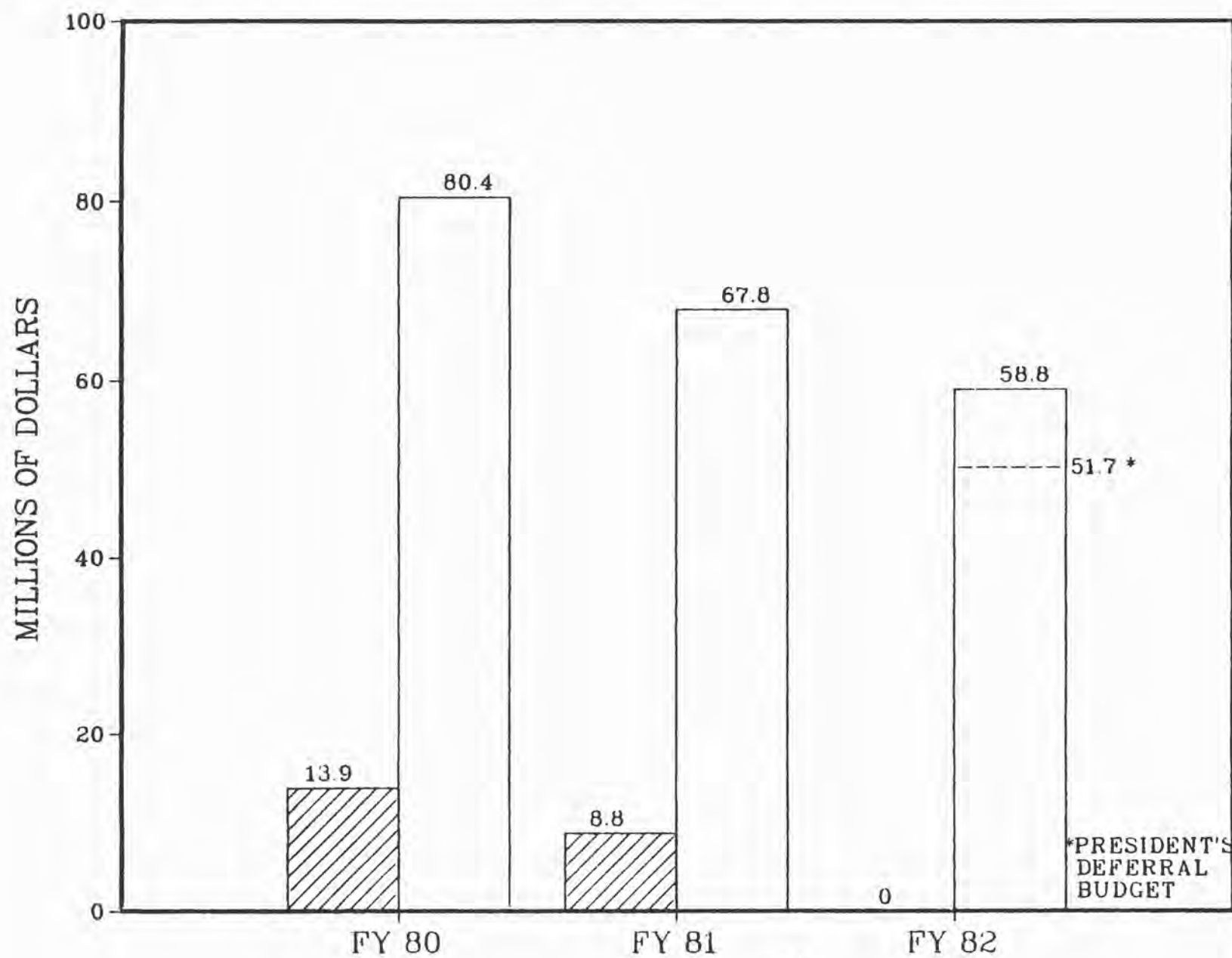
*The total funds for planning purposes include funds appropriated by the Congress, funds transferred from other agencies for research, reimbursements for services, and overallocation of funds in anticipation of cancellation of projects during the year.

SUMMARY OF RESOURCES BY DIVISION FOR FY 1982

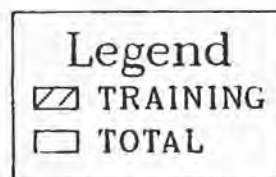
TOTAL FUNDS



NIOSH APPROPRIATIONS



*PRESIDENT'S
DEFERRAL
BUDGET



N I O S H P R O G R A M G O A L S A N D P R O G R A M A R E A S

IDENTIFY OCCUPATIONAL SAFETY AND HEALTH PROBLEMS

NIOSH's goal, to identify occupational safety and health problems, is the foundation of the NIOSH policy to prevent occupationally induced illnesses, injuries, and deaths. Under this goal NIOSH defines the state of occupational safety and health through the disciplines of medicine, industrial hygiene and safety, and statistics. NIOSH investigators derive priorities for research and public health action and measure progress in preventing impairments. Facts are generated from national safety and health data bases and from requests by workers and employers for health hazard evaluations. Scientific hypotheses are generated from these facts. The following long-range objectives for the Nation are considered under this goal:

1. By 1985, an ongoing occupational health hazard/illness/injury coding system and a survey and surveillance capability should be developed, including identification of workplace hazards and related health effects such as cancer, coronary heart disease, and reproductive effects. This system also should include adequate measurements of the severity of work-related disabling injuries.
2. By 1985, at least one question about lifetime work history and known exposures to hazardous substances should be added to all appropriate existing health data reporting systems (e.g., cancer registries, hospital discharge abstracts, and death certificates).
3. By 1990, the number of health hazard evaluations being performed annually should increase to 1,500. (In 1979, NIOSH performed about 150 health hazard evaluations.)

And the following FY 1982 objectives requested by the Department of Labor's NIOSH Planning Group also are considered under this goal:

First-Order Priority

1. Institute a surveillance program to provide the Mine Safety and Health Administration with the identity of and information on toxic substances and harmful physical agents present in mines.

2. Identify for the Employment Standards Administration three key occupations and industries (e.g., construction, eating and drinking places, laundries, hospitals) that employ significant numbers of youth and in which dangerous exposures (e.g., chemicals, radiation) are likely to occur.

Second-Order Priority

3. Review and evaluate with ESA the existing and proposed medical records system used by workers' compensation programs.

SURVEILLANCE

NIOSH has responsibility for developing national surveillance systems that identify workplace hazards and work-related injuries, disease, disability, or death.

To identify hazards in general industry, a second National Occupational Hazard Survey (NOHS-II) was initiated in 1980. For a period of about 2 years, specially trained surveyors will visit a probability sample of about 5,000 U.S. workplaces. They will record the potential exposures to chemical and physical agents that they observe. A similar mining environmental surveillance program is being developed. The results from NOHS-II and the mining hazard surveillance program will provide decision makers with an updated profile of potential workplace hazards seen in a cross section of U.S. industries, mines, mills, and occupations.

To obtain information about work-related injury and illness effects, national data sets from other agencies are being adapted by NIOSH for use in occupational health and injury surveillance. These sources include the Bureau of Labor Statistics data bases, the National Center for Health Statistics Health Interview Survey, the Social Security Administration's Continuous Disability History Sample, State workers' compensation programs, and State vital statistics record systems. For example, (1) four surveillance cooperative agreements (Maine, New York, Rhode Island, and Utah) were funded; (2) NCHS, the Bureau of Census, and NIOSH are cooperating in the development and adaptation of vital statistics records for occupational health studies; (3) eight States pilot-tested a Bureau of Census-designed occupation/industry coding-training module that will be offered to all States during FY 1982; (4) worker compensation data are being programed for easy analysis of injury statistics; (5) hospital records on injured workers who obtained emergency treatment are being obtained and analyzed in conjunction with the Consumer Products Safety Commission's National Electronic Injury Surveillance System; and (6) injury incidence rates based on 1980 census figures are being computed to help pinpoint high-risk occupations.

Division of Respiratory Disease Studies

The Division's environmental surveillance efforts are directed toward fulfillment of the mining surveillance mandate given the Institute in the Federal Mine Safety and Health Act of 1977 (Public Law 95-164). The Act specifically directs the Secretary to determine, for each toxic material or harmful physical agent that is used or found in a mine, the potential toxicity of the material for the concentrations in which it is used or found. Responsibility for this aspect of the surveillance program was given to DRDS, which is conducting the National Occupational Hazards Survey of Mining.

The NOHSM will (1) inventory substances brought into the mines and used in extraction and processing of ores, (2) sample materials that naturally occur in the mines, (3) collect information about occupational health surveillance programs available to miners, and (4) collect other information that describes the mines covered by the survey. After obtaining this information NIOSH will determine the toxicity of the substances and physical agents so found, and project the exposures within the entire mining industry.

Accomplishments to date include the development of the sampling protocol, an appropriate questionnaire, and a training program for surveyors, and the partial completion of the survey projection programs. The sample of survey sites and the projection flow chart have now been developed by a NIOSH contractor. NIOSH staff will supply a computer code for the projection of national statistics. Future work includes submission of the survey package to the Office of Management and Budget for Federal Reports Act clearance, determination of the proper implementation method for the survey (i.e., inhouse personnel, contracted work, or interagency agreement), and the actual performance of the survey. The actual survey work is scheduled to be initiated when the general industry survey field work has been accomplished by DSHEFS. Institute resources are not sufficient to accomplish two such field-intensive studies at the same time.

During FY 1982, DRDS will:

1. Continue preparation and testing of protocol for NOHSM, based upon reduced resource allocations. Investigations will test various methods of administering the questionnaire, inventorying substances, and obtaining environmental samples.
2. Conduct targeted environmental investigations of potential health hazards in mining as suggested by MSHA and BOM, and/or reports in the literature.
3. Consolidate environmental data available from other sources.
4. Identify high-risk cohorts suitable for health surveillance.

Division of Surveillance, Hazard Evaluations, and Field Studies

The DSHEFS surveillance program includes the collection of data on potential occupational health hazards and illnesses, the analysis of this information, and the dissemination of these results to

decision makers. To identify workplace hazards, a NIOSH data base, NOHS-II, has been developed. For illness-effects surveillance, existing national health and demographic data bases have been adapted to meet DSHEFS' needs. A summary of the FY 1981 activities and their continuance into FY 1982 is as follows:

1. DSHEFS initiated the field phase of NOHS-II on November 3, 1980. By the end of FY 1981 approximately 1,500 worksites employing nearly 500,000 workers will have been surveyed, with a 98 percent response rate. The goal is to complete the field phase of NOHS-II in FY 1983, and to begin the analytical phase of this survey. In part this analysis will involve the identification and classification of chemical ingredients found in approximately 90,000 trade-name products used in U.S. workplaces. Without this trade-name product ingredient resolution, NIOSH decision makers will not have estimates of the number of workers potentially exposed to specified hazards found in the wide array of U.S. industries and occupations.
2. The development of an illness-effects surveillance base as derived from national, State, and other health data systems is continuing and involves:
 - o The renewal and expansion of the scope of interagency agreements with NCHS, SSA, and BLS.
 - o The expansion of the program of surveillance cooperative agreements between NIOSH and States (SCANS) from four to at least eight States by 1983.
 - o Defining a list of International Classification of Disease rubrics that describe occupationally related Sentinel Health Events.
 - o Developing methods for making annual estimates of the number of occupationally related deaths and diseases.
 - o Adapting computer-generated mapping techniques for displaying potential workplace hazards, illness effects, and associations between hazards and illnesses.
 - o Completing six Surveillance Reports based on disease patterns observed for workers in selected industries (e.g., accidents among loggers).

3. In order to disseminate the results of surveillance activities more effectively, a new series of NIOSH publications called Surveillance Reports (as mentioned above) will be emphasized. Studies from DSR and DSHEFS will appear in this series and, with the assistance of DSDTT, distribution will be targetted to the appropriate decision makers in government, industry, labor, and academia.

Division of Safety Research

DSR's efforts in the surveillance program area are organized primarily in the Safety Surveillance Branch, but also include research projects aimed at assessment of exposure to risks in various work settings.

Surveillance in general in DSR is intended to assess the numbers, rates, and impacts of occupational injuries and fatalities in the Nation. This is done through access to established injury-reporting systems and through development of specific data sources for special project needs. The information obtained is used for identifying injury patterns, high-risk occupations, industries, and operations; for setting research priorities, and defining precise areas for further research; for supporting recommendations for changing safety standards; and for monitoring changes to evaluate specific preventive efforts. The data sources used for these efforts include:

1. Workers' compensation data from over 30 States for 1977 through 1979 provide basic frequency and severity measures and injury characteristics on 4.5 million cases. Computer access to these data makes possible morbidity studies and identification of problems. Surveillance reports based on these files will be produced in FY 1982.
2. DSR collaborates with BLS and OSHA in conducting Work Injury Report Surveys, which are special-topic mail surveys of injured workers. Data from these surveys represent an important step in providing detailed case series for indepth analysis of problems and formulation of specific hypotheses.
3. In collaboration with the Consumer Product Safety Commission, DSR receives daily reports of work-related injuries that are treated at hospital emergency rooms. A sample of such hospitals participate in CPSC's NEISS which permits national estimates of emergency-room-treated job injuries. Since this system provides daily reports, it is being used to detect sudden changes in accident trends, and as a source of data for followup investigations.

4. In addition, other data sources are being considered for future projects: Death certificate files from State agencies, OSHA fatality investigation abstracts, occupational injury incidence rates using workers' compensation and census employment data, and special surveys of workers exposed to selected hazards (e.g., chemicals requiring protective clothing). Insurance industry data also will be explored for their surveillance potential.

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY				PLANNED COMPLETION				P M F R E U O C N G H D		RESOURCES	
	I C		1Q	2Q	3Q	4Q			PY		NPF	TF
											\$1000	\$1000
*****SURVEILLANCE*****												
DIVISION OF RESPIRATORY DISEASE STUDIES												
1. Health Effects Target Surveillance (Costello J 304-599-7476)(VKL-aOp-184)(1.5/25.0/70.0) (1.0/15.0/149.0)(100/VCa-Bmm-184)	81	84						B b d				
.1 Contact state health departments and other agencies to locate existing data sources (1Q81)											CamnyB	14
.2 Investigate record systems to determine suitability for research purposes (2Q81)											CamnyB	15
.3 Develop preliminary protocols for pilot studies in target areas (2Q81)											CamnyB	16
.4 Discuss pilot epidemiological studies with appropriate personnel in states identifies as fruitful sources of data (initially Vermont and North Carolina) (3Q81)											CamnyB	17
.5 Develop detailed study protocols with assistance from state personnel (4Q81)											CamnyB	18
.6 Complete data collection in Vermont and North Carolina											CamnyB	19
.7 Analyze data											CamnyB	20
.8 Make recommendations for full-scale research projects, as appropriate											CamnyB	21
.9 Complete final report on pilot studies (3Q83)											CamnyB	22
.10 Continue with investigation of newly identified target sources (3,4Q83)											CamnyB	23
2. Epidemiological/Surveillance Methods Study (Attfield M 304-599-7501)(VKL-IDX-197)(100/VCa-Byy-197)	81	82						B c b			CamnyB	24
.1 Complete and report comparison of various computer programs designed for mortality analysis											CamnyB	25
.2 Second interim report on industrial hygiene study											CamnyB	26
.3 Complete final report and submit abstract to Director, NIOSH, with copy of report and abstract to DTS											CamnyB	27
											CamnyB	28
											CamnyB	29
											CamnyB	30
											CamnyB	31
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											CamnyB	42
											CamnyB	43
											CamnyB	44
											CamnyB	45
											CamnyB	46
											CamnyB	47

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY				PLANNED COMPLETION				P M F R E U O C N			RESOURCES	
	I C		1Q	2Q	3Q	4Q	G	H	D	PY		NPF	TF
												\$1000	\$1000
3. Analysis of Receiving Center Data (Althouse R 304-599-7501) (VKL-aDp-178)(100/VCa-Bmn-178)	80	82							B	c	b		
.1 Complete file, process data, technical report Round 3 (1Q81)												CamniB	50
.2 Select individuals from high/low dust environments. Randomize films, send out for reading			o									CamniB	51
.3 Build computer file as x-ray data is returned				o								CamniB	52
.4 Dose-response analysis for mines and miners complete					o							CamniB	53
.5 General correlations based on average dust levels per mine with prevalence data for all mines						o						CamniB	54
.6 Complete analysis							o					CamniB	55
.7 Submit final report and abstract to Director, NIOSH and copy of report and abstract to DTS								o				CamniB	56
								o				CamniB	57
												CamniB	58
												CamniB	59
												CamniB	60
												CamniB	61
												CamniB	62
												CamniB	63
												CamniB	64
4. Mining Environmental Data Analysis Library (Dieffenbach A 304 599-7361) (100/VCb-Bty-167)	82	C							B	c	d		
.1 Purchase terminal			o									CbtyyB	67
.2 Program NIOSH computer to handle MSHA Metal/Non-metal Data Tapes												CbtyyB	68
.a Use MSHA computer system for retrieval until NIOSH system is fully operational (No. indicates expected retrievals)(cumulative)			5	10	15	20						CbtyyB	69
.b Achieve retrieval of information from NIOSH computer system				o								CbtyyB	70
.c Use NIOSH computer system for data analysis							o					CbtyyB	71
.3 Program NIOSH Computer to Handle MSHA Coal Data Tapes			o									CbtyyB	72
.a Obtain tapes				o								CbtyyB	73
.b Start programming for data retrieval												CbtyyB	74
.c Achieve retrieval and analysis (FY83)												CbtyyB	75
.4 Program NIOSH Computer to Handle State Environmental Data												CbtyyB	76
.a Code pyrophyllite and kaolin data						o						CbtyyB	77
.b Achieve retrieval and analysis of pyrophyllite and kaolin data							o					CbtyyB	78
.c Explore other data sources			1	2	3							CbtyyB	79
												CbtyyB	80
												CbtyyB	81
												CbtyyB	82
												CbtyyB	83
												CbtyyB	84
												CbtyyB	85
												CbtyyB	86
												CbtyyB	87
												CbtyyB	88
												CbtyyB	89

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY				PLANNED COMPLETION				P M F R E U O C N G H D			RESOURCES	
	I	C	1Q	2Q	3Q	4Q	PY	NPF	TF				
								\$1000	\$1000				
5. Environmental Surveillance of Third Round NSCWP (Wheeler W 304-599-7421) (VKP-apD-158)(0.6/10.0/33.0) (100/VCb-Bmi-158)	80	83										CbminB 92	
												CbminB 93	
												CbminB 94	
												CbminB 95	
.1 Complete field survey (Cumulative)			3	4	5	7						CbminB 96	
.2 Complete mid-survey analysis of existing data, and submit interim report to Director, DRDS				2								CbminB 97	
.3 Complete individual mine survey reports (Cumulative)				4	5							CbminB 98	
.4 Complete individual mine survey reports (1Q83)												CbminB 99	
.5 Complete computer coding of all study data (2Q83)												CbminB 100	
.6 Complete draft final report and submit for review (3Q83)												CbminB 101	
.7 Complete final report and abstract to Director, NIOSH, with copy of report and abstract to DTS (4Q83)												CbminB 102	
												CbminB 103	
												CbminB 104	
												CbminB 105	

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	C	PLANNED COMPLETION				P M F R E U O C N G H D	PY	RESOURCES	
			1Q	2Q	3Q	4Q			NPF	TF
									\$1000	\$1000
6. Target Mining Environmental Surveillance (Cocalis J 304-599-7421)(VKP-apD-155)(100/VCb-Bng-155)	80	C					B b d			
.1 Preliminary Investigations Assigned									CbngfB	108
.a Silicosis in Rock Drillers									CbngfB	109
.b Vermiculite									CbngfB	110
.c Vanadium									CbngfB	111
.d Non-commercial fibers - Phase II									CbngfB	112
.e NOHS-M Investigation									CbngfB	113
.f Metal species in ore (metal to be identified)									CbngfB	114
.g Dynamites									CbngfB	115
.h Heat Stress									CbngfB	116
.i Urethanes in mining									CbngfB	117
.j Uranium ore beneficiation									CbngfB	118
.2 Preliminary Investigation Reports Received by Deputy Director, DRDS									CbngfB	119
.a-e			5						CbngfB	120
.f-i				4					CbngfB	121
.j				1					CbngfB	122
.3 In-house Final Reports to Deputy Director, DRDS for External Review									CbngfB	123
.z Zeolite/erionite (FY81 origin)			1						CbngfB	124
.a-e					5				CbngfB	125
.f-i					4				CbngfB	126
.j						1			CbngfB	127
.4 Completion and Dissemination of In-house Final Reports with External Comments Considered									CbngfB	128
.z FY81 origin reports			10						CbngfB	129
.a-e						5			CbngfB	130
.f-j (FY83)									CbngfB	131
.j							1		CbngfB	132
.5 Contractor Reports Received									CbngfB	133
.a Phase I			1						CbngfB	134
.b Phase II			4						CbngfB	135
.c Phase III						5			CbngfB	136
7. NCW Autopsy Study Service (Martin M. 304-599-7301) (VKQ-apD-233)(100/VCe-Bmm-233)	71	C					B c b		CbngfB	137
.1 Process acceptable autopsies for payment within 45 days (cumulative)									CbngfB	138
.2 Present exhibit at ASCP/CAP meeting			()	()	()	()			CbngfB	139
.3 Present program to Funeral Directors in high coal states									CbngfB	140
.4 Contact study participants for input on possible improvements in program									CbngfB	141
									CbngfB	142
									CbngfB	143
									CbngfB	144
									CbngfB	145
									CbngfB	146
									CbngfB	147
									CbngfB	148
									CbngfB	149
									CbngfB	150
									CbngfB	151
									CbngfB	152
									CbngfB	153
									CbngfB	154

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I C	PLANNED 1Q	COMPLETION 2Q	3Q	4Q	P M F	RE U	RESOURCES		
						D C N	G H D	PY	NPF	TF
									\$1000	\$1000
8. Receiving Center (Martin M 304-599-7301) (VKQ-apD-235)(100/VCC-Bmm-235)	70	C					B c b	CemmyB 157 CemmyB 158 CemmyB 159 CemmyB 160 CemmyB 161 CemmyB 162 CemmyB 163 CemmyB 164 CemmyB 165 CemmyB 166 CemmyB 167 CemmyB 168 CemmyB 169 CemmyB 170 CemmyB 171		
.1 Review, approve operators' plans; make arrangements for examination of miners not covered by plans			o	o	o	o		D a 173		
.2 Process examinations of coal miners			o	o	o	o		D B 174		
.3 Certify x-ray facilities			o	o	o	o		DcyyyB 176		
.4 Certify physicians			o	o	o	o		DcyyyB 177		
.5 Provide coding, tracking, microfilming, and filing support to other branches			o	o	o	o		DcyyyB 178		
.6 Provide interpretations by certified "B" readers to support research projects, health hazard investigations, and reading trials conducted by other branches			o	o	o	o		DcyyyB 179		
.7 Implement and maintain "B" reader Quality Assurance Program			o					DcyyyB 180		
DIVISION OF SURVEILLANCE, HAZARD EVALUATIONS AND FIELD STUDIES										
9. Access to NOHS Data Base - Profile Development (NCI) (Joe Seta 513-684-2706) (1.0/100.0/125.0)(VMO-Byy-662)	79	C					B c e	DcyyyB 181		
A. NOHS-I requests processed through 3Q81 - 131			40	80	120	160		DcyyyB 182		
B. Process requests for NOHS-I information.								DcyyyB 183		
C. Develop information profiles on hazards, industries and occupations.			500	1k	1.5k	2k		DcyyyB 184		
D. Publish a base-wide summary of exposure estimates.			0	0	0	0		DcyyyB 185		
								DcyyyB 186		
								DcyyyB 187		
								DcyyyB 188		
10. Development of Trade Name Ingredient Data Base (NCI) (Randy Young 513-684-2706) (2.0/140.0/200.0)(100/VMO-Byy-663)	78	C					B c e	DcyyyB 189		
A. Receive final report from contractor on TNIC modifications (1Q81).			o					DcyyyB 190		
B. Initiate ingredient clarification programming.				o				DcyyyB 191		
C. Procure system hardware for clarification programming.					o			DcyyyB 192		
D. Submit OMB package to OPPE.						o		DcyyyB 193		
E. Obtain OMB approval.							o	DcyyyB 194		
F. Pending OMB approval, develop future milestones.								DcyyyB 195		
								DcyyyB 196		
								DcyyyB 197		
								DcyyyB 198		
								DcyyyB 199		
								DcyyyB 200		
								DcyyyB 201		
								DcyyyB 202		

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY				P M F				RESOURCES	
	PLANNED COMPLETION				R E U				NPF TF	
	I	C	1Q	2Q	3Q	4Q	O C N	G H D	PY	\$1000 \$1000
11. Utilization of Full File for Survey/Sampling Decisions (NCI) (Dave Pedersen 513-684-2706) (0.5/155.0/170.0)(100/VMO-Byy-665)	78	C					B b e			
A. Requests serviced through 3Q81 - 95.										DcyyyB 205
										DcyyyB 206
										DcyyyB 207
										DcyyyB 208
										DcyyyB 209
										DcyyyB 210
B. Service requests for industry profiles or geographic listings of industry activity.			20	40	60	80				DcyyyB 211
				o						DcyyyB 212
C. Submit RFC to OAMS for purchase of full file (210-82-)						o				DcyyyB 213
D. Award contract.										DcyyyB 214
										DcyyyB 215
12. NOHS-2 (Dave Sundin 513-684-2706) (10.0/300.0/500.0)(100/VMO-Byy-620)	80	C					B b a			DcyyyB 218
A. Facilities surveyed through 3Q81 - 1000.										DcyyyB 219
										DcyyyB 220
										DcyyyB 221
										DcyyyB 222
B. Complete facility surveys.			750	1500	2250	3000				DcyyyB 223
C. Complete survey manual (Vol. I)				o						DcyyyB 224
D. Complete sample design report (Vol. II)					o					DcyyyB 225
E. Complete data editing and data base development report (Vol. III)						o				DcyyyB 226
F. Develop outlines for special topic reports.						o				DcyyyB 227
										DcyyyB 228
										DcyyyB 229
13. Registry-based Occupational Cancer Surveillance - Phase I (Judy Lisson 513-684-3284) (100/VMO-Byy-617)	78	82					B b a			DcyyyB 232
A. Complete study protocol (3Q78).										DcyyyB 233
B. Award contract (1Q79).										DcyyyB 234
C. Obtain OMB clearance (2Q80).										DcyyyB 235
D. Complete case control identification (3Q81).										DcyyyB 236
E. Complete preliminary data analyses.			o							DcyyyB 237
F. Complete draft final report.				o						DcyyyB 238
G. Receive final report from contractor.					o					DcyyyB 239
H. Complete final report and transmit abstract to Director, NIOSH and copy to DTS.						o				DcyyyB 240
										DcyyyB 241
										DcyyyB 242
										DcyyyB 243
										DcyyyB 244
										DcyyyB 245

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY				PLANNED COMPLETION				P M F			RESOURCES	
	I	C	1Q	2Q	3Q	4Q	G	H	D	PY	NPF	TF	
14. Lead Surveillance (Joyce Salg 513-684-3284) (0.5/45.0/60.0)(100/VMQ-Bpp-616)	81	83					B	g	a			DcpppB	246
A. Complete OMB package (2Q81).												DcpppB	249
B. Obtain OMB clearance through BLS.												DcpppB	250
C. Initiate survey.												DcpppB	251
D. Complete survey.												DcpppB	252
E. Complete data processing and editing.												DcpppB	253
F. Complete preliminary analysis, prepare final report and/or additional milestones as necessary (4Q83).												DcpppB	254
												DcpppB	255
												DcpppB	256
												DcpppB	257
												DcpppB	258
15. Registration of Disease and Exposure Cohorts (Ed Dacey 513-684-3284) (0.2/20.0/25.0)(100/VMQ-Byy-625)	79	C					B	b	a			DcyyyB	261
A. Award Beryllium Case Registry Renewal-210-79-0067 (3Q81).												DcyyyB	262
B. Edit and update existing files.												DcyyyB	263
C. Submit RFC to OAMS for BCR contract (210-82)												DcyyyB	264
D. Complete draft report on BCR file update.												DcyyyB	265
E. Award BCR contract.												DcyyyB	266
F. Complete update report on file status of all cohorts and submit recommendations for future activities.												DcyyyB	267
												DcyyyB	268
												DcyyyB	269
												DcyyyB	270
												DcyyyB	271
												DcyyyB	272
16. State Mortality Module (Bill Crouse 513-684-3284) (5.0/250.0/390.0)(100/VMQ-Byy-624)	80	C					B	g	a			DcyyyB	275
A. Award cooperative agreements (4Q80).												DcyyyB	276
B. Receive program descriptions on final protocol from the four grantees (2Q81).												DcyyyB	277
C. Submit RFC or request to renew cooperative agreements.												DcyyyB	278
D. Complete site visit to each existing grantee.												DcyyyB	279
E. Obtain data tapes from grantees.												DcyyyB	280
F. Award continuation contract on grant.												DcyyyB	281
												DcyyyB	282
												DcyyyB	283
												DcyyyB	284
												DcyyyB	285
												DcyyyB	286
												DcyyyB	287
												DcyyyB	288
												DcyyyB	289
FY'81 Surveillance Branch reports that were not completed will be included here in the 1st quarter, FY'82 program review.													

FY'81 Surveillance Branch reports that were not completed will be included here in the 1st quarter, FY'82 program review.

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY				PLANNED COMPLETION				P M F R E U D C N G H D				RESOURCES	
	I C		1Q	2Q	3Q	4Q							NPF	TF
													PY	\$1000 \$1000
17. Disability Surveillance of Occupation and Industry (Tom Fischbach 513-684-3284) (2.4/35.0/100.0)(100/VMO-Byy-629)	81	C						B	g	a			DcyyyB	292
A. Complete development of NIOSH - SSA IA (2Q81).													DcyyyB	293
B. Submit renewal of IA (81-50) to OPPE.													DcyyyB	294
C. Award IA.													DcyyyB	295
D. Complete reports on strategy and procedures to identify occupation/industries for intensive study.													DcyyyB	296
E. Complete Report on Occupational Characteristics of Disabled Workers, 1975-1976 and submit abstract to Director, NIOSH and copy to DTS.													DcyyyB	297
F. Complete Report on Estimates of Occupation-Related Disability, 1969-1976 and submit abstract to Director, NIOSH and copy to DTS.													DcyyyB	298
													DcyyyB	299
													DcyyyB	300
													DcyyyB	301
													DcyyyB	302
													DcyyyB	303
													DcyyyB	304
													DcyyyB	305
													DcyyyB	306
													DcyyyB	307
18. Mortality Surveillance of Occupation and Industry (Bill Crouse 513-684-3284) (3.5/410.0/500.0)(100/VMO-Byy-633)	81	C						B	g	a			DcyyyB	310
A. Complete Bureau of Census/NCHS IA (2Q81).													DcyyyB	311
B. Submit renewal for IA with Census (81-42) and NCHS (81-07)													DcyyyB	312
C. Award IA's.													DcyyyB	313
D. Complete review of pre-test.													DcyyyB	314
E. Complete evaluation of implementation strategies.													DcyyyB	315
F. Initiate coding of industry and occupations from death certificates by the states (2Q83).													DcyyyB	316
													DcyyyB	317
													DcyyyB	318
													DcyyyB	319
													DcyyyB	320
													DcyyyB	321
19. Occupational Mortality In Washington State (Ed Dacey 513-684-3284) (100/VMO-Byy-642)	81	82						B	b	a			DcyyyB	324
A. Complete coding and editing of data (2Q81).													DcyyyB	325
B. Receive sample data file from contractor.													DcyyyB	326
C. Receive final report from contractor.													DcyyyB	327
D. Complete final report and submit abstract to Director, NIOSH and copy to DTS.													DcyyyB	328
													DcyyyB	329
													DcyyyB	330
													DcyyyB	331
													DcyyyB	332
													DcyyyB	333

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	P M F				R E U				RESOURCES	
	FY				O C N				NPF	TF
	I	C	1Q	2Q	3Q	4Q	G	H	D	PY \$1000 \$1000
DIVISION OF SAFETY RESEARCH										
20. Industrial Change Surveillance (Gustin 923-7576)	81	82					B	c	a	
(VLB-abN-816)(100/VEa-BNy-816)										
.1 Identify data sources for potential analysis (1Q81)										E B 336
.2 Analyze and evaluate data sources for their usefulness in defining problems (3Q81).										E B 337
.3 Prepare plans for using data and analyses in injury surveillance system (3Q81)										EaNyyB 338
.4 Evaluate each source for injury rate predictive value (4Q81)										EaNyyB 339
.5 Prepare interim planning report to Director, DSR, with recommendations for Division programs (4Q81)										EaNyyB 340
										EaNyyB 341
										EaNyyB 342
										EaNyyB 343
										EaNyyB 344
										EaNyyB 345
										EaNyyB 346
										EaNyyB 347
										EaNyyB 348
.6 Test five data sources against NEISS and other surveillance data for statistical associations			1	3	4	5				EaNyyB 349
.7 Prepare project evaluation report for Director, DSR										EaNyyB 350
.8 Submit article on results for publication in Journal										EaNyyB 351
										EaNyyB 352
										EaNyyB 353
										EaNyyB 354

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	C	PLANNED COMPLETION				P M F R E U O C N G H D			RESOURCES	
			1Q	2Q	3Q	4Q				NPF	TF
										\$1000	\$1000
21. General Surveillance and Analysis (Gustin 923-7576) (VLB-abN-806)(1.0/80.0/110.0)(1.00/VEa-BNy-806)	77	C					B	c	a		
.1 BLS Supplementary Data Tapes										EaNyyB	357
a. Report on status to Director, DSR			o	o	o	o				EaNyyB	358
b. Submit annual tables by program areas				o						EaNyyB	359
.2 FRASE Data Base										EaNyyB	360
a. Report to Director, DSR, on status				o		o				EaNyyB	361
b. Update data base with epi project reports					o					EaNyyB	362
.3 Milwaukee Industrial Clinic Back Injury Data										EaNyyB	363
a. Prepare purchase order (3Q81)										EaNyyB	364
b. Receive evaluation of data elements			o							EaNyyB	365
c. Submit report to Director, DSR			o							EaNyyB	366
.4 High Risk Injury Pattern Analysis										EaNyyB	367
a. Develop & approve calculation methods			o							EaNyyB	368
b. Complete tables & analysis				o						EaNyyB	369
c. Submit report to Director, DSR						o				EaNyyB	370
.5 Accident Investigation Reports Analysis										EaNyyB	371
a. Prepare purchase order (2Q81)										EaNyyB	372
b. Receive and review draft report						o				EaNyyB	373
c. Receive final report, copy to Director, DSR						o				EaNyyB	374
.6 Punch Press Injury Investigation Data										EaNyyB	375
a. Prepare purchase order (2Q81)										EaNyyB	376
b. Receive and review draft report			o							EaNyyB	377
c. Receive final report, copy to Director, DSR				o						EaNyyB	378
.7 Offshore Oil & Gas Well Drilling										EaNyyB	379
a. Submit strategy plan to Branch Chief (2Q81)										EaNyyB	380
b. Attend 1 ADC Safety Congress (3Q81)										EaNyyB	381
c. Conduct orientation for DSR personnel (3Q81)										EaNyyB	382
d. Submit job description/task analysis for offshore oil workers to Branch Chief			o							EaNyyB	383
e. Complete analysis of safety/health data						o				EaNyyB	384
f. Submit report and abstract to Director, DSR (1Q83)										EaNyyB	385
.8 Feasibility of establishing new National Data System in conjunction with existing mechanism										EaNyyB	386
a. Issue sources sought for development					o					EaNyyB	387
b. Evaluate & report to Director, DSR, on potential sources						o				EaNyyB	388
										EaNyyB	389
										EaNyyB	390
										EaNyyB	391
										EaNyyB	392
										EaNyyB	393

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY				P M F				R E U		O C N		RESOURCES	
	PLANNED COMPLETION				O C N				NPF		TF		\$1000	
	I	C	1Q	2Q	3Q	4Q	G	H	D	PY				
DIVISION OF STANDARDS DEVELOPMENT AND TECHNOLOGY TRANSFER														
22. Priorities and Research Analysis (D. West-513/684-8302) (VII-pyy-743,745,746,736,737,738,739 & 087)(100/VII-Byy-087)	70	C					B	g	a				G B	396
													G B	397
.1 Recruit personnel													GcyyyB	398
.2 Current Awareness													GcyyyB	399
a. Data input and system improvement													GcyyyB	400
b. Interagency Agreement-Incremental Funding (TIRC-50k)													GcyyyB	401
.3 Priorities													GcyyyB	402
a. Cycle for planning FY83													GcyyyB	403
.01 Present contract for profiles expires; 40 profiles received													GcyyyB	404
.02 Analyze profiles for future action; develop preliminary recommendations for document and research priorities (lists and PRSs)													GcyyyB	405
.03 Submit draft lists & PRSs to Division													GcyyyB	406
.04 Submit final lists & PRSs to Division (for use by Div. and for forwarding to OPPE)													GcyyyB	407
b. Cycle for planning FY84													GcyyyB	408
.01 Submit RFC for new contract for profiles (400k)													GcyyyB	409
.02 Award new contract (for profiles due Feb. 83); requires completion of refined list of subjects for consideration)													GcyyyB	410
c. Emerging Problems Priorities (TIRC 76k)													GcyyyB	411
.4 Research Analysis (RA)													GcyyyB	412
a. General													GcyyyB	413
.01 RA on notable items entering CA data base													GcyyyB	414
.02 Track emerging problems for recommending Division or Institute action.													GcyyyB	415
.03 Prepare RA reports, upon requests from Division or Institute Director (e.g. 5 RA reports)													GcyyyB	416
.04 IA Incremental Funding (TIRC 64k)													GcyyyB	417
b. Quantitative Risk Assessment (QRA)													GcyyyB	418
.01 Comparative Risk Assessment Manual													GcyyyB	419
a. Submit RFC													GcyyyB	420
b. Award contract													GcyyyB	421
.02 Risk Estimation Computer Software													GcyyyB	422
a. Submit RFC													GcyyyB	423
b. Award contract													GcyyyB	424
.03 Risk Assessment methodology for Reversible Toxic Effects													GcyyyB	425
a. Submit RFC													GcyyyB	426
b. Award contract													GcyyyB	427
.04 Consultant Services (14k)													GcyyyB	428
.5 Current Research File (CRF) Maintenance													GcyyyB	429
													GcyyyB	430
													GcyyyB	431
													GcyyyB	432
													GcyyyB	433
													GcyyyB	434
													GcyyyB	435
													GcyyyB	436
													GcyyyB	437
													GcyyyB	438
													GcyyyB	439
													GcyyyB	440
													GcyyyB	441

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY				P M F R E U O C N				RESOURCES	
	PLANNED COMPLETION				G H D				NPF TF	
	I	C	1Q	2Q	3Q	4Q	PY	\$1000	\$1000	
a. (Second year renewal of contract on a funds available basis)										GcyyyB 442
.01 Submit RFC					o	o				GcyyyB 443
.02 Award contract										GcyyyB 444
										GcyyyB 445
										GcyyyB 446
b. Acquisition of reports			1.5k	3k	4.5k	6k				GcyyyB 447
										GcyyyB 448
c. Data extraction & update			1.2k	2.4k	3.6k	4.8k				GcyyyB 449
d. Obtain and Input Executive Summaries of NIOSH projects										GcyyyB 450
.01 Obtain Executive Summaries of NIOSH Projects				o						GcyyyB 451
.02 Input Executive Summaries of NIOSH Projects					o					GcyyyB 452
.03 Review Executive Summaries of NIOSH Projects through Divisions					o					GcyyyB 453
.04 Submit Executive Summaries of NIOSH Projects to SSIE						o				GcyyyB 454
e. Interface with other NIOSH components										GcyyyB 455
										GcyyyB 456
										GcyyyB 457
.01 Provide output in formats for program analysis			2	4	6	8				GcyyyB 458
										GcyyyB 459
.02 Provide OPPE formats with executive summaries			1	2	3	4				GcyyyB 460
										GcyyyB 461
.03 Provide PRAB with research analysis topic searches			4	8	12	16				GcyyyB 462
g. Use of CRF										GcyyyB 463
										GcyyyB 464
.01 Internal searches			45	90	135	180				GcyyyB 465
										GcyyyB 466
.02 External searches			60	120	180	240				GcyyyB 467
.6 Document Information Directory System (DIDS)										GcyyyB 468
										GcyyyB 469
a. Acquisition of NIOSH documents			150	300	450	600				GcyyyB 470
										GcyyyB 471
b. Data extraction and update			150	300	450	600				GcyyyB 472
										GcyyyB 473
c. Input NIOSH authored presentations			100	200	300	400				GcyyyB 474
d. Interface with other NIOSH components										GcyyyB 475
.01 DIOS customized subfiles with special index terms										GcyyyB 476
a. DSHEFS-IWS			o	o	o	o				GcyyyB 477
b. DTMD				o						GcyyyB 478
.02 Submit plan to NIOSH Director for identification & input of congressional and regulatory testimony				o	o					GcyyyB 479
										GcyyyB 480
										GcyyyB 481
e. Output searches			180	360	540	720				GcyyyB 482
.7 Information systems support activities										GcyyyB 483
a. TRAINS										GcyyyB 484
.01 Update file			o	o	o	o				GcyyyB 485
.02 Revise software			o	o	o	o				GcyyyB 486
b. Mailing List										GcyyyB 487

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	P M F				R E U				RESOURCES	
	FY				O C N				PY	NPF TF
	I	C	1Q	2Q	3Q	4Q	G	H		
.01 Revise software			o							GcyyyB 488
.02 Update list			o	o	o	o				GcyyyB 489
c. Other NIOSH Divisions										GcyyyB 490
.01 Mailing list analysis			1	2	3	4				GcyyyB 491
.02 File development			1	2	3	4				GcyyyB 492
.8 Input NIOSH projects to SSIE					o					GcyyyB 493
.9 Interagency Agreements (Reimbursables)										GcyyyB 494
a. Submit IA for OSHA, BIA, MSHA, & EPA to OPPE			o							GcyyyB 495
.10 NIOSHTIC Contract and System Maintenance										GcyyyB 496
a. Renewal of main contract										GcyyyB 497
.01 Submit RFC & 2.75 to OPPE				o						GcyyyB 498
.02 Award contract						o				GcyyyB 499
b. Review Contract Deliverables										GcyyyB 500
.01 Abstract data entry			3k	6k	9k	12k				GcyyyB 501
.02 Microfiche and hard copy			3k	6k	9k	12k				GcyyyB 502
c. Increase number of NIOSHTIC records			81k	84k	87k	90k				GcyyyB 503
d. Retrospective cleanup of NIOSHTIC anomalies										GcyyyB 504
.01 Verify and correct misc. NIOSH document citations			30	60	90	120				GcyyyB 505
.02 Identify & remove duplicates			8k	8k	8k	6k				GcyyyB 506
.11 NIOSHTIC Interface with NIOSH Programs										GcyyyB 507
a. Provide literature search topics to contractor based on priorities & CIB topics			6		16					GcyyyB 508
b. Submit NIOSH documents to NTIS & NIOSHTIC & supply NTIS account numbers & NIOSHTIC number to DIDS			90	180	270	360				GcyyyB 509
c. NIOSHTIC Review Panel			o							GcyyyB 510
.01 Establish panel			o	o	o	o				GcyyyB 511
.02 Quarterly meeting										GcyyyB 512
.12 NIOSHTIC Use										GcyyyB 513
a. Provide update tapes to NTIS				o	o	o				GcyyyB 514
b. Information exchange with Canadian Center for Occupational Health & Safety			o	o	o	o				GcyyyB 515
.13 Main RTECS contract (Tracor Jitco)			o	o	o	o				GcyyyB 516
a. Reports			o	o	o	o				GcyyyB 517
b. Quarterly microfiche			o	o	o	o				GcyyyB 518
c. Total number of substances			50k	52k	53k	55k				GcyyyB 519
d. Total number of synonyms			135k	138k	141k	143k				GcyyyB 520
										GcyyyB 521
										GcyyyB 522
										GcyyyB 523
										GcyyyB 524
										GcyyyB 525
										GcyyyB 526
										GcyyyB 527
										GcyyyB 528
										GcyyyB 529
										GcyyyB 530
										GcyyyB 531
										GcyyyB 532
										GcyyyB 533

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY				P M F				RESOURCES	
	PLANNED COMPLETION				R E U				NPF	TF
	I	C	1Q	2Q	3Q	4Q	G	H		
e. Total data lines input			18k	36k	54k	72k			GeyyyB	534
.14 Second year renewal of main RTECS contract									GeyyyB	535
a. Submit RFC					o				GeyyyB	536
b. Award contract						o			GeyyyB	537
.15 Toxic Effects Code Contract									GeyyyB	538
(Univ. of California, San Francisco)									GeyyyB	539
a. Data lines received from contractor			.4k	.9k	2.0k	3.0k			GeyyyB	540
b. Submit no-cost extension			o						GeyyyB	541
c. Award extension			o						GeyyyB	542
.16 RTECS Interface with other NIOSH components									GeyyyB	543
a. Editorial Review Board Meeting			o	o	o	o			GeyyyB	544
b. Provide data for NOHS analysis			o	o	o	o			GeyyyB	545
c. Process PRAB special file data			1.5k	3k	4.5k	6k			GeyyyB	546
d. Input DPSE analytical methods			5	10	15	20			GeyyyB	547
.17 Measure of external RTECS usage									GeyyyB	548
a. Quarterly microfiche subscription increase			1k			1.2k			GeyyyB	549
b. NLM search hours/month			300	600	900	1.2k			GeyyyB	550
c. CIS search hours/month			120	240	360	480			GeyyyB	551
d. GPO sales of book						6k			GeyyyB	552
.18 NLM Interagency Agreement Renewal				o					GeyyyB	553
.19 (Production of 1981 RTECS on a funds available basis)					o				GeyyyB	554
a. Submit tape to GPO VIDEOCOMP									GeyyyB	555
									GeyyyB	556
									GeyyyB	557
									GeyyyB	558
									GeyyyB	559
									GeyyyB	560
									GeyyyB	561
									GeyyyB	562
									GeyyyB	563

HEALTH HAZARD EVALUATIONS

The purpose of this activity in NIOSH is to conduct the health hazard evaluation programs mandated by the Occupational Safety and Health and the Federal Mine Safety and Health Acts. These programs respond to requests for assistance from employers, employees and their authorized representatives, other Federal agencies, and State and local agencies to determine the toxic effects of chemical, biological, or physical agents that are used or found in the workplace. To accomplish this assistance, cross-sectional medical and industrial hygiene investigations are conducted at the workplace of concern. These investigations evaluate the substances, processes, work practices, etc. found in the workplace, and come to conclusions about related health effects based on the most recent published criteria (i.e., OSHA and MSHA standards, NIOSH recommendations for standards, and Threshold Limit Values published by the American Conference of Governmental Industrial Hygienists). Recommendations for improved work practices, control techniques, and industrial hygiene procedures are then made to the employer to reduce the risk of adverse health effects on the employees.

During FY 1981, over 500 requests for assistance were received. Over 275 final reports were issued and approximately 200 requests were closed out by letter (often after a site visit). For FY 1982, a moderate increase in the number of both requests and completions is expected. Increased dissemination of these results is planned. In addition, requests will be stimulated in several areas of specific importance and interest to the Institute. Building on efforts initiated in FY 1981, DSHEFS, DRDS, OECSP, DBBS, and DPSE will place major emphasis on increasing the efficiency of the HHE programs through streamlining procedures, better segmenting of incoming requests, and more effective management.

Division of Surveillance, Hazard Evaluations, and Field Studies

DSHEFS' HHE program has as its goal to (1) increase the responsiveness to requests, (2) continue to decrease the average time to complete an investigation, (3) increase the number of completed investigations to 500 per annum, (4) increase the number of HHEs resulting in followup research efforts by NIOSH, and (5) expand the number of subsequent dissemination efforts resulting from HHEs.

During FY 1981, over 450 HHE (general industry) requests were received. Over 230 final reports were issued, and an additional 150 requests were closed out by letter (often after a site visit). Dissemination efforts increased, including two quarterly summaries of HHE reports, ten articles in CDC's Morbidity and Mortality Weekly Report and publication of the general results of HHEs in two professional/trade journals.

For FY 1982, DSHEFS expects to receive approximately 500 new requests. These requests should continue to derive proportionately from the same sources as FY 1981: approximately 50 percent from employees or unions, 25 percent from employers (mainly small businesses), and 25 percent from other governmental agencies. Nearly 250 final reports will be issued, and another 250 requests will be completed by letter (often after an initial site visit). In addition:

1. Continued efforts will be made to improve the efficiency of the program. This will be done by better segmenting (triaging) of incoming requests to concentrate efforts on more important requests (i.e., new agents, multiple exposures, undocumented health effects). These continued efforts should lead to both greater productivity and decreased time to complete reports.
2. The effort to improve the dissemination of HHE results also will continue. This effort will include publication of CDC's MMWR articles and technical papers, and efforts to widely disseminate selected HHE results. Particular attention will be given to employers and workers in specific industries where it may be important to be aware of new HHE findings.
3. In FY 1982, the effectiveness of regional decentralization should be able to be evaluated and then a plan for any expansion of the concept can be developed, if appropriate.
4. Special areas of emphasis in the HHE program also will be developed in FY 1982. These will include hazardous wastes, reproductive hazards, and ergonomic hazards. There also will be an increased effort to uncover problems in these areas and others which are suitable for more complete followup evaluations by other NIOSH research programs.
5. A concerted effort will be made to strengthen the linkages between the HHE program and the related counterparts in universities and State health departments. Building on experience gained through cooperative agreements in FY 1981 in working with New Jersey, the University of North Carolina, and Harvard University, practical mechanisms will be developed to (a) improve communications regarding ongoing program activities of mutual interest, (b) develop capabilities to conduct HHEs at the State and academic levels, (c) jointly conduct investigations when appropriate, and (d) improve the dissemination of results of investigations.

Division of Biomedical and Behavioral Sciences

DBBS performs HHEs on factors identified with physical agents, job stress, and ergonomics problems associated with work environments or conditions. Expertise within DBBS is strongly associated with these factors in terms of intramural and extramural research consultation and field experience. In FY 1981 approximately 35 HHEs related to physical agents were performed, and six HHEs bearing on ergonomic factors were conducted. Continuation of this effort in FY 1982 and 1983 is planned.

Division of Respiratory Disease Studies

Under the provisions of Section 501(a)(11) of the Federal Mine Safety and Health Act of 1977 (Public Law 95-164), NIOSH has the responsibility to conduct HHEs in mines upon request from miners and mine operators. This program responds to health concerns of the approximately 500,000 miners in coal and metal and non-metal mines. In addition to assessing health hazards at actual mine sites, the personnel in the HHE program assess hazards in preparation plants, mills, maintenance facilities, laboratories, and waste treatment plants associated with the mine site. The program also provides technical assistance to other Federal agencies and State and local agencies with interests in mining operations.

The HHE program identifies potential health hazards at a particular mine site. Once a study is completed the results are distributed so that other mines with similar potential hazards are made aware of the particular problems. Internally, the HHE program acts as a passive surveillance program which provides information to active mine surveillance and to research programs for future areas of emphasis.

In FY 1980, the third year of operation, the program handled 64 requests requiring at least a walk-through survey and in many cases an indepth study. In FY 1981, due to budget considerations, 50 such requests were projected; by the end of the third quarter, 35 requests had been received. Similiar levels of activity are anticipated by FY 1983. In addition to surveys, the HHE program also provides technical information to individuals who write or call regarding particular interests in mining-related exposures or health problems.

The HHE program also conducts hazard evaluations related to respiratory diseases in general industry under the authority of the Occupational Safety and Health Act of 1970 (Public Law 91-173). These requests come to DRDS via the Hazard Evaluation and Technical Assistance Branch, DSHEFS.

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY				PLANNED COMPLETION				P M F			RE U		RESOURCES				
	I	C	1Q	2Q	3Q	4Q	G	H	D	PY	NPF	TF	\$1000	\$1000				
*****HEALTH HAZARD EVALUATIONS*****																V	567	
																V	568	
DIVISION OF BIOMEDICAL AND BEHAVIORAL SCIENCE																A	V	569
																A	V	570
1. Behavioral-Ergonomic Support for HHEs (A. Cohen, 684-8292) (VOB-fAE-273)(100/VOB-Vyy-273)	81	C								V	c	a				A	yyyV	572
																A	yyyV	573
																A	yyyV	574
.1 Response to TAs on Biomechanical Issues																A	yyyV	575
																A	yyyV	576
a. Perform consultation				1	2	3	4									A	yyyV	577
																A	yyyV	578
b. Perform site visits				0	1	2	3									A	yyyV	579
																A	yyyV	580
c. Submit report to DSHEFS				0	1	2	3									A	yyyV	581
.2 Response to TAs on Job Stres Issues																A	yyyV	582
																A	yyyV	583
a. Perform consultation				1	2	3	4									A	yyyV	584
																A	yyyV	585
b. Perform site visits				0	1	2	2									A	yyyV	586
																A	yyyV	587
c. Submit reports to DSHEFS				0	1	2	2									A	yyyV	588
.3 Response to HHEs on Neurobehavioral Issues																A	yyyV	589
																A	yyyV	590
a. Perform consultation				0	1	2	2									A	yyyV	591
																A	yyyV	592
b. Perform site visits				0	0	0	0									A	yyyV	593
																A	yyyV	594
c. Submit report to DSHEFS				0	0	1	1									A	yyyV	595
.4 Submit progress report to Director, DBBS				0	0	0	0									A	yyyV	596
.5 Submit final report to Director, DBBS																A	yyyV	597
.6 Submit abstract to Director, NIOSH																A	yyyV	598
																A	yyyV	599

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY	I	C	PLANNED COMPLETION				O	C	N	G	H	D	PY	RESOURCES		
				1Q	2Q	3Q	4Q								NPF	TF	
															\$1000	\$1000	
2. Clinical Chemistry Service & Research - HHEs (L. Lowry 684-8338) (100/VOT-Vyy-378)	82		C											V c a			AdyyyV 602
																	AdyyyV 603
																	AdyyyV 604
.1 Develop hazard data sheets (H.D.S.) as needed				o													AdyyyV 605
.2 Submit H.D.S. to Director, DBBS				o													AdyyyV 606
.3 Submit H.D.S. to all project staff				o													AdyyyV 607
.4 Submit progress report to Director, DBBS				o	o	o	o										AdyyyV 608
.5 Complete SOPs for common methods				o													AdyyyV 609
.6 Per quarter, complete 85% of HHE or TA samples				o	o	o	o										AdyyyV 610
.7 Develop Biological Monitoring Methods																	AdyyyV 611
a. Organic solvents				o		o											AdyyyV 612
b. Other methods as requested					o		o										AdyyyV 613
.8 Provide HHE consultation				o	o	o	o										AdyyyV 614
.9 Submit final project report to Director, DBBS							o										AdyyyV 615
.10 Submit abstract to Director, NIOSH							o										AdyyyV 616
																	AdyyyV 617
3. Health Hazard Evaluations of Physical Agents (W Murray 684-8482) (100/VOG-Vaf-354)	82		C											V c a			AeafyV 620
																	AeafyV 621
																	AeafyV 622
.1 Respond to HHE/TA requests				3	6	9	12										AeafyV 623
.2 Submit progress report to Director, DBBS				o	o	o	o										AeafyV 624
.3 Submit final report to Director, DBBS							o										AeafyV 625
.4 Submit abstract to Director, NIOSH							o										AeafyV 626
																	AeafyV 627
DIVISION OF PHYSICAL SCIENCES AND ENGINEERING																	B v 629
																	B v 630
4 HHE Analytical Support (John L. Holtz 684-4218) (VQK-uXX-425)(7.8/225/471)(100/VQK-Vyh-425)	82		C											V b a			BbyhyV 632
																	BbyhyV 633
																	BbyhyV 634
.1 Analyze routine samples from HHE and TA surveys (DSHEFS)				2.5k	5.0k	7.5k	10k										BbyhyV 635
.2 Analyze non-routine samples from HHE and TA surveys (DSHEFS)				500	1.0k	1.5k	2.0k										BbyhyV 636
.3 Analyze samples submitted from Regions				150	300	450	600										BbyhyV 637
.4 Procure Short Term Method Development Contract																	BbyhyV 638
a. Submit RFC to OAMS				o													BbyhyV 639
b. Award Contract					o												BbyhyV 640
.5 Analyze samples from General Industry HHE's (DRDS)				150	300	450	600										BbyhyV 641
.6 Provide analyses of samples from mining HHE's				250	500	750	1.0k										BbyhyV 642
.7 Short-term method development for HHE/TA surveys				4	8	12	16										BbyhyV 643
.8 Maintain an average turnaround time of 30 working days for in-house HHE and TA sample analyses.				30	30	30	30										BbyhyV 644
																	BbyhyV 645
																	BbyhyV 646

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	C	PLANNED COMPLETION				P M F R E U D C N G H D	PY	RESOURCES	
			1Q	2Q	3Q	4Q			NPF	TF
									\$1000	\$1000
DIVISION OF RESPIRATORY DISEASE STUDIES										
5. Mining Health Hazard Evaluation/Technical Assistance (Engelberg A 304-599-7203) (VKP-fpD-153)(100/VCo-Vdn-153)	81	C					V b b			
.1 FY'81 HE/TA Requests Received: 38 (4Q81)									C	V 649
.2 FY'81 HE/TA Final Reports: 22 (4Q81)									C	V 650
.3 Active Pre '82 Requests									CcdnyV	651
									CcdnyV	652
									CcdnyV	653
									CcdnyV	654
									CcdnyV	655
.4 New HE/TA Requests			40	30	20	10			CcdnyV	656
									CcdnyV	657
			10	20	30	40			CcdnyV	658
									CcdnyV	659
.5 HE/TA's Completed			10	20	30	40			CcdnyV	660
									CcdnyV	661
.6 Active Requests			40	40	40	40			CcdnyV	662
									CcdnyV	663
									CcdnyV	664
.7 Field Surveys Conducted			12	24	36	48			CcdnyV	665
									CcdnyV	666
a. DRDS			11	22	33	44			CcdnyV	667
									CcdnyV	668
b. Regions			45	91	132	182			CcdnyV	669
									CcdnyV	670
c. Other			11	21	31	42			CcdnyV	671
									CcdnyV	672
.8 HE/TA's Completed: Type of Report			10	20	30	40			CcdnyV	673
									CcdnyV	674
a. Full Reports			7	13	19	38			CcdnyV	675
									CcdnyV	676
b. Without Reports (Letter/Other)			3	7	11	12			CcdnyV	677
									CcdnyV	678
c. Other Close Outs									CcdnyV	679
									CcdnyV	680
.9 HE/TA's Completed: Investigators			10	21	32	40			CcdnyV	681
									CcdnyV	682
a. DRDS			9	18	28	37			CcdnyV	683
									CcdnyV	684
b. Regions			0	1	2	2			CcdnyV	685
									CcdnyV	686
c. Medical Services/Cooperative Agreement Reports			1	2	2	2			CcdnyV	687
									CcdnyV	688
.10 Median Response Time (Mos.)									CcdnyV	689
									CcdnyV	690
Full Reports			8	8	8	8			CcdnyV	691
									CcdnyV	692
Letter Reports			4	4	4	4			CcdnyV	693
									CcdnyV	694

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	C	PLANNED COMPLETION				P M F R E U O C N G H D			RESOURCES	
			1Q	2Q	3Q	4Q	PY	\$1000	\$1000		

.11 % Investigations over 5 months old with required Interim Reports prepared this Quarter

70% 75% 80% 85%

CcdnyV 695

CcdnyV 696

CcdnyV 697

.12 Other Requests Serviced

40 80 120 160

CcdnyV 698

CcdnyV 699

.13 Initiate Institute Studies from HE/TA's

2

CcdnyV 700

CcdnyV 701

.14 Final reports transmitted to requestor and/or interested parties, and NIOSH distribution

o o o o

CcdnyV 702

CcdnyV 703

.15 Criteria Document Assistance

CcdnyV 704

a. Complete Input and Review of In-house Criteria Documents

o o o o

CcdnyV 705

CcdnyV 706

b. Complete Review of Contract Criteria Documents

o o o o

CcdnyV 707

c. Complete Support to OSHA and Hearings and Other Congressional Hearings

o o o o

CcdnyV 708

CcdnyV 709

CcdnyV 710

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I C	PLANNED 1Q	COMPLETION 2Q	3Q	4Q	P M F R E U O C N G H D	PY	RESOURCES	
								NPF	TF
								\$1000	\$1000
DIVISION OF SURVEILLANCE, HAZARD EVALUATIONS AND FIELD STUDIES									
6. Health Hazard Evaluations and Technical Assistance (Jim Maljus 513-684-2176) (71.5/2,000.0/3,700.0)(100/VMC-Vyy-688)(100/VMR-Wyy-680)	80	C				V g a			
A. FY'81 HE/TA requests received through 3Q81- 365.								DayyyV	713
B. FY'81 completed HE/TA's through 3Q81 - 283.								DayyyV	714
C. Active pre'82 requests.		325	250	175	100			DayyyV	715
D. New HE/TA requests.		125	250	375	500			DayyyV	716
E. HE/TA's completed.		125	250	375	500			DayyyV	717
F. Active requests.		400	400	400	400			DayyyV	718
G. Initial surveys conducted		100	200	300	400			DayyyV	719
1. HETAB		45	90	135	180			DayyyV	720
2. Regions		45	90	135	180			DayyyV	721
3. Other		10	20	30	40			DayyyV	722
H. Follow-up surveys conducted.		65	130	195	260			DayyyV	723
1. HETAB		35	70	105	140			DayyyV	724
2. Regions		25	50	75	100			DayyyV	725
3. Other		5	10	15	20			DayyyV	726
I. HE/TA's completed: type of report		125	250	375	500			DayyyV	727
1. Full reports		65	130	195	260			DayyyV	728
2. Letter reports		35	70	105	140			DayyyV	729
3. Other close outs		25	50	75	100			DayyyV	730
J. HE/TA's completed: investigators		125	250	375	500			DayyyV	731
1. HETAB		70	140	210	280			DayyyV	732
2. Regions		50	100	150	200			DayyyV	733
								DayyyV	734
								DayyyV	735
								DayyyV	736
								DayyyV	737
								DayyyV	738
								DayyyV	739
								DayyyV	740
								DayyyV	741
								DayyyV	742
								DayyyV	743
								DayyyV	744
								DayyyV	745
								DayyyV	746
								DayyyV	747
								DayyyV	748
								DayyyV	749
								DayyyV	750
								DayyyV	751
								DayyyV	752
								DayyyV	753
								DayyyV	754
								DayyyV	755
								DayyyV	756
								DayyyV	757
								DayyyV	758

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	P M F R E U O C N				RESOURCES	
	FY PLANNED COMPLETION				NPF	TF
	I C	1Q	2Q	3Q	4Q	G H D PY \$1000 \$1000
OFFICE OF EXTRAMURAL COORDINATION AND SPECIAL PROJECTS						
8. Regional Office Services (Bursenos, 443-3136)	71	C				V c a
(VCH-fXy-876) (1.0/0.015/0.04) (100/VCH-Wyy-876)						
(VCI-fXy-882) (36.0/0.300/1,500.0) (100/VCI-Vyy-882)						
.1 Conduct HHE/TA's in determining toxic effects of substances used in the workplace per Section 20(a)(6) of the OSH Act.						
a. FY 81 Carryover Requests:						
.01 Expected carryover requests		170				
.02 Complete remaining initial surveys		25	50			
.03 Conduct follow-up environmental surveys		30	60	90		
.04 Submit draft final report to DSHEFS		30	70	100		
.05 Close-out letters		o	o	o	o	
b. FY 82 Requests						
.01 HHE/TA requests assigned		40	80	120	160	
.02 Conduct initial surveys		30	60	90	120	
.03 Conduct follow-up environmental surveys		20	40	60	90	
.04 Submit draft final report to DSHEFS			30	50	70	
.05 Close-out letters		o	o	o	o	
.2 Provide consultation and assistance to and in behalf of Testing and Certification Branch, DSR in the area of Personal Protective Equipment						
a. Conduct field investigations of complaints related to personal protective equipment at the request of Field Investigations Group		6	14	20	26	
b. Identify users and sites for testing field effectiveness of PPE in the Regions		o	o	o	o	
c. Transmit findings of potential PPE problems discovered in field by users to NIOSH Headquarters, DSR and TCB		o	o	o	o	
d. Establish and obtain equipment for a field audit program			o			
.3 Provide consultation and technical assistance in the Regions as well as to NIOSH Headquarters in the area of hazardous wastes disposal						
a. Serve as member on and/or provide technical assistance to regional response teams		o	o	o	o	
b. Provide on-site technical assistance and advice regarding worker exposure to hazardous and toxic wastes via NIOSH HHE/TA program and NIOSH responsibilities in the interagency agreement on management of toxic and hazardous wastes		o	o	o	o	
.4 Conduct investigations of workplace hazards and provide industrial hygiene and safety consultative services, self-initiated and upon request (DSHEFS assigned TA's excluded)		50	100	150	200	
.5 State Occupational Safety and Health Program Activities						

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY				P M F				RESOURCES	
	PLANNED COMPLETION				R E U				NPF TF	
	I C	1Q	2Q	3Q	4Q	G H D	PY	\$1000	\$1000	
a. Monitor and/or review the administrative and technical adequacy of State 23(g) grants and make appropriate recommendations to OSHA					22					FbyyyV 884
										FbyyyV 885
										FbyyyV 886
b. Assist States in further development of their occupational safety and health enforcement and/or consultation program(s) by providing technical expertise and information, site visits with programmatic reviews and assistance in defining and fulfilling staff training needs		o	o	o	o					FbyyyV 887
										FbyyyV 888
										FbyyyV 889
										FbyyyV 890
										FbyyyV 891
										FbyyyV 892
c. Identify gaps in State occupational safety and health programs which could be addressed by NIOSH and provide written recommendations to appropriate Institute activity for consideration in their program planning		o	o	o	o					FbyyyV 893
										FbyyyV 894
										FbyyyV 895
										FbyyyV 896
d. Provide consultation and technical assistance to States or other political subdivisions with "Right to Know" legislation or proposed legislation		o	o	o	o					FbyyyV 897
										FbyyyV 898
										FbyyyV 899
.6 Support and promote organized activities within the Region and Nationally impacting on workplace hazards by:										FbyyyV 900
a. Participating in appropriate committees, task forces, workshops, etc.		o	o	o	o					FbyyyV 901
										FbyyyV 902
										FbyyyV 903
b. Serving as resource persons to such organizations as NHSC, HSA's, professional organizations, universities, safety councils, Labor/Management Committees, etc.		o	o	o	o					FbyyyV 904
										FbyyyV 905
										FbyyyV 906
.7 Site-visit each ERC for program monitoring; site-visit or consult with other appropriate institutions within the regions for stimulation or monitoring research or training grants		10	20	30	40					FbyyyV 907
										FbyyyV 908
										FbyyyV 909
										FbyyyV 910
.8 Provide lectures, seminars, or training sessions within the regions to increase responsiveness to and awareness of occupational safety and health problems		25	50	75	100					FbyyyV 911
										FbyyyV 912
										FbyyyV 913
.9 Consult with MSHA, DOL, with respect to granting of waivers for provision of sanitary facilities and grant such approvals required by Subpart E and F of the Mandatory Health Standards for Surface Coal Mines		o	o	o	o					FbyyyV 914
										FbyyyV 915
										FbyyyV 916
										FbyyyV 917
10 Plan and conduct two regional program planning meetings		1		2						FbyyyV 918
11 Work with OPPE to develop a mechanism for Regional involvement in NIOSH planning process		o								FbyyyV 919
										FbyyyV 920
12 Develop white paper on proposed designation of regional staff to serve as liaison with each NIOSH Office and Division			o							FbyyyV 921
										FbyyyV 922
										FbyyyV 923
13 Visit each regional office annually to review regional program activities and problems		3	5	7	10					FbyyyV 924
										FbyyyV 925
14 Hold monthly Regional conference calls, including participation of Director, NIOSH and appropriate Offices/Divisions		3	6	9	12					FbyyyV 926
										FbyyyV 927
15 Prepare and submit to CDC Institute guidelines for RHA's annual workplans					o					FbyyyV 928
										FbyyyV 929

EVALUATE OCCUPATIONAL SAFETY AND HEALTH PROBLEMS

NIOSH's goal, to evaluate occupational safety and health problems, is the core of NIOSH's scientific research. Under this goal NIOSH tests scientific hypotheses through the disciplines of epidemiology, toxicology, and kinesiology. NIOSH scientists ascertain and measure precisely the cause-and-effect relationship(s) of identified occupational safety and health hazards and the significance of each hazard. As associations of occupational safety and health problems are made to causes, intervention strategies can be implemented to prevent the problems. The following long-range objectives for the Nation are considered under this goal:

1. By 1985, a program should be developed to (a) follow up individual findings from health hazard evaluations, from reports from unions and management and from other existing surveillance sources of clinical and epidemiologic data, and (b) use the findings to determine the etiology, natural history, and mechanisms of suspected occupational disease and injury.
2. By 1990, the number of industrywide studies being performed annually should increase to 150. (In 1979, NIOSH performed about 15 industrywide studies.)

And the following FY 1982 objectives requested by DOL's NIOSH Planning Group also are considered under this goal:

First-Order Priority

1. Provide information, to MSHA, to develop heat-stress limits in mines.
2. Provide information, to MSHA, to develop multiphase exposure limits for each compound of vanadium.
3. Investigate the problems of repetitive motion injuries for the Occupational Safety and Health Administration.

Second-Order Priority

4. Provide information, to MSHA, that is necessary for developing multiphase exposure limits for lead sulfides vs. lead oxides.
5. Provide information, to MSHA, that is necessary for developing multiphase exposure limits for arsenic sulfides vs. arsenic oxides.

6. Provide information, to MSHA, that is necessary for developing multiphase exposure limits for the synergistic effects of coal mine respirable dust and diesel exhausts.
7. Provide information, to MSHA, that is necessary for developing multiphase exposure limits for dust and quartz.

Third-Order Priority

8. Provide information, to MSHA, that is necessary for developing multiphase exposure limits for nitrogen oxides.
9. Provide information, to MSHA, that is necessary for developing multiphase exposure limits for carbon oxides.

REPRODUCTIVE EFFECTS

Recent research data have highlighted the fact that the occupational setting can be the source of reproductive effects as well as the more commonly acknowledged deleterious effects such as lung dysfunction, cancer, dermatitis, etc. This research includes information on effects such as male sterility in dibromochloropropane workers, impotence in workers exposed to a neurotoxin, increased birth defects among children born to women pharmaceutical workers, and excessive spontaneous abortions among medical laboratory and office workers and hospital and dental personnel exposed to anesthetic gases. These startling facts have shown the need for better means to identify and evaluate hazardous chemicals and populations at risk, and to determine whether an occupational cluster of adverse reproductive effects is actually a result of occupation. To accomplish this, a formal reproductive effects initiative was established within NIOSH in FY 1980. This initiative is being implemented through laboratory and epidemiologic studies and will rely on improved methods for mutagenicity and teratogenicity testing and better epidemiologic tools which have been developed in the last 3 years. Completion of NIOSH's second National Occupational Hazard Survey (NOHS-II) also should enable NIOSH to identify most workers at risk once a hazard is identified. In addition, both surveillance and health hazard evaluation activities will complement laboratory methods used to identify hazards.

Division of Biomedical and Behavioral Sciences

DBBS's reproductive hazards program includes identification and assessment of chemicals that prevent or inhibit reproduction through effects on adults of either sex, interfere with normal development, are expressed either in utero or postnatally, or cause genetic disease. A total of 33 chemicals have been tested. Significant findings include the demonstration of adverse effects from glycol ethers on the reproductive systems of both male and female rats. Methods involving the use of drosophila for short-term teratogenesis screening are being developed. Laboratory studies of the effects of radiofrequency and microwave radiation have demonstrated that teratogenic effects in rats include facial aplasia and microencephaly. In FY 1982 efforts will continue that will:

1. Broaden the base of the reproductive toxicology program to develop a coordinated effort in reproductive physiology, teratogenesis, and mutagenesis.

2. Establish a comprehensive research program to address each of the three general classes of reproductive effects (fertility impairment, abnormal development, and genetic disease) and how they relate one to another.
3. Take a lead role in developing and applying laboratory methods for evaluating the potential of mutagenic industrial chemicals to adversely affect subsequent generations.

Division of Respiratory Disease Studies

This Division's mutagenic monitoring of selected workplace environments and worker groups serves several purposes: the detection of mutagens in the workplace; the determination of whether mutagenic compounds found in the workplace are sufficient to cause genetic damage to the workers; establishing the relationship between the level of workplace mutagens, genetic damage, and health hazards; and identifying worker population groups for epidemiologic and surveillance studies. The results of mutagenic monitoring might be used as an environmental or biological dosimeter for adverse health effects. Activities in this area include:

1. The development of suitable mutagenic monitoring systems for the workplace environment.
2. Development and/or validation of in vitro assay systems to study the mutagenic activity of workplace chemical complexes and mixtures.
3. Performance, validation, or improvement of human mutagenic monitoring systems which include urine analysis and cytogenetic and gene mutation assays.
4. Performance of in vitro mutagenesis studies for health hazard evaluations and other related projects within the Institute, and identification of occupational groups for mutagenic monitorings and epidemiologic studies.

Division of Surveillance, Hazard Evaluations, and Field Studies

DSHEFS performs two types of studies to examine the adverse reproductive effects that may be caused by occupational exposures to certain biological, chemical, and physical agents. These effects may be manifested as infertility, spontaneous abortion, fetal death, low birth weight, altered sex ratio, birth defects, developmental deficits, and childhood cancer.

The two epidemiologic approaches employed by DSHEFS are case-control studies of reproductive failure and parental exposure cohort studies.

Surveillance studies utilize existing data to establish associations between reproductive failures and parental employment, and usually use the case-control design. The DSHEFS FY 1982 surveillance reproductive initiative program consists of five projects that were initiated in FYs 1980 and 1981:

1. An interagency agreement with NCHS is being utilized to collect data from their 1980 National Natality and Fetal Death follow-back study.
2. Surveillance cooperative agreements with New York and Utah are being utilized to analyze State data on the possible association between parental employment and fetal death.
3. A case comparison study of parental employment and fetal outcome is being conducted utilizing data from New York City.
4. A study of parental employment and spontaneous abortion is being conducted using the extensive data set compiled by the Research Foundation for Mental Hygiene, Inc. (Columbia University).
5. Identification of groups of workers potentially exposed to teratogens in the workplace as sensed by means of the 1972-74 NOHS-I is being accomplished through linkage with NIOSH's Registry of Toxic Effects of Chemical Substances.

Those reproductive hazards investigations that fall into DSHEFS' industrywide studies program are generally conducted using the parental exposure cohort concept. The study designs and analytical tools necessary to conduct these investigations have been developed over the last few years. This effort has yielded a detailed reproductive history questionnaire which has been tested in the field, the development of computer-based masterfile formats, and analytical programs. The data for several field studies (wives of male lead workers, wives of male workers exposed to carbon disulfide, and female pharmaceutical workers) have been collected and computerized. The analysis and final reports for these studies will be completed in FY 1982.

The results generated from these studies will add significantly to our understanding of the effects on the reproductive system (male and female) from certain occupational exposures and, depending on the results, these studies may provide important information to help set standards and protect the health of the workers.

The rapid relay of toxicology data from DBBS has provided important information for expeditiously proceeding with a reproductive study of glycol ethers, which will be initiated fully in FY 1982. Contacts with other agencies that are now developing data are expected to produce similar benefits.

A new unit within DSHEFS has been established to focus on reproductive effects research in FY 1982. This unit will begin setting priorities, assessing the feasibility of conducting additional field studies, and expanding into other study designs. In addition to the glycol ethers project mentioned above, two other research projects will continue into FY 1982:

1. A cytogenetic study of workers in the pharmaceutical industry and workers exposed to low-level ionizing radiation.
2. A reproductive study of females exposed to polychlorinated biphenyls, which will evaluate neonatal deaths, miscarriages, stillborns, congenital defects, and low birth weight.

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	F M F				R E U				RESOURCES	
	FY				O C N				NPF TF	
	PLANNED COMPLETION				G H D				PY \$1000 \$1000	
	I	C	1Q	2Q	3Q	4Q				
*****REPRODUCTIVE EFFECTS*****										
									A	933
									A	934
DIVISION OF BIOMEDICAL AND BEHAVIORAL SCIENCE									A	935
									A	936
1. Behavioral Teratology of Cellosolves (K. Nelson, 684-8383) (VOB-cCh-278)(1.0/7.6/35.0)(100/VOB-Ahy-278)	81	83					A	c a	AahyyA	938
.1 Complete peer review (2Q81)									AahyyA	939
.2 Submit final protocol to Director, DBBS (2Q81)									AahyyA	940
.3 Submit Hazard Data Sheet to staff (3Q81)									AahyyA	941
.4 Initiate cellosolve exposures (2Q81)									AahyyA	942
.5 Submit progress report to Director, DBBS									AahyyA	943
.6 Complete cellosolve exposures									AahyyA	944
a. 2-methoxyethanol (3Q81)									AahyyA	945
b. 2-butoxyethanol (4Q81)									AahyyA	946
c. 2-ethoxy-ethoxy ethanol									AahyyA	947
d. 2-ethoxyethanol acetate									AahyyA	948
.7 Initiate behavioral testing									AahyyA	949
.8 Initiate neurochemical analyses									AahyyA	950
.9 Complete neurochemical analyses									AahyyA	951
.10 Submit teratology report to Director, DBBS									AahyyA	952
.11 Complete behavioral testing (3Q83)									AahyyA	953
.12 Submit final project report to Director, DBBS (4Q83)									AahyyA	954
.13 Submit abstract to Director, NIOSH (4Q83)									AahyyA	955
.14 Submit project records to Q.A. Unit, DBBS (4Q83)									AahyyA	956
									AahyyA	957
									AahyyA	958
									AahyyA	959

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY		PLANNED COMPLETION				P M T		R E U		O C N		RESOURCES	
	I C		1Q	2Q	3Q	4Q	G	H	D	PY	NPF	TF	\$1000	\$1000
2. Development of Teratogen Screening Methods (R. Schuler 684-8357) (V00-cAh-340)(0.1/2.5/5.5)(100/V00-Ahy-340)	81	83					A	b	a				AchyyA	962
.1 Consult Information Office (1Q81)													AchyyA	963
.2 Complete project peer review (1Q81)													AchyyA	964
.3 In-house studies													AchyyA	965
A. Mouse Teratology Screening Technique													AchyyA	966
a. Initiate positive control study (1Q81)													AchyyA	967
b. Complete positive control study (3Q81)													AchyyA	968
.4 Contract Teratology Studies (Four)													AchyyA	969
a. Initiate testing of chemicals (each contract)			o										AchyyA	970
b. Complete site visit				o									AchyyA	971
c. Review progress reports			o	o	o	o							AchyyA	972
d. Complete test					o								AchyyA	973
e. Receive final reports						o							AchyyA	974
f. Submit report to Director, DBBS						o							AchyyA	975
.5 Contract Teratology Screening													AchyyA	976
a. Submit RFCs to OAMS				o									AchyyA	977
b. Award contracts (3)					o								AchyyA	978
c. Initiate testing						o							AchyyA	979
d. Perform site visit (1Q83)													AchyyA	980
e. Review progress reports (1Q83)(2Q83)(3Q83)													AchyyA	981
f. Receive final reports (4Q83)													AchyyA	982
g. Submit report to Director, DBBS (4Q83)													AchyyA	983
.6 Submit progress report to Director, DBBS			o	o	o	o							AchyyA	984
.7 Submit final project report to Director, DBBS (4Q83)													AchyyA	985
.8 Submit abstract to Director, NIOSH (4Q83)													AchyyA	986
.9 Submit project records to Q.A. Unit, DBBS (4Q83)													AchyyA	987
													AchyyA	988
													AchyyA	989
													AchyyA	990

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	P M F				R E U			RESOURCES	
	FY				O C N			NPF	TF
	I	C	1Q	2Q	3Q	4Q	G H D	PY	\$1000 \$1000
3. Development of Sperm Analysis Methods (B. Hardin, 684-8394) (V00-cCy-342)(1.4/60.7/100.7)(100/V00-Ayy-342)	81	83					A b a		
.1 Consult Information Office (1Q81)									AcyyaA 993
.2 Complete NIEHS site visit (2Q81)									AcyyaA 994
.3 Award FFS for sperm head morphology assay (2Q81)									AcyyaA 995
.4 Receive analysis of slides									AcyyaA 996
a. Propylene oxide (2Q81)									AcyyaA 997
b. Ethoxyethanol (2Q81)									AcyyaA 998
c. Ethylene oxide (2Q81)									AcyyaA 999
.5 Submit progress reports to Director, DBBS			o	o	o	o			AcyyaA 1000
.6 Complete training and familiarization with videographic and hamster ova systems			o						AcyyaA 1001
.7 Begin testing known antifertility agents			o						AcyyaA 1002
.8 Complete review of literature on biochemical markers			o						AcyyaA 1003
.9 Complete peer review				o					AcyyaA 1004
.10 Complete report on potential of videographic techniques						o			AcyyaA 1005
.11 Apply semen analysis methods in NIOSH field studies (1Q83)									AcyyaA 1006
.12 Submit final report to Director, DBBS (4Q83)									AcyyaA 1007
.13 Submit abstract to Director, NIOSH (4Q83)									AcyyaA 1008
.14 Submit project records to Q. A. Unit, DBBS (4Q83)									AcyyaA 1009
4. Teratogen Screening Using Drosophila (R. Schuler, 684-8357) (V00-cCy-344)(0.6/262.0/280.0)(100/V00-Ayy-344)	81	83					A c a		
.1 Hazard Data Sheet (H.D.S)									AcyyaA 1010
a. Develop H.D.S. (1,2,3,4Q81)									AcyyaA 1011
b. Submit H.D.S. to Director (1,2,3,4Q81)									AcyyaA 1012
c. Submit H.D.S. to all project staff (1,2,3,4Q81)									AcyyaA 1013
.2 Submit progress report to Director, DBBS			o	o	o	o			AcyyaA 1014
.3 Initiate development of Drosophila teratogen screening methodology (1Q81)									AcyyaA 1015
.4 Complete development of screening methodology (4Q81)			o						AcyyaA 1016
.5 Initiate validation testing						o			AcyyaA 1017
.6 Complete validation testing						o			AcyyaA 1018
.7 Develop RFC					o				AcyyaA 1019
.8 Complete peer review						o			AcyyaA 1020
.9 Submit RFC to Director, DBBS						o			AcyyaA 1021
.10 Submit RFC to OAMS						o			AcyyaA 1022
.11 Award Contract (1Q83)									AcyyaA 1023
.12 Submit final report to Director, DBBS (4Q83)									AcyyaA 1024
.13 Submit abstract to Director, NIOSH (4Q83)									AcyyaA 1025
.14 Submit project records to Q.A. Unit, DBBS (4Q83)									AcyyaA 1026
									AcyyaA 1027
									AcyyaA 1028
									AcyyaA 1029
									AcyyaA 1030
									AcyyaA 1031
									AcyyaA 1032
									AcyyaA 1033
									AcyyaA 1034
									AcyyaA 1035
									AcyyaA 1036
									AcyyaA 1037
									AcyyaA 1038

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY				PLANNED COMPLETION				P M F			RESOURCES	
	I C		1Q	2Q	3Q	4Q	G H D	PY	NPF TF				
												\$1000	\$1000
5. Male Reproduction: Glycol Ethers (B. Hardin 684-8394) (0.3/6.5/15.0)(100/V00-Ahy-309)	82	83					A a a					AchyyA	1041
												AchyyA	1042
												AchyyA	1043
.1 Submit draft protocol to Director, DBBS												AchyyA	1044
.2 Complete peer review												AchyyA	1045
.3 Submit progress report to Director, DBBS												AchyyA	1046
.4 Drosophila Tests												AchyyA	1047
a. Submit RFC to OAMS												AchyyA	1048
b. Award Contract												AchyyA	1049
c. Perform site visit (3Q83)												AchyyA	1050
d. Initiate exposures												AchyyA	1051
e. Complete exposures (2Q83)												AchyyA	1052
f. Receive draft final report (3Q83)												AchyyA	1053
g. Submit final report to Director, DBBS (3Q83)												AchyyA	1054
h. Submit abstract to Director, NIOSH (3Q83)												AchyyA	1055
.5 Mammalian Test												AchyyA	1056
a. Submit RFC to OAMS												AchyyA	1057
b. Award contract												AchyyA	1058
c. Complete site visit (4Q83)												AchyyA	1059
d. Initiate exposures												AchyyA	1060
e. Complete exposures (3Q83)												AchyyA	1061
f. Receive draft final report (4Q83)												AchyyA	1062
g. Submit final report to Director, DBBS (4Q83)												AchyyA	1063
h. Submit abstract to Director, NIOSH (4Q83)												AchyyA	1064
.6 Submit final project report to Director, DBBS (4Q83)												AchyyA	1065
.7 Submit abstract to Director, NIOSH (4Q83)												AchyyA	1066
.8 Submit project records to Q. A. Unit, DBBS (4Q83)												AchyyA	1067
												AchyyA	1068

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY				PLANNED COMPLETION				P H F		R E U		O C N		RESOURCES	
	I C		1Q		2Q		3Q		4Q		G H D		PY		NPF TF	
6. Teratogenic Assessment: Glycol Ethers (B. Hardin 684-8394) (0.2/222.4/228.4)(100/V00-Ahy-313)	82	83									A	b	a			
.1 Complete peer review				o											AchyyA	1071
.2 Submit final study protocol to Director, DBBS				o											AchyyA	1072
.3 Submit progress report to Director, DBBS				o	o	o	o								AchyyA	1073
.4 Teratogenic Assessment of 3 Glycol Ethers															AchyyA	1074
a. Submit RFC to OAMS				o											AchyyA	1075
b. Award Contract							o								AchyyA	1076
c. Complete site visit (1Q83)(13Q83)									o						AchyyA	1077
d. Initiate animal exposures									o						AchyyA	1078
e. Complete animal exposures (3Q83)															AchyyA	1079
f. Receive draft final report (3Q83)															AchyyA	1080
g. Submit final report to Director, DBBS (4Q83)															AchyyA	1081
h. Submit abstract to Director, NIOSH (4Q83)															AchyyA	1082
.5 Teratogenic Assessment of Ethylene Oxide, Propylene Oxide, and Butyl Acetate															AchyyA	1083
a. Award contract (260-80-0013)(4Q80)															AchyyA	1084
b. Initiate animal exposures (1Q81)															AchyyA	1085
c. Submit contract modification to OAMS				o											AchyyA	1086
d. Complete site visits (4Q80)(2Q81)(4Q81)					o										AchyyA	1087
e. Award modification				o											AchyyA	1088
f. Complete animal exposures				o											AchyyA	1089
g. Receive draft final report							o								AchyyA	1090
h. Submit final report to Director, DBBS							o								AchyyA	1091
i. Submit abstract to Director, NIOSH									o						AchyyA	1092
.6 Submit final project report to Director, DBBS (4Q83)															AchyyA	1093
.7 Submit abstract to Director, NIOSH (4Q83)															AchyyA	1094
.8 Submit project records to Q. A. Unit, DBBS (4Q83)															AchyyA	1095
															AchyyA	1096
															AchyyA	1097
															AchyyA	1098
															AchyyA	1099
															AchyyA	1100

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY				PLANNED COMPLETION				P M F			RESOURCES	
	I C		1Q	2Q	3Q	4Q	G H D	PY	R E U		O C N	NPF	TF
												\$1000	\$1000
7. Toxicity of Aliphatic and Aromatic Amines (H. Plotnick 684-8496) (V00-cXt-337)(0.1/1.5/4.5)(100/V00-Ahy-337)	81	84					A a a						
.1 Develop RFC (1Q81)												AchyyA	1103
.2 Complete peer review (1Q81)												AchyyA	1104
.3 Submit RFC to Director, DBBS (1Q81)												AchyyA	1105
.4 Submit RFC to OAMS (1Q81)												AchyyA	1106
.5 Award contract (4Q81)												AchyyA	1107
.6 Submit progress report to Director, DBBS												AchyyA	1108
.7 Initiate LC50 studies												AchyyA	1109
.8 Make site visit to contractor (1Q83)												AchyyA	1110
.9 Complete LC50 studies												AchyyA	1111
.10 Initiate subchronic studies												AchyyA	1112
.11 Complete 6-month exposure (1Q83)												AchyyA	1113
.12 Complete histopathologic evaluation (3Q83)												AchyyA	1114
.13 Review draft final report from contractor (4Q83)												AchyyA	1115
.14 Submit final report to Director, DBBS (1Q84)												AchyyA	1116
.15 Submit abstract to Director, NIOSH (1Q84)												AchyyA	1117
.16 Submit project records to Q.A. Unit, DBBS (1Q84)												AchyyA	1118
												AchyyA	1119
												AchyyA	1120
												AchyyA	1121
												AchyyA	1122

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY				PLANNED COMPLETION				P M F			RESOURCES	
	I	C	1Q	2Q	3Q	4Q	G	H	D	PY	NPF	TF	
8. Biotransformation of Priority Chemicals (H. Plotnick, 684-8496) (V00-cXh-333)(2.0/94.0/150.0)(0.2/5.0/11.0)(100/V00-Ahy-333)	80	84					A	c	a				
.1 Submit progress report to Director, DBBS												AchyyA 1125	
.2 Submit project protocol to Director, DBBS (3Q81)												AchyyA 1126	
.3 2-Ethoxyethanol Studies												AchyyA 1127	
a. Initiate pilot biotransformation study (3Q81)												AchyyA 1128	
b. Complete pilot biotransformation study (4Q81)												AchyyA 1129	
c. Initiate biotransformation study												AchyyA 1130	
d. Complete biotransformation study												AchyyA 1131	
e. Submit report to Director, DBBS (1Q83)												AchyyA 1132	
.4 2-Methoxyethanol Studies												AchyyA 1133	
a. Initiate biotransformation study												AchyyA 1134	
b. Complete biotransformation study												AchyyA 1135	
c. Submit report to Director, DBBS (1Q83)												AchyyA 1136	
.5 Bis(2-methoxyethyl)ether Studies												AchyyA 1137	
a. Initiate biotransformation study												AchyyA 1138	
b. Complete biotransformation study												AchyyA 1139	
c. Submit report to Director, DBBS (1Q83)												AchyyA 1140	
.6 Consultative Services												AchyyA 1141	
a. Consult on structure/activity relationships												AchyyA 1142	
b. Present short course on S/A relationships												AchyyA 1143	
.7 Submit manuscript for publication (1Q83)												AchyyA 1144	
.8 FY 83 studies of new chemical class												AchyyA 1145	
a. Initiate biotransformation study (1Q83)												AchyyA 1146	
b. Complete biotransformation study (4Q83)												AchyyA 1147	
c. Submit report to Director, DBBS (1Q84)												AchyyA 1148	
.9 Submit final project report to Director, DBBS (1Q84)												AchyyA 1149	
.10 Submit abstract to Director, NIOSH (1Q84)												AchyyA 1150	
.11 Submit project records to Q.A. Unit, DBBS (1Q84)												AchyyA 1151	
												AchyyA 1152	
												AchyyA 1153	
												AchyyA 1154	
												AchyyA 1155	

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY		PLANNED COMPLETION				P M F		R E U		O C N		G H D		PY		RESOURCES			
	I C		1Q	2Q	3Q	4Q											NPF	TF		
																	\$1000	\$1000		
9. Reproduction and Low Frequency RF Radiation (J. Lary, 684-8482) (2.8/16.0/100.0)(2.8/16.0/100.0)(2.0/14.0/69.0) (100/VOG-Aaf-368)	82	85					A c a												AeafyA	1158
																			AeafyA	1159
																			AeafyA	1160
																			AeafyA	1161
.1 Induction Heater Survey																			AeafyA	1162
a. Identify manufacturers of induction heaters																			AeafyA	1162
b. Contact users and arrange walk-through surveys																			AeafyA	1163
c. Estimate population exposed																			AeafyA	1164
d. Determine instrument needs																			AeafyA	1165
e. Initiate surveys of induction heaters																			AeafyA	1166
f. Complete surveys of induction heaters																			AeafyA	1167
g. Submit report to Director, DBBS																			AeafyA	1168
.2 Reproduction Study																			AeafyA	1169
a. Initiate literature review																			AeafyA	1170
b. Complete literature review																			AeafyA	1171
c. Contact information office about Peer Review notice																			AeafyA	1172
d. Initiate writeup of project protocol																			AeafyA	1173
e. Complete writeup of project protocol (1Q83)																			AeafyA	1174
f. Complete peer review (2Q83)																			AeafyA	1175
g. Submit final project protocol to Director, DBBS (2Q83)																			AeafyA	1176
h. Prepare SOPs for RF reproduction research (3Q83)																			AeafyA	1177
i. Initiate RF male reproduction study (3Q83)																			AeafyA	1178
j. Complete RF male reproduction study (3Q84)																			AeafyA	1179
k. Initiate RF female reproduction study (3Q84)																			AeafyA	1180
l. Complete RF female reproduction study (2Q85)																			AeafyA	1181
m. Submit final project report to Director, DBBS (2Q85)																			AeafyA	1182
n. Submit abstract of final report to Director, NIOSH (2Q85)																			AeafyA	1183
o. Submit project records to Q.A. Unit, DBBS (2Q85)																			AeafyA	1184
.3 Submit progress report to Director, DBBS																			AeafyA	1185
																			AeafyA	1186
																			AeafyA	1187

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY				PLANNED COMPLETION				P M F		R E U		O C N		RESOURCES	
	I C				1Q 2Q 3Q 4Q				G H D		PY		NPF TF		\$1000 \$1000	
DIVISION OF RESPIRATORY DISEASE STUDIES																
10. InVitro Mutagenesis Studies	81	82							A	b	a				C A	1190
(Orig T 304-599-7516)(VKC-cCB-118)															C A	1191
(100/VCD-Adu-118)															CdduyA	1192
.1 Complete validation of arabinose assay system with environmental samples															CdduyA	1193
.2 Complete evaluation of arabinose assay system for the detection of mutagens in urine samples															CdduyA	1194
.3 Complete evaluation of storage effect on the recovery of mutagens from urine samples															CdduyA	1195
.4 Complete development of new tester strains for insitu mutagenesis testings															CdduyA	1196
.5 Recovery of different chemicals from urine samples study completed															CdduyA	1197
.6 Complete the final report and submit abstract to the Director, NIOSH, with copy of report and abstract to DTS															CdduyA	1198
															CdduyA	1199
															CdduyA	1200
															CdduyA	1201
															CdduyA	1202
															CdduyA	1203
															CdduyA	1204
															CdduyA	1205
															CdduyA	1206
															CdduyA	1207
															CdduyA	1208
11. Mutagenic Monitoring for High Risk Workers	80	84							A	b	b				CdiduA	1211
(Orig T 304-599-7516) (VKC-ciB-112)(0.5/118.0/145.0)															CdiduA	1212
(0.5/15.0/32.0)(100/VCD-Aid-112)															CdiduA	1213
.1 OMB approval received															CdiduA	1214
.2 Walk-thru survey completed															CdiduA	1215
.3 Complete selection of workers and control group for testing															CdiduA	1216
.4 Complete air samplings and bioassays for the extracts of air particles (1Q83)															CdiduA	1217
.5 Complete administration of Medical History Questionnaire and collection of blood and urine specimens for the first experiment (1Q83)															CdiduA	1218
.6 Complete urine and cytogenetic analysis for the first experiment (3Q83)															CdiduA	1219
.7 Complete collection of blood and urine specimens for the second experiment (3Q83)															CdiduA	1220
.8 Complete urine and cytogenetic analysis for the second experiment (4Q83)															CdiduA	1221
.9 Complete necessary repeat experiments (1Q84)															CdiduA	1222
.10 Review final draft report (2Q84)															CdiduA	1223
.11 Receive completed final report (3Q84)															CdiduA	1224
.12 Submit final report and abstract to the Director, NIOSH with copy of report and abstract to DTS (4Q84)															CdiduA	1225
															CdiduA	1226
															CdiduA	1227
															CdiduA	1228
															CdiduA	1229
															CdiduA	1230
															CdiduA	1231
															CdiduA	1232
															CdiduA	1233
															CdiduA	1234

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY		PLANNED COMPLETION				P M F	RE U		RESOURCES		
	I	C	1Q	2Q	3Q	4Q	O C N	G H D	PY	NPF	TF	
										\$1000	\$1000	
DIVISION OF SURVEILLANCE, HAZARD EVALUATIONS AND FIELD STUDIES												D A 1237
												D A 1238
12. Industrywide Study of Reproductive Effects of Glycol Ethers (Howard Ludwig - 513-684-3255) (1.6/140.0/180.0)(100/VMH-Ahy-578)	82	83					A c a					DbhyyA 1239
												DbhyyA 1240
												DbhyyA 1241
A. Complete tripartite review.			o									DbhyyA 1242
B. Initiate walk-through surveys.				o								DbhyyA 1243
C. Complete walk-through surveys.					o							DbhyyA 1244
D. Complete industrial hygiene reports					o							DbhyyA 1245
E. Determine if epi/medical study is feasible.						o						DbhyyA 1246
F. Finalize protocol and establish milestones for future fiscal years (2Q83).												DbhyyA 1247
												DbhyyA 1248
												DbhyyA 1249
												DbhyyA 1250
13. Cytogenetic Epidemiologic Studies (Sandy Leffingwell - 513-684-2145) (0.8/165.0/180.0)(0.8/165.0/180.0)(100/VMH-Aay-565)	80	84					A b a					DbayyA 1253
												DbayyA 1254
												DbayyA 1255
												DbayyA 1256
A. Cytotoxic Drugs												DbayyA 1257
1. Complete sample collection (2Q81).												DbayyA 1258
2. Determine need for additional studies.				o								DbayyA 1259
3. Complete walk-through surveys, if needed.					o							DbayyA 1260
4. Establish milestones for next fiscal year.						o						DbayyA 1261
												DbayyA 1262
B. Portsmouth Naval Shipyard												DbayyA 1263
1. Complete protocol (3Q81).												DbayyA 1264
2. Submit RFC to OAMS for laboratory evaluations (210-82-),			o									DbayyA 1265
3. Complete arrangements with Navy.				o								DbayyA 1266
4. Award contract.						o						DbayyA 1267
5. Establish milestones for next fiscal year.							o					DbayyA 1268
												DbayyA 1269
												DbayyA 1270
C. Other Studies												DbayyA 1271
1. Select agent(s).				o								DbayyA 1272
2. Initiate cohort search.					o							DbayyA 1273
3. Complete SPRG review.						o						DbayyA 1274
4. Set milestones for remainder of project (2Q83).												DbayyA 1275
												DbayyA 1276

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY		PLANNED COMPLETION				P M F		R E U		O C N		G H D		PY		RESOURCES			
	I	C	1Q	2Q	3Q	4Q											NPF	TF		
																	\$1000	\$1000		
14. Medical, Reproductive and Industrial Hygiene Study of Exposure to Carbon Disulfide (Sherry Selevan - 513-684-2145) (100/VMH-Ahy-569)	79	82										A	c	a					DbhyyA	1279
																			DbhyyA	1280
																			DbhyyA	1281
																			DbhyyA	1282
A. Complete coding of pregnancy outcome questionnaires (3Q79).																			DbhyyA	1283
B. Complete subject notification (3Q80).																			DbhyyA	1284
C. Complete industrial hygiene reports (3Q81).																			DbhyyA	1285
D. Initiate final draft on reproductive and medical studies.																			DbhyyA	1286
E. Complete data analysis.																			DbhyyA	1287
F. Complete final report and submit abstract to Director, NIOSH and copy to DTS.																			DbhyyA	1288
																			DbhyyA	1289
																			DbhyyA	1290
15. The Effect of Polychlorinated Biphenyls on Reproductive Outcome (NCI)(Mike Rosenberg - 513-684-3593) (0.1/7.0/10.0)(VMH-Ayy-606)	81	84										A	b	e					DbyyyA	1293
																			DbyyyA	1294
																			DbyyyA	1295
																			DbyyyA	1296
A. Award contract 210-81-5102 (4Q81).																			DbyyyA	1297
B. Complete confirmation of cohort and categorization by exposure.																			DbyyyA	1298
C. Initiate case location and interviews.																			DbyyyA	1299
D. Complete 25% of interviews and confirm adverse outcomes.																			DbyyyA	1300
E. Complete 40% of interviews and confirm adverse outcomes.																			DbyyyA	1301
F. Complete 40% of interviews and confirm adverse outcomes.																			DbyyyA	1302
G. Complete interviews and confirm adverse outcomes (3Q83).																			DbyyyA	1303
H. Complete final report and submit abstract to Director, NIOSH and copy to DTS (1Q84).																			DbyyyA	1304
																			DbyyyA	1305
																			DbyyyA	1306
16. Fetal Mortality Study (Nina Lalich - 513-684-3284) (0.2/20.0/25.0)(100/VMO-Ayy-618)	77	83										A	g	a					DcyyyA	1309
																			DcyyyA	1310
																			DcyyyA	1311
A. Continue IA with NCHS (1Q78).																			DcyyyA	1312
B. Select and develop suitable analyses techniques (3Q79).																			DcyyyA	1313
C. Evaluate pre-test (1Q80).																			DcyyyA	1314
D. Complete case identification (3Q81).																			DcyyyA	1315
E. Complete IA modification and submit to OPPE (IA78-10).																			DcyyyA	1316
F. Complete follow-up for non-respondents.																			DcyyyA	1317
G. Complete data editing from mother's questionnaire.																			DcyyyA	1318
H. Complete data editing from hospital, physician and x-ray technician questionnaires.																			DcyyyA	1319
I. Complete final report and submit abstract to Director, NIOSH and copy to DTS (4Q83).																			DcyyyA	1320
																			DcyyyA	1321
																			DcyyyA	1322
																			DcyyyA	1323

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY				PLANNED COMPLETION				P M F			RESOURCES	
	I C		1Q	2Q	3Q	4Q	O C N			R E U		NPF	TF
							G	H	D	PY		\$1000	\$1000
17. Case Comparison Study of Parental Employment and Fetal Outcome (Joyce Salg - 513-684-3284) (100/VMO-Ayy-626)	81	82								A b a		DcyyyA	1326
												DcyyyA	1327
												DcyyyA	1328
												DcyyyA	1329
A. Award Contract 210-81-5004 (3Q81).												DcyyyA	1330
B. Select sample of live birth and fetal death certificates.				o								DcyyyA	1331
C. Complete abstraction, coding and verification.					o							DcyyyA	1332
D. Receive computer tape and documentation from contractor.						o						DcyyyA	1333
E. Complete final report and submit abstract to Director, NIOSH and copy to DTS.							o					DcyyyA	1334
												DcyyyA	1335
												DcyyyA	1336
18. Surveillance of Parental Employment and Spontaneous Abortion (Joyce Salg 513-684-3284) (0.1/7.0/10.0)(100/VMO-Ayy-643)	81	83								A b a		DcyyyA	1339
												DcyyyA	1340
												DcyyyA	1341
												DcyyyA	1342
A. Award contract 210-81-5002 (3Q81).												DcyyyA	1343
B. Complete data editing.				o								DcyyyA	1344
C. Complete statistical analyses.					o							DcyyyA	1345
D. Complete draft final report.						o						DcyyyA	1346
E. Obtain final report from contractor.							o					DcyyyA	1347
F. Complete final report and submit abstract to Director, NIOSH and copy to DTS (1Q83).												DcyyyA	1348
												DcyyyA	1349
												DcyyyA	1350
OFFICE OF EXTRAMURAL COORDINATION AND SPECIAL PROJECTS												F A	1352
												F A	1353
19. Research and Demonstration Grants - Reproductive (Moshell, 443-4493) (VCE-tXy-889)(0/0.5/0.5)(100/VCE-Ayy-899)	71	C								A e a		FayyyA	1354
												FayyyA	1355
												FayyyA	1356
												FayyyA	1357
												FayyyA	1358

NEUROTOXIC EFFECTS

Major episodes of neurotoxicity produced by occupational exposures (such as kepone, leptophos, polybrominated biphenyls) have dramatized the dangers of neurotoxic effects, but a far greater impact is seen in diverse exposures throughout industries where there are many minor episodes involving a much larger total number of workers (e.g., through use of solvents, pesticides, heavy metals). Industrial neurotoxins may produce effects ranging from mild to severe and include motor changes (inability to walk, tremors, loss of fine coordination), sensory changes (loss or diminution in vision, hearing, touch), and cognitive changes (loss of alertness, judgmental lapses, personality changes). Such effects are particularly serious because of the critical nature of the nervous system, the relative lack of excess capacity to replace lost tissue, and the irreversability of such effects. These neurotoxic effects represent not only major health problems but, prior to detection and treatment, they also may be a primary cause of workplace and off-the-job accidents. Further, it may be that the more insidious problems induced by chronic exposures lie undetected because the neurotoxicity is associated with advancing age rather than the cumulative effects of lifelong occupational exposure.

Division of Biomedical and Behavioral Sciences

DBBS research in neurobehavioral toxicology is directed toward the identification of chemical hazards, development and application of tests to uncover and characterize such effects, and reevaluation and development of standards based on neurotoxic endpoints. One study established an interaction between an industrial solvent, 2-ethoxyethanol, and ethanol, an interaction which affects offspring of pregnant rats exposed only during pregnancy. The results suggest that workplace exposures may interact with substances ingested outside regular work hours. Other studies have demonstrated adverse neurobehavioral effects of such chemicals as ethylene oxide and propylene oxide and the methyl halides.

In FY 1982, test batteries for workplace screening and evaluation of behavioral performance, psychological state, and neurophysiological functions that may be adversely affected by chemical exposures will be developed:

1. To assess the reliability and validity of such batteries, cross sectors of worker groups who have known exposures to certain chemicals and others without such a history will be evaluated on these tests.

2. Compounds representative of major chemical classes and found in many work settings will be brought into the laboratory for evaluation of their singular and interactive effects, using the same test batteries. Chemicals representative of fumigation and spray paint operations will be tested for neurobehavioral effects.
3. Worksite studies on fumigators and spray painters will be performed to evaluate the degree of neurologic impairment associated with workers' exposure conditions.

Division of Surveillance, Hazard Evaluations, and Field Studies

DSHEFS is considering several future epidemiologic studies to examine the neurotoxic effects of certain chemicals on exposed workers. Currently, this effort involves the identification of worker populations where there are exposures to chemicals that have been shown to be neurotoxic in laboratory animals, such as the class of hexanes. This effort is being conducted in collaboration with DBBS. As an ongoing effort, neurotoxic effects are being evaluated as one part of a cross-sectional medical study of workers exposed to carbon disulfide.

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY				PLANNED COMPLETION				P M F			RESOURCES				
	I	C	1Q	2Q	3Q	4Q	O	C	N	G	H	D	PY	\$1000	\$1000	
*****NEUROTOXIC EFFECTS*****																C 1361
																C 1362
DIVISION OF BIOMEDICAL AND BEHAVIORAL SCIENCE																A C 1363
																A C 1364
1. Test of Environmental Toxins on Behavior of Mice (706)--																A C 1365
4/30/83--\$74,002--W. Anger																A C 1366
																A C 1367
2. Occupational Hazards of Acrylamide and Hexane (851)--																A C 1368
4/30/83--\$94,839--W. Anger																A C 1369
																A C 1370
3. Chronobiology and Occupational Health Hazards (952)--																A C 1371
11/30/84--\$80,106--M. Colligan																A C 1372
																A C 1373
4. New Behavioral Tests for Occupational Solvent (973)--																A C 1374
11/30/84--\$80,106--M. Colligan																A C 1375
																A C 1376
5. Lead Exposure: Electrophysiologic/Psychologic Effects (984)--																A C 1377
3/31/83--\$116,7750--V. Putz																A C 1378
																A C 1379
6. Potentiation of Haloaklane Renal Injury by Ketones (986)--																A C 1380
3/31/84--\$52,398--T. Lewis--Digestive																A C 1381
																A C 1382

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	P M F				R E U		O C N		RESOURCES	
	FY				NPF		TF			
	I	C	1Q	2Q	3Q	4Q	G	H	D	PY
7. Indices of Neurotoxic Effects in Workers (K. Anger, 684-8383) (1.5/53.5/100.5)(1.5/165.5/212.5)(1.0/10.5/43.0) (1.0/1.0/33.5)(100/VOB-Chp-293) (100/VOB-Chp-294)	82	86					C	f	a	
.1 Submit progress report to Director, DBBS										AahpeC 1384
.2 Conference: Human Neurotoxicity Test Methods										AahpeC 1385
a. Receive IA from EPA										AahpeC 1386
b. Complete conference plan										AahpeC 1387
c. Hold conference										AahpeC 1388
d. Submit proceedings to Director, DBBS (2Q83)										AahpeC 1389
e. Publish proceedings (4Q83)										AahpeC 1390
.3 Lab and Field Studies										AahpeC 1391
a. Submit cooperative agreement to OAMS										AahpeC 1392
b. Award cooperative agreement										AahpeC 1393
c. Submit draft protocol to Director, DBBS										AahpeC 1394
d. Hold peer review										AahpeC 1395
e. Submit project protocol to HSRB (1Q83)										AahpeC 1396
f. Submit project protocol to OMB (1Q83)										AahpeC 1397
g. Receive HSRB clearance (1Q83)										AahpeC 1398
h. Receive OMB clearance (3Q83)										AahpeC 1399
i. Identify industries using neurotoxic chemicals (1Q83)										AahpeC 1400
j. Instrument test batteries (2Q83)										AahpeC 1401
k. Initiate laboratory tests of Cincinnati workers (3Q83)										AahpeC 1402
l. Conduct field tests for neurotoxin A (4Q83)										AahpeC 1403
m. Conduct field tests for neurotoxin B (2Q84)										AahpeC 1404
n. Conduct field tests for neurotoxin C (4Q84)										AahpeC 1405
o. Submit report on neurotoxin A to Director, DBBS (3Q84)										AahpeC 1406
p. Award second cooperative agreement (2Q84)										AahpeC 1407
q. Complete laboratory study of Cincinnati workers (1Q85)										AahpeC 1408
r. Conduct field tests for neurotoxin D (1Q85)										AahpeC 1409
s. Conduct field tests for neurotoxin E (3Q85)										AahpeC 1410
t. Conduct field tests for neurotoxin F (4Q85)										AahpeC 1411
u. Submit report on neurotoxins B, C to Director, DBBS (3Q85)										AahpeC 1412
v. Submit report on neurotoxins D,E,F to Dir., DBBS (4Q86)										AahpeC 1413
.4 Submit final project report to Director, DBBS (4Q86)										AahpeC 1414
.5 Submit abstract to Director, NIOSH (4Q86)										AahpeC 1415
.6 Submit project records to Q.A. Unit, DBBS (4Q86)										AahpeC 1416
										AahpeC 1417
										AahpeC 1418
										AahpeC 1419
										AahpeC 1420
										AahpeC 1421
										AahpeC 1422

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY				PLANNED COMPLETION				P M F			R E U			O C N			RESOURCES		
	I C		1Q	2Q	3Q	4Q	G H		D	PY	NPF	TF	\$1000		\$1000					
8. Neurobehavioral Methods for Toxic Agents (D. Chrislip 684-8383) (VOB-cAE-270)(2.0/22.2/70.0)(100/VOB-Chy-270)	79	83							C b a										AahyyC	1425
.1 Complete peer review (2Q80)																			AahyyC	1426
.2 Submit progress report to Director, DBBS			o	o	o	o													AahyyC	1427
.3 Methods Development - NCTR																			AahyyC	1428
a. Execute IA-year 1 (4Q81)																			AahyyC	1429
b. Execute IA-year 2				o															AahyyC	1430
c. Review progress reports				o		o													AahyyC	1431
d. Perform site visit				o		o													AahyyC	1432
e. Receive draft report on interlab comparisons (3Q83)																			AahyyC	1433
f. Submit report to Director, DBBS (4Q83)																			AahyyC	1434
.4 Individual Agent Screening																			AahyyC	1435
a. Receive protocol approval by Director, DBBS (3Q80)																			AahyyC	1436
b. Initiate TOCP and lithium exposures (3Q80)																			AahyyC	1437
c. Complete development of new neuromotor tests (4Q80)																			AahyyC	1438
d. Perform serial neurobehavioral tests (1,2,3,4Q81)			o	o	o	o													AahyyC	1439
e. Initiate AI administrations				o															AahyyC	1440
f. Perform serial neurobehavioral tests				o	o	o													AahyyC	1441
g. Complete TOCP and lithium testing (3Q83)																			AahyyC	1442
h. Complete AI testing (4Q83)																			AahyyC	1443
.5 Submit final project report to Director, DBBS (4Q83)																			AahyyC	1444
.6 Submit abstract to Director, NIOSH (4Q83)																			AahyyC	1445
.7 Submit project records to Q.A. Unit, DBBS (4Q83)																			AahyyC	1446
																			AahyyC	1447
																			AahyyC	1448
																			AahyyC	1449

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY		PLANNED COMPLETION				P M F R E U O C N			RESOURCES	
	I	C	1Q	2Q	3Q	4Q	G	H	D	PY	
9. Neurobehavioral Effects of Spray Paint Agents (V. Putz 684-8383) (VOB-cah-272)(2.0/50.0/87.5)(100/VOB-Chy-272)	79	83							C b a		
.1 Complete peer review (3Q79)											AahyyC 1452
.2 Instrument new cognitive tests (4Q79)											AahyyC 1453
.3 Acute Laboratory Studies											AahyyC 1454
a. Complete toluene exposures (3Q80)											AahyyC 1455
b. Complete MEK exposures (2Q81)											AahyyC 1456
c. Initiate new lab construction (3Q81)											AahyyC 1457
d. Complete MEK and toluene combined exposures (4Q81)											AahyyC 1458
e. Complete new lab				o							AahyyC 1459
f. Initiate acetone exposures					o						AahyyC 1460
g. Submit MEK & toluene report to Director, DBBS						o					AahyyC 1461
h. Complete acetone exposures						o					AahyyC 1462
i. Initiate MIBK exposures (1Q83)											AahyyC 1463
j. Complete MIBK exposures (2Q83)											AahyyC 1464
k. Initiate MIBK & Acetone exposures (2Q83)											AahyyC 1465
l. Complete combined exposures (3Q83)											AahyyC 1466
m. Submit report on MIBK & acetone to Director, DBBS (4Q83)											AahyyC 1467
.4 Worksite Study											AahyyC 1468
a. Award contract (4Q80)											AahyyC 1469
b. Complete worker testing (4Q81)											AahyyC 1470
c. Submit final report to Director, DBBS						o					AahyyC 1471
d. Submit abstract to Director, NIOSH						o					AahyyC 1472
.5 Submit progress report to Director, DBBS			o	o	o	o					AahyyC 1473
.6 Submit final project report to Director, DBBS (4Q83)											AahyyC 1474
.7 Submit abstract to Director, NIOSH (4Q83)											AahyyC 1475
.8 Submit project records to Q.A. Unit, DBBS (4Q83)											AahyyC 1476
											AahyyC 1477
											AahyyC 1478
											AahyyC 1479
											AahyyC 1480

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	P M F R E U O C N G H D										RESOURCES	
	FY		PLANNED COMPLETION									
	I C		1Q	2Q	3Q	4Q					NPF	TF
	I	C	1Q	2Q	3Q	4Q	G	H	D	PY	\$1000	\$1000
10. Neurotoxicity Evaluations of Fumigators (K. Anger 684-8383) (VOB-bAe-287)(1.2/110.0/150.0)(100/VOB-Ceh-287)	81	83					C	b	a			
.1 Complete peer review (2Q81)											AaehyC	1483
.2 Submit progress report to Director, DBBS											AaehyC	1484
.3 Methyl Bromide Worksite Study											AaehyC	1485
a. Submit study protocol to Director, DBBS (3Q81)											AaehyC	1486
b. Receive HSRB approval and OMB exemption (4Q81)											AaehyC	1487
c. Initiate testing of structural fumigators											AaehyC	1488
d. Complete worker testing											AaehyC	1489
e. Submit report on structural fumigators to Director, DBBS											AaehyC	1490
f. Initiate testing of soil fumigators (2Q83)											AaehyC	1491
g. Complete testing of soil fumigators (3Q83)											AaehyC	1492
h. Submit report on soil fumigators to Director, DBBS (4Q83)											AaehyC	1493
.4 Carbon Tetrachloride/CS2 Worksite Study											AaehyC	1494
a. Submit RFC to Director, DBBS and OAMS (4Q81)											AaehyC	1495
b. Award feasibility evaluation contract											AaehyC	1496
c. Submit feasibility contract report to Director, DBBS											AaehyC	1497
d. Submit study protocol to Director, DBBS											AaehyC	1498
e. Submit protocol to HSRB											AaehyC	1499
f. Receive HSRB approval											AaehyC	1500
g. Initiate testing of commodity fumigators (1Q83)											AaehyC	1501
h. Complete testing of 300 commodity fumigators (3Q83)											AaehyC	1502
i. Submit report on commodity fumigators to Director, DBBS (4Q83)											AaehyC	1503
.5 Submit final project report to Director, DBBS (4Q83)											AaehyC	1504
.6 Submit abstract to Director, NIOSH (4Q83)											AaehyC	1505
.7 Submit project records to Q.A. Unit, DBBS (4Q83)											AaehyC	1506
											AaehyC	1507
											AaehyC	1508
											AaehyC	1509
											AaehyC	1510
											AaehyC	1511

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY		PLANNED COMPLETION				P M F			RESOURCES	
	I C		1Q	2Q	3Q	4Q	R E U			NPF	TF
	I	C	1Q	2Q	3Q	4Q	G	H	D	PY	\$1000 \$1000
11. Neurotoxicity of Straight-Chain Hexacarbons (J. Russo, 684-8383) (1.5/176.8/223.8)(2.0/11.8/58.8)(1.5/10.8/61.3)(100/VOB-Chy-295)	82	86					C	c	a		
.1 Complete literature review				o						AahyyC	1514
.2 Complete peer review					o					AahyyC	1515
.3 Complete compound selection						o				AahyyC	1516
.4 Complete hazard information sheets						o				AahyyC	1517
.5 Initiate range finding studies for subchronic exposures						o				AahyyC	1518
.6 Submit RFC for neuropathology evaluations to Director, DBBS						o				AahyyC	1519
.7 Submit RFC to OAMS						o				AahyyC	1520
.8 Submit progress report to Director, DBBS			o	o	o	o				AahyyC	1521
.9 Complete range finding studies for subchronic exposures (1Q83)										AahyyC	1522
.10 Complete SOPs for subchronic exposure phase (1Q83)										AahyyC	1523
.11 Award contract for neuropathology evaluations (2Q83)										AahyyC	1524
.12 Initiate subchronic exposures (2Q83)										AahyyC	1525
.13 Conduct serial neurobehavioral tests (2,3,4Q83)										AahyyC	1526
.14 Complete subchronic exposures (4Q83)										AahyyC	1527
.15 Submit initial report to Director, DBBS (4Q83)										AahyyC	1528
.16 Complete SOPs for acute exposure phase (1Q84)										AahyyC	1529
.17 Initiate acute exposures (2Q84)										AahyyC	1530
.18 Conduct neurobehavioral tests (2,3,4Q84)										AahyyC	1531
.19 Complete acute exposures (4Q84)										AahyyC	1532
.20 Prepare tissue for neuropathology evaluations (1Q85)										AahyyC	1533
.21 Submit tissue for neuropathology evaluations (1Q85)										AahyyC	1534
.22 Complete neuropathology evaluations (2Q85)										AahyyC	1535
.23 Submit final contract report to Director, DBBS (3Q85)										AahyyC	1536
.24 Submit final project report to Director, DBBS (3Q85)										AahyyC	1537
.25 Submit abstract of final report to Director, NIOSH (3Q85)										AahyyC	1538
.26 Submit project records to Q.A. Unit, DBBS (4Q85)										AahyyC	1539
										AahyyC	1540
										AahyyC	1541
										AahyyC	1542
										AahyyC	1543
										AahyyC	1544

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY		PLANNED COMPLETION				P M F			RESOURCES					
	I	C	1Q	2Q	3Q	4Q	O	C	N	G	H	D	PY	NPF	TF
12. Neurotoxicity of Ethylene & Propylene Oxide (J. Setzer 684-8383) (VOB-cAh-264)(100/VOB-Chy-264)	78	82								C	c	a			
.1 Complete peer review (1Q78)														AahyyC	1547
.2 Complete baseline testing (1Q79)														AahyyC	1548
.3 Initiate inhalation exposures (3Q79)														AahyyC	1549
.4 Perform serial neurological tests (4Q79)(1Q-4Q80)(1Q81)														AahyyC	1550
.5 Submit neurochemistry RFC to Director, DBBS (2Q81)														AahyyC	1551
.6 Submit RFC to OAMS (2Q81)														AahyyC	1552
.7 Conduct final neurological tests (3Q81)														AahyyC	1553
.8 Perform terminal sacrifice (4Q81)														AahyyC	1554
.9 Award RFC for neuropathology (3Q81)														AahyyC	1555
.10 Submit progress report to Director, DBBS														AahyyC	1556
.11 Receive contractor's results														AahyyC	1557
.12 Complete final report														AahyyC	1558
.13 Submit final report to Director, DBBS														AahyyC	1559
.14 Submit abstract of final report to Director, NIOSH														AahyyC	1560
.15 Submit project records to Q.A. Unit, DBBS														AahyyC	1561
OFFICE OF EXTRAMURAL COORDINATION AND SPECIAL PROJECTS														F	C
														F	C
13. Research and Demonstration Grants - Neurotoxic Effects (Moshell, 443-4493) (0/0.7/0.7)(100/VCE-Cyy-892)	71	C								C	e	a		FayyyC	1562
														FayyyC	1563
														FayyyC	1564
														FayyyC	1565
														FayyyC	1566
														FayyyC	1567
														FayyyC	1568
														FayyyC	1569
														FayyyC	1570
														FayyyC	1571
														FayyyC	1572

INJURY/TRAUMA

Annually, approximately one of every ten workers employed in the private sector sustains an occupational injury. In the more hazardous industries the injury rate is significantly greater. In 1979, work accidents were responsible for 13,200 deaths; additionally, roughly 2.2 million workers experienced disabling injuries, of which 80,000 were permanently disabled. The economic impact of such workplace accidents is staggering. Data from SSA indicate the cost of workers' compensation payments to be approximately \$9.7 billion of which \$3.0 billion was for medical and hospitalization costs and \$6.7 billion was for wage compensation. These rapidly increasing costs are up 14 percent from the previous year and up 314 percent from 10 years ago. The 1978 indirect costs from occupational injuries including lost productivity were \$12.6 billion, an increase of 19 percent from 1977. Overall in 1979, workplace accidents cost our Nation \$27.3 billion, a figure representing 1.3 percent of the 1979 U. S. gross national product. This enormous toll in human and economic resources dictates the need for an intervention strategy designed to stimulate injury prevention in the workplace. By using a multidisciplinary approach, NIOSH is bringing to bear the necessary scientific tools and methodologies needed to favorably impact this drain on our national resources. Implementing epidemiologic techniques to define the causal factors involved and subsequently defining solutions designed to ameliorate such contributing factors is the basic thrust of the Institute's efforts.

Division of Safety Research

DSR is the focal point of the Institute's accident and injury prevention programs, with an overall mission to decrease the number and severity of occupationally related injuries. Functionally, the program is comprised of injury surveillance and epidemiology, injury prevention research, and technology applications. Primary responsibilities of the Division include:

1. Developing a national data base of occupationally related injuries, to better assess workplace risk and set priorities for research.
2. Designing and conducting safety research aimed at preventing or mitigating injury to workers.
3. Developing criteria for recommended safety practices.
4. Developing performance criteria for respirators and other items of personal protective equipment.

The Division will establish a stronger scientific basis for occupational safety research and give increased emphasis to moving research results from the laboratory to practical workplace application and demonstration.

Broad-based data sources for surveillance of occupational injuries will be used to describe the main features of work-injury patterns in the Nation and subsequently used as a basis for selecting research priorities, suggesting possible causal associations, measuring program impact, and providing baseline or background data for epidemiologic studies. Current priority areas have included manual materials handling, machine guarding techniques, and projects targeting fall accidents. To broaden its impact, DSR plans to stimulate and enlist the cooperation of numerous groups. To accomplish this, DSR will:

1. Stimulate occupational safety research through interaction with the few universities that have a capability and interest in occupational safety research.
2. Focus on specific groups of workers such as machinists, firefighters, building construction workers, and waste dump cleanup workers.
3. Extend surveillance and epidemiology into risk assessment to include cataloging of cases of job injuries and developing injury rates for various risk factors.

Division of Biomedical and Behavioral Sciences

DBBS research in this program area includes the investigation of job tasks, tools, and personal risk factors that precipitate and/or aggravate musculoskeletal disorders (e.g., low back injury, wrist disorders, tendonitis) and injuries, and the study of the job requirements that impact psychophysiologic functions of consequence to workers' health and safety. The development and application of control measures for preventing these problems include workplace and tool redesign.

Activities completed during FY 1981 included publication of a Work Practices Guide for Manual Materials Handling, which contains a basis for rating the hazard of overexertion in lifting tasks and means for risk reductions, documentation of successful intervention strategies for reducing the incidence of wrist disorders in selected jobs, and the design of a worksite indexing system in conjunction with NOHS-II for categorizing job tasks that pose risks to the musculoskeletal system. Proposed studies for FY 1982 will:

1. Focus on the effects of chronic trauma on light repetitive or sedentary work activities, particularly when the work period is extended or when workers are required to sit or stand in one place for long hours.
2. Apply the recommendations from research findings to workplace settings to demonstrate their effectiveness in reducing biomechanical hazards.
3. Identify worker groups and the extent of dermatologic disease produced by chronic physical trauma to the skin.

Division of Surveillance, Hazard Evaluations, and Field Studies

The DSHEFS surveillance program has adapted three national data sets--the NCHS Health Interview Survey, the SSA Disability Award File and Mortality Statistics, and State workmen's compensation award files for use in the assessment of work-related injury, disease, disability, and death. Of specific interest is an analysis of the 1969-1972 SSA Disability Award File for several occupational rubrics for which there is reason to suspect a relationship between trauma and disabilities of the musculoskeletal, nervous, or respiratory systems. A report will be available in early FY 1982 that will evaluate these possible relationships and, where found, will recommend steps for more definitive studies.

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY				PLANNED COMPLETION				P M F		R E U		O C N		G H D		PY		RESOURCES			
	I	C	1Q	2Q	3Q	4Q	G	H	D	PY	\$1000	\$1000										
*****INJURY/TRAUMA*****																					F	1575
																					F	1576
DIVISION OF BIONEDICAL AND BEHAVIORAL SCIENCE																					A	1577
																					A	1578
1. Methods for Detecting Cumulative Injury Risks (V. Putz 684-8383) (VOB-KEf-274)(1.0/245.0/270.0)(1.0/65.0/90.0)(100/VOB-Fyy-274)	81	84											F	c	a						AayyyF	1580
																					AayyyF	1581
																					AayyyF	1582
.1 Develop Chronic Trauma Checklist for 2nd NOHS (1Q81)																					AayyyF	1583
.2 Prepare position paper on Chronic Trauma (2Q81)																					AayyyF	1584
.3 Complete literature review																					AayyyF	1585
.4 Submit protocol to OD, DBBS for preliminary evaluation																					AayyyF	1586
.5 Complete peer review																					AayyyF	1587
.6 Obtain required HSRB SPRG/approval																					AayyyF	1588
.7 Complete initial worksite evaluations																					AayyyF	1589
.8 Prepare RFC for methods evaluations																					AayyyF	1590
.9 Submit RFC to OD, DBBS																					AayyyF	1591
.10 Review NOHS II data on prevalence of repetitive motion/tasks																					AayyyF	1592
.11 Submit monthly reports to OD, DBBS																					AayyyF	1593
.12 Submit RFC to OAMS (1Q83)																					AayyyF	1594
.13 Award methods contract (3Q83)																					AayyyF	1595
.14 Complete in-house laboratory methods (4Q83)																					AayyyF	1596
.15 Review/submit contractor's report to OD, DBBS (3Q84)																					AayyyF	1597
.16 Evaluate methods development in field (2Q84)																					AayyyF	1598
.17 Submit final project report to OD, DBBS (4Q84)																					AayyyF	1599
.18 Submit abstract to Director, NIOSH (4Q84)																					AayyyF	1600
.19 Submit project records to Q.A. Unit, DBBS (4Q84)																					AayyyF	1601
																					AayyyF	1602

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY				PLANNED COMPLETION				P M F			RESOURCES	
	I C				1Q 2Q 3Q 4Q				R E U			NPF TF	
									O C N			\$1000 \$1000	
2. Repetitive Lifting: Limiting Factors (D. Badger, 684-8286) (VOB-Kep-265)(0.3/3.0/11.5)(100/VOB-Fyy-265)	77	83							F	c	a		
.1 Complete peer review (1Q77)												AayyyF	1605
.2 Complete contract Physiological Responses on Repetitive Lifting (HSM-99-79-93)(4Q77)												AayyyF	1606
.3 Complete contract Physiological Responses of Women to Repetitive Lifting (210-77-0044)(4Q79)												AayyyF	1607
.4 Complete in-house testing of physiological responses of repetitive lifting (waist to shoulder lifts)(4Q80)												AayyyF	1608
.5 Submit progress report to Director, DBBS												AayyyF	1609
.6 Dynamic Strength Tests (contract 210-79-0041)												AayyyF	1610
a. Award contract (210-79-0041)(4Q79)												AayyyF	1611
b. Complete phase I (210-79-0041)(3Q80)												AayyyF	1612
c. Complete phase II (equipment design) (3Q81)												AayyyF	1613
d. Receive phase II report from contractor (3Q81)												AayyyF	1614
e. Receive HSRB clearance for phase III (subject testing) (4Q81)												AayyyF	1615
f. Begin phase III (subject testing) of contract (4Q81)												AayyyF	1616
g. Completion of phase III by contractor												AayyyF	1617
h. Submit final report to Director, DBBS												AayyyF	1618
i. Submit abstract to Director, NIOSH												AayyyF	1619
.7 Job Stress in Warehousing (210-81-6103)												AayyyF	1620
a. Award contract (4Q81)												AayyyF	1621
b. Review contractor's progress reports												AayyyF	1622
c. Initiate field evaluations												AayyyF	1623
d. Complete field evaluations												AayyyF	1624
e. Receive final report (2Q83)												AayyyF	1625
f. Submit final report to Director, DBBS (3Q83)												AayyyF	1626
g. Submit abstract to Director, NIOSH (3Q83)												AayyyF	1627
.8 Demonstration Project - SSA												AayyyF	1628
a. Initiate site analysis (4Q81)												AayyyF	1629
b. Complete site analysis												AayyyF	1630
c. Institute intervention strategy												AayyyF	1631
d. Complete evaluation of strategy												AayyyF	1632
e. Submit report to Director, DBBS and SSA												AayyyF	1633
f. Submit abstract to Director, NIOSH												AayyyF	1634
.9 Submit final project report to Director, DBBS (4Q83)												AayyyF	1635
.10 Submit abstract to Director, NIOSH (4Q83)												AayyyF	1636
.11 Submit project records to Q.A. Unit, DBBS (4Q83)												AayyyF	1637
												AayyyF	1638
												AayyyF	1639
												AayyyF	1640
												AayyyF	1641
												AayyyF	1642
												AayyyF	1643
												AayyyF	1644
												AayyyF	1645

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY				PLANNED COMPLETION				P M F R E U O C N G H D		RESOURCES	
	I C		1Q	2Q	3Q	4Q					NPF	TF
											\$1000	\$1000
3. Prevalence of Chronic Wrist Disorders (D. Habes 684-8286) (VOB-KEr-280)(0.5/10.0/20.0)(0.5/10.0/20.0)(100/VOB-Fyy-280)	81	84							F a a		AayyyF	1648
											AayyyF	1649
											AayyyF	1650
.1 Complete Project Peer Review (1Q81)											AayyyF	1651
.2 Case Demonstrations/Intervention Studies											AayyyF	1652
a. Submit FFS Ergonomic evaluation-Textile plant (3Q81)											AayyyF	1653
b. Review/submit to Director, DBBS report on Ergonomic Evaluation-Textile plant											AayyyF	1654
c. Submit FFS for Control/Intervention in Textile plant											AayyyF	1655
d. Review/submit final report to Director, DBBS on Textile Plant Intervention (4Q83)											AayyyF	1656
e. Submit FFS for Control/Intervention in Poultry plant (3Q81)											AayyyF	1657
f. Review/submit to Director, DBBS report on Intervention in Poultry Plant											AayyyF	1658
.3 Submit FFS-Development of Medical Model											AayyyF	1659
.4 Review/submit report on Medical Model to Dir., DBBS (3Q81)											AayyyF	1660
.5 Submit FFS Hazard Bulletin Development (2Q81)											AayyyF	1661
.6 Review/submit Hazard Bulletin to Director, DBBS and DTS											AayyyF	1662
.7 Chronic trauma-causal factors (contract)											AayyyF	1663
a. Submit RFC to OAMS (2Q81)											AayyyF	1664
b. Award contract (4Q81)											AayyyF	1665
c. Receive required clearances (contractor)											AayyyF	1666
d. Begin worksite testing jobs (1-4)											AayyyF	1667
e. Complete worksite testing jobs (1-4)(2Q83)											AayyyF	1668
f. Begin worksite testing jobs (5-9)(3Q83)											AayyyF	1669
g. Complete worksite testing jobs (5-9)(2Q84)											AayyyF	1670
h. Receive/review draft report (3Q84)											AayyyF	1671
i. Submit final report to Director, DBBS (4Q84)											AayyyF	1672
j. Submit abstract of final report to Director, NIOSH(4Q84)											AayyyF	1673
.8 Submit project records to Q.A. Unit, DBBS (4Q84)											AayyyF	1674
.9 Submit progress reports to Director, DBBS											AayyyF	1675
											AayyyF	1676
											AayyyF	1677
											AayyyF	1678
											AayyyF	1679
											AayyyF	1680
											E F	1682
											E F	1683
											E F	1684
											E F	1685
											E F	1686
DIVISION OF SAFETY RESEARCH												
4. Explosion Hazards Related to Grain and Feed Dusts (1122)-- 12/31/81--\$104,729--P. Bochnak--Injury and Trauma												

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY				PLANNED COMPLETION				P M F		R E U		O C N		PY		RESOURCES			
	I	C	1Q	2Q	3Q	4Q	G	H	D	PY	\$1000	\$1000								

6. Epidemiological Investigations of Lathe Injuries (Cleveland 923-7576) (VLB-bbN-808)(2.0/38.8/98.8)(100/VEa-FtN-808)	81	83								F	b	a							EatnyF	1717
.1 Submit RFC to Contracts Office (2Q80)																			EatnyF	1718
.2 Award contract (2Q81)																			EatnyF	1719
.3 Evaluate contractor's proposed project timetable (1Q81)																			EatnyF	1720
.4 Conduct 1 month NEISS Trial Run (to evaluate system's ability to provide accidents) (1Q81)																			EatnyF	1721
.5 Complete contingency plans for accessing additional in- scope accidents from BLS (4Q81)																			EatnyF	1722
.6 Develop final in-scope accident definition (4Q81)																			EatnyF	1723
.7 Submit purchase orders for additional data from State Worker's Compensation Agencies																			EatnyF	1724
.8 Develop and approve accident investigation procedure, including the AIM questionnaire and consent form to comply with Privacy Act																			EatnyF	1725
.9 Develop case-control matching procedure																			EatnyF	1726
.10 Submit OMB Clearance documentation on accident investigation and investigation AIM questionnaire																			EatnyF	1727
.11 Review pretest accident investigation procedure & questionnaire on nine subjects																			EatnyF	1728
.12 Review first 175 case-control investigations (1Q83)																			EatnyF	1729
.13 Review contractor's interim report on first 175 investiga- tions and make any necessary modifications (1Q83)																			EatnyF	1730
.14 Complete second 175 case control investigations (2Q84)																			EatnyF	1731
.15 Review contractor's final report (3Q83)																			EatnyF	1732
.16 Publish final report and conduct in-house seminar (4Q84)																			EatnyF	1733
																			EatnyF	1734
																			EatnyF	1735
																			EatnyF	1736
																			EatnyF	1737
																			EatnyF	1738
																			EatnyF	1739
																			EatnyF	1740
																			EatnyF	1741
																			EatnyF	1742
																			EatnyF	1743
																			EatnyF	1744

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY				P M F				R E U				RESOURCES	
	PLANNED COMPLETION				O C N				NPF TF					
	I	C	1Q	2Q	3Q	4Q	G	H	D	PY	\$1000	\$1000		
7. Worker -Identified Hazard Control System (Cleveland 923-7576) (VLB-abm-809)(0.5/18.2/33.2)(100/VEa-Fst-809)	81	84							F	b	a		EastyF	1747
.1 Submit RFC to contract office (2Q80)													EastyF	1748
.2 Review and approve contractor timetable (1Q81)													EastyF	1749
.3 Award contract 2Q81													EastyF	1750
.4 Review literature 4Q81													EastyF	1751
.5 Approve plant selection													EastyF	1752
.6 Review the design of the interview questionnaire and methodology													EastyF	1753
.7 Submit questionnaire to OMB and Human Subjects Review Board													EastyF	1754
.8 Review the design of the monetary and attitudinal evaluation criteria													EastyF	1755
.9 Approve survey start after OMB clearance is obtained													EastyF	1756
.10 Review monetary and attitudinal evaluation data (3Q83)													EastyF	1757
.11 Evaluate data and review contractor's final report (4Q83)													EastyF	1758
.12 Present internal evaluation of findings to Division Director and staff (4Q83)													EastyF	1759
.13 Write and submit article for publication (1Q84)													EastyF	1760
8. NEISS Occupationally Related Data Sharing (Gustin 923-7576) (VLB-abN-814)(0.5/270.0/285.0)(100/VEa-FNy-814)	80	C							F	b	a		EastyF	1761
.1 Sign IAA-NIOSH & CPSC (4Q80)													EastyF	1762
.2 Initiate NEISS one month trial (1Q81)													EastyF	1763
.3 Evaluate trial results & report to Director, DSR (2Q81)													EastyF	1764
.4 Submit second IAA-NIOSH agreement (2Q81)													EastyF	1765
.5 Write IAA-NIOSH & CPSC for FY82 (4Q81)													EastyF	1766
.6 Report on success of FY81 effort to Director, DSR													EastyF	1767
.7 Complete evaluation of 6 months' (FY82) accumulated data, submit report to Director, DSR													EastyF	1768
.8 Submit 1st annual surveillance report for publication as NIOSH report													EastyF	1769
.9 Report to Director on continuing project for FY-83 (1Q83)													EastyF	1770
													EastyF	1771
													EastyF	1772
													EastyF	1773
													EastyF	1774
													EastyF	1775
													EastyF	1776
													EastyF	1777
													EastyF	1778
													EastyF	1779
													EastyF	1780
													EastyF	1781
													EastyF	1782
													EastyF	1783

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY		PLANNED COMPLETION				P M F			RESOURCES		
	I	C	1Q	2Q	3Q	4Q	O	C	N	NPF	TF	
							G	H	D	PY	\$1000	\$1000
9. BLS Work Injury Report Surveys (Coleman 923-7576) (VLB-abN-813)(1.0/190.0/220.0)(100/VEa-FsN-813) .1 Submit reports to Director, DSR on surveys of: a. Equipment Servicing Injuries b. Back Injuries c. Amputations .2 Submit RFA to Contracts Office for Inter-Agency Agreement with BLS to fund future surveys .3 Solicit DSR needs and prepare report for FY82 surveys .4 Attend 4 planning meetings for FY82 surveys and FY81 results	77	C					F	g	a		EasNyF	1786
											EasNyF	1787
											EasNyF	1788
											EasNyF	1789
											EasNyF	1790
											EasNyF	1791
											EasNyF	1792
											EasNyF	1793
											EasNyF	1794
											EasNyF	1795
											EasNyF	1796
											EasNyF	1797
10. Study of Falls Involved with Pushing and Pulling Tasks (Pizatella 923-7454) (VLD-kbN-820)(0.8/4.0/28.0)(100/VEa-FsN-820) .1 Contract awarded 3Q81) .2 Obtain HSRB approval for laboratory experiments .3 Complete development of biomechanical model .4 Complete laboratory pushing experiments .5 Complete laboratory pulling experiments (1Q83) .6 Complete workplace validatings (2Q83) .7 Submit final report for review (2Q83) .8 Complete approvals for publication of final report (3Q83) .9 Transmit abstract to Director, NIOSH (4Q83) .10 Submit for journal publication (4Q83)	81	83					F	b	a		EbsNyF	1800
											EbsNyF	1801
											EbsNyF	1802
											EbsNyF	1803
											EbsNyF	1804
											EbsNyF	1805
											EbsNyF	1806
											EbsNyF	1807
											EbsNyF	1808
											EbsNyF	1809
											EbsNyF	1810
											EbsNyF	1811
											EbsNyF	1812
											EbsNyF	1813
11. Allowable Loads for a Multi-Story Concrete Structure (Parsons 923-7454) (VLD-gbq-827)(1.2/3.0/39.0)(100/VEb Fsy-827) .1 Submit requisition for lab computer (1Q81) .2 Complete development of two dimensional Macro Element Model (2Q81) .3 Complete computer program (3Q81) .4 Submit paper for review and approvals .5 Complete approvals and submit for publication .6 Complete 2-dimensional model .7 Rewrite program for mini computer .8 Submit paper on 2-D model for review .9 Complete approvals and submit for publication .10 Complete literature search on shoring (1Q83) .11 Have shoring scheme developed (2Q83) .12 Have final computer program written (3Q83) .13 Submit paper on excavation shoring computer program for publication (4Q83)	81	83					F	b	a		EbsyyF	1816
											EbsyyF	1817
											EbsyyF	1818
											EbsyyF	1819
											EbsyyF	1820
											EbsyyF	1821
											EbsyyF	1822
											EbsyyF	1823
											EbsyyF	1824
											EbsyyF	1825
											EbsyyF	1826
											EbsyyF	1827
											EbsyyF	1828
											EbsyyF	1829
											EbsyyF	1830
											EbsyyF	1831
											EbsyyF	1832
											EbsyyF	1833
											EbsyyF	1834

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY				PLANNED COMPLETION				P M F			RE U		O C N		RESOURCES	
	I C				1Q 2Q 3Q 4Q				G H D			PY		NPF TF		\$1000 \$1000	
12. Methods for Determining In-Situ Strength of Concrete (Parsons 923-7454) (VLD-gbq-826)(1.0/2.5/32.5)(100/VEb-Fsy-826)	80	83							F	b	a					EbsyyF	1837
.1 Award contract 210-80-0036 (4Q80)																EbsyyF	1838
.2 Conduct review meeting (1Q80)																EbsyyF	1839
.3 Obtain SPRG clearance and complete Phase I (3Q81)																EbsyyF	1840
.4 Start Phase II (Data collection and analysis (4Q81)																EbsyyF	1841
.5 Report on scaffolding and submit new project for FY-83																EbsyyF	1842
.6 Visit local construction sites																EbsyyF	1843
.7 Receive interim reports on experimental results																EbsyyF	1844
.8 Review final report on in-situ strength (1Q83)																EbsyyF	1845
.9 Submit report for publication (3Q83)																EbsyyF	1846
																EbsyyF	1847
																EbsyyF	1848
																EbsyyF	1849
13. Stairway Design for Reducing Fall Injuries (Jensen 923-7454) (VLD-kbN-839)(100/VEb-FsN-839)	79	82							F	b	a					EbsNyF	1852
.1 Contract 210-79-0020 awarded to Georgia Tech (4Q79)																EbsNyF	1853
.2 Completed analysis of injury data to identify high risk industries (3Q80)																EbsNyF	1854
.3 Report from contractor on injury data (4Q80)																EbsNyF	1855
.4 Complete video taping of first ten stairways (Phase II) (1Q81)																EbsNyF	1856
.5 Contractor report on Phase II approved by NIOSH (4Q81)																EbsNyF	1857
.6 Submit contract modification to OAMS																EbsNyF	1858
.7 Initiate video taping second group of stairs																EbsNyF	1859
.8 Complete video taping of second group of ten stairways																EbsNyF	1860
.9 Receive draft final report																EbsNyF	1861
.10 Complete review of final report																EbsNyF	1862
.11 Transmit abstract to Director, NIOSH																EbsNyF	1863
.12 Submit report for publication																EbsNyF	1864
																EbsNyF	1865
																EbsNyF	1866
																EbsNyF	1867
																EbsNyF	1868

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	P M F				R E U				RESOURCES			
	FY				O C N				NPF TF			
	I C				G H D				PY			
	1Q 2Q 3Q 4Q								\$1000 \$1000			
14. Long Term Effects of Learned Safety Skills (Jensen 923-7454) (VLD-kbN-835)(100/VEb-FNy-835)	79	82					F b a					
.1 Contract 210-79-0018 awarded (4Q79)											EbNyyF	1871
.2 Completed pilot study (3Q80)											EbNyyF	1872
.3 Initiate behavioral monitoring (4Q80)											EbNyyF	1873
.4 Complete employee training (1Q81)											EbNyyF	1874
.5 Complete behavioral monitoring (3Q81)											EbNyyF	1875
.6 Complete data analysis (4Q81)											EbNyyF	1876
.7 Receive draft final report from contractor			o								EbNyyF	1877
.8 Complete technical review (evaluate & edit)				o							EbNyyF	1878
.9 Submit approved final report to NTIS				o							EbNyyF	1879
.10 Transmit abstract to Director, NIOSH					o						EbNyyF	1880
.11 Prepare manuscript for journal publication						o					EbNyyF	1881
.12 Complete technical review of manuscript for journal							o				EbNyyF	1882
.13 Final publication approval from Director, NIOSH							o				EbNyyF	1883
.14 Submit manuscript for publication in appropriate journal							o				EbNyyF	1884
											EbNyyF	1885
											EbNyyF	1886
											EbNyyF	1887
											EbNyyF	1888
											EbNyyF	1889
15. Controlling Overexertion Injuries Through Task Design (Jensen 923-7454) (VLD-kbN-834)(100/VEb-FNy-834)	79	82					F b a				EbNyyF	1890
.1 Award contract 210-79-0022 (4Q79)											EbNyyF	1891
.2 Obtained required clearances (Phase I) (1Q80)											EbNyyF	1892
.3 Initiated data collection (2Q80)											EbNyyF	1893
.4 Complete collection and analysis of data (4Q81)											EbNyyF	1894
.5 Receive draft final report from contractor			o								EbNyyF	1895
.6 Complete technical review (evaluate & edit of final report)				o							EbNyyF	1896
.7 Submit approved final report to NTIS				o							EbNyyF	1897
.8 Transmit abstract to Director, NIOSH					o						EbNyyF	1898
.9 Prepare manuscript for journal publication						o					EbNyyF	1899
.10 Complete technical review of manuscript for journal publication							o				EbNyyF	1900
.11 Submit manuscript for publication in appropriate journal								o			EbNyyF	1901
											EbNyyF	1902
											EbNyyF	1903
											EbNyyF	1904
											EbNyyF	1905
											EbNyyF	1906
											EbNyyF	1907
											EbNyyF	1908

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY				PLANNED COMPLETION				P M F R E U O C N			RESOURCES	
	I C		1Q	2Q	3Q	4Q	G H D	PY	NPF TF			\$1000	\$1000
16. Hand Speed Study of Press Operators (Pizatella 923-7454) (VLD-kbm-829)(100/VEb-Fty-829) .1 Obtain RSRB approval for pilot study (1Q81) .2 Complete data collection (3Q81) .3 Complete data analysis (4Q81) .4 Draft report on pilot study (4Q81) .5 Complete technical review of paper .6 Complete revision of paper .7 Obtain final approval for paper .8 Submit for conference presentation .9 Design and develop experimental protocol for full study; submit as a new project for FY83	80	82					F b a		EbtyyF	1911			
									EbtyyF	1912			
									EbtyyF	1913			
									EbtyyF	1914			
									EbtyyF	1915			
									EbtyyF	1916			
									EbtyyF	1917			
									EbtyyF	1918			
									EbtyyF	1919			
									EbtyyF	1920			
									EbtyyF	1921			
									EbtyyF	1922			
									EbtyyF	1923			
									EbtyyF	1924			
17. Study of OSHA's Experimental Variance on Power Presses (Etherton 923-7454) (VLD-kbN-830)(100/VEb-FtN-830) .1 Contract awarded (4Q80) .2 Completed collection of European data (3Q81) .3 Completed review of Interlake records (3Q81) .4 Completed stress evaluations of Interlake workers (4Q81) .5 Contractor's recommendations on the variance received (4Q81) .6 Present recommendations to OSHA .7 Contract modification .8 Report on inspection criteria .9 Review and evaluate reports .10 Submit for publication or NTIS as appropriate	81	82					F b a		EbtNyF	1927			
									EbtNyF	1928			
									EbtNyF	1929			
									EbtNyF	1930			
									EbtNyF	1931			
									EbtNyF	1932			
									EbtNyF	1933			
									EbtNyF	1934			
									EbtNyF	1935			
									EbtNyF	1936			
									EbtNyF	1937			
									EbtNyF	1938			
									EbtNyF	1939			
									EbtNyF	1940			
									EbtNyF	1941			
18. Assessment of Musculoskeletal Injury Data (Jensen 923-7454) VLD-abN-833)(100/VEb-FyN-833) .1 Search BLS-SDS data tapes (1Q81) .2 Draft report on wrist injuries (2Q81) .3 Complete review of report (4Q81) .4 Obtain final NIOSH approval to publish report .5 Obtain WIR back injury survey data from BLS .6 Search BLS-SDS data tapes for back injuries .7 Complete analysis of back injury data .8 Draft report on back injuries .9 Complete technical reviews of back injury report .10 Obtain final NIOSH approval to publish report .11 Transmit abstract to Director, NIOSH .12 Submit back injury paper for publication .13 Participate in meetings of the NIOSH Working Group on Ergonomics and Trauma	81	82					F a a		EbyyNF	1944			
									EbyyNF	1945			
									EbyyNF	1946			
									EbyyNF	1947			
									EbyyNF	1948			
									EbyyNF	1949			
									EbyyNF	1950			
									EbyyNF	1951			
									EbyyNF	1952			
									EbyyNF	1953			
									EbyyNF	1954			
									EbyyNF	1955			
									EbyyNF	1956			
									EbyyNF	1957			
									EbyyNF	1958			
									EbyyNF	1959			
									EbyyNF	1960			

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY				PLANNED COMPLETION				P M F			RE U		O C N		RESOURCES	
	I	C	1Q	2Q	3Q	4Q	G	H	D	PY	\$1000	\$1000	NPF	TF			
19. Analysis for Safety of Foot Operated Machinery (Etherton 923-7454) (VLD-kbm-828)(1.0/5.0/35.0)(100/VEb-Fty-828) .1 RFC to OAMS (2Q81) .2 Review of proposals completed (4Q81) .3 Submit concept memo for approval by Director, NIOSH .4 Award contract .5 SPRG review completed .6 Experiment protocol completed .7 HSRB approval .8 Data collection completed .9 Draft paper detailing the experimental results completed (1Q83) .10 Submit for approval by Director's office a paper detailing the experimental results (2Q83) .11 Receive draft of a paper on safer foot pedal applica- tions (3Q83) .12 Approval by Director's office of a paper on safer foot pedal applications (4Q83) .13 Submission to journals of two papers (4Q83)	81	83							F	b	a				EbtyyF 1963 EbtyyF 1964 EbtyyF 1965 EbtyyF 1966 EbtyyF 1967 EbtyyF 1968 EbtyyF 1969 EbtyyF 1970 EbtyyF 1971 EbtyyF 1972 EbtyyF 1973 EbtyyF 1974 EbtyyF 1975 EbtyyF 1976 EbtyyF 1977 EbtyyF 1978 EbtyyF 1979 EbtyyF 1980 EbtyyF 1981 EbtyyF 1982 EbtyyF 1983		
20. Design of Containers to Minimize Biomechanical Stress (Pizatella 923-7454) (VLD-kbN-837)(0.5/2.0/17.0)(100/VEb-FyN-837) .1 Submitted RFC to OAMS (2Q81) .2 Submit concept memo for approval by Director .3 Obtain SPRG clearance .4 Obtain HSRB clearance .5 Initiate data collection .6 Complete main experiments (1Q83) .7 Complete validation experiments (2Q83) .8 Receive draft final report (3Q83) .9 Complete review of final report (4Q83) .10 Transmit abstract to Director, NIOSH (4Q83) .11 Submit paper to journal (4Q83)	81	83							F	b	a				EbyNyF 1986 EbyNyF 1987 EbyNyF 1988 EbyNyF 1989 EbyNyF 1990 EbyNyF 1991 EbyNyF 1992 EbyNyF 1993 EbyNyF 1994 EbyNyF 1995 EbyNyF 1996 EbyNyF 1997 EbyNyF 1998 EbyNyF 1999 EbyNyF 2000 EbyNyF 2001		
OFFICE OF EXTRAMURAL COORDINATION AND SPECIAL PROJECTS																F F 2003 F F 2004	
21. Research and Demonstration Grants - Injury/Trauma (Moshell, 443-4493) (0/0.3/0.3)(100/VCE-Fyy-890)	71	C							F	e	a					FayyyF 2005 FayyyF 2006 FayyyF 2007 FayyyF 2008	

LUNG DISORDERS

It has long been recognized that emphysema, which is the leading cause of respiratory deaths in the United States, has an increased incidence in populations exposed to dusty or chemical-laden environments. Lung cancer, which is the second leading cause of respiratory deaths, has been connected with occupational exposures of carcinogenic material. The morbidity and mortality of these diseases, plus occupational exposures which lead to the development of lung disorders such as asthma, bronchitis, allergic alveolitis, interstitial fibrosis, pneumoconiosis, and other airways diseases, show the importance of requiring research in respiratory disease if NIOSH is to carry out its mission of protecting the health of the American worker.

The major areas for research in lung disorders within the Institute are:

1. Non-fibrous minerals.
2. Fibrous minerals.
3. Organic dusts, chemicals, and biological products.
4. Methods development for measuring pulmonary mechanics and lung function in humans and animals.

The respiratory disease program within the Institute is multidisciplinary, and interrelates with other Institute areas such as surveillance, mutagenicity, respirator use, energy, and HHEs. The environmental, laboratory, and epidemiologic research of the Institute are all coordinated within this program, with primary responsibility residing within DRDS.

Division of Respiratory Disease Studies

The major components of the Division program for the study of lung disorders includes laboratory-based research upon physiological mechanisms and the effect of various challenge agents upon lung mechanics and pulmonary function. Research is conducted that relates to coal and non-coal mining, fibrous minerals such as asbestos, and a variety of organic dusts, industrial chemicals, and biological products that are found in the workplace environment. Multiple morbidity and mortality studies are underway, and environmental data collected, to assist in the development of dose-response information which can then be translated into information of direct benefit to the worker.

The objective of the NIOSH Emerging Energy Industries Program is the prevention of OSH hazards in new energy industries. U.S. energy production is projected to increase by 30 to 40 percent in the next 20 years. Much of this increased production will involve new technologies for which occupational health hazards are unknown, and for which epidemiologic data for health assessment are unavailable.

The program strategy is to use industrial hygiene characterization and coordinated biological studies of pilot plants and initial demonstration plants or commercial plants, to provide guidance for process design, engineering modifications, and workplace controls for hazard prevention prior to extensive commercial deployment of the new technologies. This information also will provide a basis for subsequent medical surveillance and epidemiologic efforts to ensure the adequacy of the initial prevention measures.

In FY 1981, the following tasks were accomplished:

1. A program plan was developed, establishing the program strategy and providing for coordination of industrial hygiene, bioassay, medical surveillance, epidemiologic, and control technology studies.
2. Industrial hygiene characterizations of six selected resource recovery facilities that use wastes for combustion fuel was completed, including characterization of viral hazards. A comprehensive review and recommendations report is in preparation.
3. Industrial hygiene studies of fluidized bed coal combustion were initiated, the field studies to be completed in FY 1982.
4. Industrial hygiene characterization studies of the three generic types of coal gasifiers were completed. Studies of selected downstream fuel gas cleanup system operations were initiated and scheduled for completion in FY 1984. In FY 1982, the first comprehensive industrial hygiene review and recommendations report on coal gasification based on NIOSH field studies will be drafted.
5. Industrial hygiene characterization studies were completed on the three major direct coal-liquefaction process pilot facilities. Additional field studies will be completed in FY 1982, characterizing operations on Western coals and characterizing plant "turnarounds." In FY 1982 the first comprehensive industrial hygiene review and recommendations report on direct coal liquefaction based on NIOSH field studies will be written.

6. Industrial hygiene characterization of two modes of coal-fired utility power plant operation was completed. And data collection was completed for a mortality epidemiologic study of workers at those plants. Analysis of the data will be completed in FY 1982.
7. A report presenting initial recommendations for medical surveillance of workers at synfuel plants was prepared for review and publication.
8. A bioassay protocol for worker urine and blood bioassays and for workplace environmental sample cytogenetic and cytotoxicity bioassays was developed. The protocol is being submitted for clearance for use with planned conventional industrial hygiene studies.
9. Discussions were held with trade associations and State health department representatives to plan a prospective epidemiologic registry for synfuel workers. Development of the registry in cooperation with other involved groups will begin in FY 1982.
10. Plans were developed for industrial hygiene characterizations of oil shale mining and of above-ground and modified in situ shale oil retorting. The field studies begin in FY 1982 and continue through FY 1984. Morbidity and mortality epidemiologic studies of oil shale workers at the Anvil Points facility were previously completed.

New efforts in FY 1982 will include:

1. Retrospective mortality epidemiologic feasibility studies of four domestic synfuel production experiences.
2. Characterization of fugitive emissions from primary plant component sources.
3. Industrial hygiene characterization of advanced fossil fuel utilization technologies.

Division of Surveillance, Hazard Evaluations, and Field Studies

As part of DSHEFS' retrospective cohort mortality, proportionate mortality, and case control studies, nonmalignant respiratory disease is evaluated. In FY 1981, no final results were produced that showed any significant findings in this area.

Division of Safety Research

The DSR program in mining consists of legislatively mandated programs to test and certify respirators and coal mine personal dust samplers. In addition a new effort is proposed to actively monitor BOM-sponsored research to identify technology that also could be useful for reducing injury risks in non-mining workplaces.

Office of Extramural Coordination and Special Projects

OECSP proposes development of an occupational lung disease pathology registry.

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY				PLANNED COMPLETION				P M F R E U O C N G H D		RESOURCES	
	I C		1Q	2Q	3Q	4Q					PY	NPF TF \$1000 \$1000
*****LUNG DISORDERS*****												I 2011
												I 2012
DIVISION OF BIOMEDICAL AND BEHAVIORAL SCIENCE												A I 2013
												A I 2014
1. Safe Decompression Schedules of Caisson Workers (947)--												A I 2015
1/31/83--\$60,951--()												A I 2016
												A I 2017
2. Human Metabolism of Halothane--Mechanisms of Toxicity (978)--												A I 2018
8/31/83--\$94,074--H. Plotnick.												A I 2019
												A I 2020
3. Chronic Toxicity of Insulation Materials (W. Moorman, 684-8275)	78	82						I a a				AcgvyI 2022
(V00-cBi-327)(100/V00-Igy-312)												AcgvyI 2023
												AcgvyI 2024
.1 Complete peer review (1Q78)												AcgvyI 2025
.2 Submit RFC to contract office (2Q78)												AcgvyI 2026
.3 Award contract (210-78-0037) (4Q78)												AcgvyI 2027
.4 Complete baseline biological testing (2Q79)												AcgvyI 2028
.5 Initiate inhalation exposures (3Q79)												AcgvyI 2029
.6 Consult Information Office (1Q80)												AcgvyI 2030
.7 Complete 9-month pulmonary function testing (2Q80)												AcgvyI 2031
.8 Submit contractor's progress report to Director, DBBS												AcgvyI 2032
.9 Complete 18-month exposure regimen (1Q81)												AcgvyI 2033
.10 Complete terminal sacrifice of rats and monkeys (1Q81)												AcgvyI 2034
.11 Complete pathology of monkeys (3Q81)												AcgvyI 2035
.12 Complete pathology of rats												AcgvyI 2036
.13 Review draft of final report												AcgvyI 2037
.14 Submit final report to Director, DBBS												AcgvyI 2038
.15 Submit abstract to Director, NIOSH												AcgvyI 2039
.16 Submit project records to Q. A. Unit, DBBS												AcgvyI 2040
												AcgvyI 2041

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY	I	C	1Q	2Q	3Q	4Q	G	H	D	P	M	F	R	E	U	RESOURCES					
																	O	C	N	PY	\$1000	\$1000
4. Pulmonary Hypersensitivity:Industrial Metals(R Biagini 684-8275) (V00-cDv-329)(1.4/59.5/99.5)(100/V00-Iyy-329)	79	83												I	c	a			AcyyyI 2044			
																			AcyyyI 2045			
																			AcyyyI 2046			
.1 Complete peer review (1Q79)																			AcyyyI 2047			
.2 Submit final protocol to Director, DBBS (1Q79)																			AcyyyI 2048			
.3 Initiate sensitization exposures (4Q79)																			AcyyyI 2049			
.4 Complete Pt exposures (4Q80)																			AcyyyI 2050			
.5 Complete acid co-asthmogen IT exposures (2Q81)																			AcyyyI 2051			
.6 Complete development of aerosol sizing equipment (4Q81)																			AcyyyI 2052			
.7 Whole-body Pt/Cl2 exposures																			AcyyyI 2053			
a. Initiate exposures																			AcyyyI 2054			
b. Complete exposures																			AcyyyI 2055			
c. Initiate Pt challenge																			AcyyyI 2056			
d. Complete Pt challenge																			AcyyyI 2057			
e. Submit report to Director, DBBS																			AcyyyI 2058			
.8 Whole-body Vanadium/O3 Exposures																			AcyyyI 2059			
a. Prepare draft protocol																			AcyyyI 2060			
b. Submit protocol to Director, DBBS																			AcyyyI 2061			
c. Prepare HDS																			AcyyyI 2062			
d. Initiate metacholine and V challenges																			AcyyyI 2063			
e. Complete metacholine and V challenges																			AcyyyI 2064			
f. Initiate V/O3 exposures																			AcyyyI 2065			
g. Complete V/O3 exposures (1Q83)																			AcyyyI 2066			
h. Submit report to Director, DBBS (2Q83)																			AcyyyI 2067			
.9 Submit progress report to Director, DBBS																			AcyyyI 2068			
.10 Submit final project report to Director, DBBS (3Q83)																			AcyyyI 2069			
.11 Submit abstract to Director, NIOSH (3Q83)																			AcyyyI 2070			
.12 Submit project records to Q. A. Unit, DBBS (3Q83)																			AcyyyI 2071			
																			AcyyyI 2072			
DIVISION OF RESPIRATORY DISEASE STUDIES																			C I 2074			
																			C I 2075			
5. M. Faeni: An Occupational Cause of Pulmonary Fibrosis (992)--8/31/83--\$48,500--S. Olenchok																			C I 2076			
																			C I 2077			
																			C I 2078			

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY				PLANNED COMPLETION				P M F R E U O C N			RESOURCES	
	I C		1Q	2Q	3Q	4Q	G H D	PY	NPF TF			\$1000	\$1000
6. Epi/Env Study of Coal Miners Exposed to Diesel Emissions (Rager R 304-599-7476)(4.0/70.0/190.0)(3.0/50.0/155.0) (100/VCa-Imm-179)	82	84					I c b		CammyI	2080			
									CammyI	2081			
									CammyI	2082			
									CammyI	2083			
.1 Submit materials for HSRB, SPRG, FRA, and peer review									CammyI	2084			
.2 Develop environmental and medical protocol for follow-up									CammyI	2085			
.3 Conduct walk-thrus and negotiations with companies									CammyI	2086			
.4 Finalize environmental and medical protocol									CammyI	2087			
.5 Conduct field medical examinations and environmental surveys (1Q,2Q,3Q,4Q83)									CammyI	2088			
.6 Collate materials with data from original survey (1Q84)									CammyI	2089			
.7 Analyze data and write report (2Q,3Q84)									CammyI	2090			
.8 Submit abstract and final report to Director, NIOSH with copy of report and abstract to DTS (4Q84)									CammyI	2091			
									CammyI	2092			
									CammyI	2093			
									CammyI	2094			
7. IH/Epidemiology/Control Technology of Ceramic Workers (Gamble J 304-599-7476)(1.0/25.0/55.0)(0.2/7.0/14.0) (100/VCa-Ing-177)	82	84					I c a		CangyI	2097			
									CangyI	2098			
									CangyI	2099			
									CangyI	2100			
.1 Complete literature search									CangyI	2101			
.2 Hold meetings with industry representatives to select plants for walk-thru surveys									CangyI	2102			
.3 Complete walk-thru surveys for pilot study									CangyI	2103			
.4 Present recommendations for continuation studies to Director, DRDS (1Q83)									CangyI	2104			
									CangyI	2105			
									CangyI	2106			
									CangyI	2107			
									CangyI	2108			

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	P M F						R E U		O C N		RESOURCES	
	FY						N P F		T F			
	PLANNED COMPLETION						G H D		PY		\$1000 \$1000	
	I	C	1Q	2Q	3Q	4Q						
8. Env/Morb/Mortality Study of Vermiculite Workers (Amandus H 304-599-7476)(100/VKL-bDp-196)(0.5/15.0/30.0) (100/VCa-Igk-196)	81	83					I	g	a			
.1 Submit employment records for SSA and IRS						o					CagkyI	2111
.2 Obtain and code death certificates (1Q83)											CagkyI	2112
.3 Evaluate environmental data and prepare for mortality analysis						o					CagkyI	2113
.4 Analysis and report (3Q83)											CagkyI	2114
Montana and South Carolina Plants											CagkyI	2115
.5 Plan strategy with NIOSH and MSHA legal counsel for obtaining records and access to facility			o								CagkyI	2116
.6 Obtain legal access to records and plant					o						CagkyI	2117
.7 Site visit to Libby, Montana plant. Cross-sectional medical/environmental study. Collect personnel records and examine facility processes to interpret hygiene measurements						o					CagkyI	2118
.8 Site visit of control facility (South Carolina)(2Q83)											CagkyI	2119
.9 Complete fiber analysis of vermiculite ore and airborne sample (4Q83)											CagkyI	2120
.10 Complete analysis of morbidity data (4Q83)											CagkyI	2121
.11 Complete follow-up of workers for mortality study (4Q83)											CagkyI	2122
.12 Morbidity, mortality, environmental report (1Q84)											CagkyI	2123
.13 Submit (summary) final report and abstract to Director, NIOSH, with copy of report and abstract to DTS (1Q84)											CagkyI	2124
											CagkyI	2125
											CagkyI	2126
											CagkyI	2127
											CagkyI	2128
											CagkyI	2129
											CagkyI	2130
											CagkyI	2131
											CagkyI	2132
											CagkyI	2133
											CagkyI	2134
											CagkyI	2135
											CagkyI	2136

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY				P M F R E U O C N G H D				RESOURCES	
	PLANNED COMPLETION								NPF	TF
	I	C	1Q	2Q	3Q	4Q	PY	\$1000	\$1000	
9. Morb/Mort Study of Workers Exposed to Wood Dust (Gamble J 304-599-7476) (VKL-bsD-188) (2.0/75.0/135.0) (100/VCa-Igh-188)	79	83					I c a			CaghhI 2139
										CaghhI 2140
										CaghhI 2141
										CaghhI 2142
.1 Discussion with National Forest Products Association and other knowledgeable individuals in wood industry (FY79 & FY80)										CaghhI 2143
										CaghhI 2144
.2 Clearance of wood study design and protocol (4Q79)										CaghhI 2145
										CaghhI 2146
.3 Site visits of representative plants in this industry (4Q79)										CaghhI 2147
										CaghhI 2148
.4 Decision made to contract out part of the work (1Q80)										CaghhI 2149
										CaghhI 2150
.5 RFP for wood dust contract (2Q80)										CaghhI 2151
.6 NFPA agrees to conduct questionnaire survey of their for information on products, species, size, etc. Information is to be used in drawing a sample of plants to be included in the study (4Q80)										CaghhI 2152
										CaghhI 2153
.7 Data from NFPA used in selecting approx. 60 plants (2Q81)										CaghhI 2154
										CaghhI 2155
.8 Ready to contact plants, but no funds available to follow-up; everything on hold (3Q81 & 4Q81)										CaghhI 2156
										CaghhI 2157
.9 Award of contract questionable (doubtful)(3Q81 & 4Q81)										CaghhI 2158
.10 Tract pilot study (UNC grant)										CaghhI 2159
										CaghhI 2160
.11 Contact plants that agree to participate in study and make arrangements for walk-thrus										CaghhI 2161
										CaghhI 2162
.12 Microfilm records for mortality study										CaghhI 2163
										CaghhI 2164
.13 Walk-thru IH survey of plants. Set up time to do medical and IH survey										CaghhI 2165
										CaghhI 2166
.14 Medical and IH survey of plants in 4 cells/3quarters										CaghhI 2167
										CaghhI 2168
.15 Processing, coding, and editing										CaghhI 2169
										CaghhI 2170
.16 Initial morbidity analysis will be for each cell and will go on as walk-thrus & surveys are being conducted in the plants in other (species) cells										CaghhI 2171
										CaghhI 2172
.17 Analysis of medical data with acute environmental data will be for each cell. Complete analysis may have to wait for estimation of cumulative exposure estimates (2Q83)										CaghhI 2173
										CaghhI 2174
.18 Analysis and report for entire study using data from all cells (4Q83)										CaghhI 2175
										CaghhI 2176
.19 Submit abstract of final report to Director, NIOSH, with copy of abstract and report to DTS (4Q83)										CaghhI 2177

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY				PLANNED COMPLETION				P M F			RESOURCES	
	I	C	1Q	2Q	3Q	4Q	G	H	D	PY	NPF	TF	
													O
10. Third Round National Coal Study (Attfield M 304-599-7501)(VKL-bpD-183)(100/VCa-Imm-183)	77	82								I	b	b	
Mortality													CamniI 2179
NCS 1 Cohort													CamniI 2180
.1 Data preparation and ICDA coding completed													CamniI 2181
.2 Prepare master tape													CamniI 2182
.3 Mortality analysis													CamniI 2183
Appalachian Cohort													CamniI 2184
.4 Determine vital status of selcted 'hard-to-locate' cases													CamniI 2185
.5 Analyze data and write and write report													CamniI 2186
Beckley-Charleston Compensation Cohort													CamniI 2187
.6 Determine vital status of selected 'hard-to-locate' cases													CamniI 2188
.7 Analyze data and write report													CamniI 2189
Morbidity													CamniI 2190
.1 Complete film reading													CamniI 2191
.2 Complete editing and letter generation													CamniI 2192
.3 Complete analysis (principally study of radiological progression)													CamniI 2193
.4 Complete final report and submit abstract to Director, NIOSH, with copy of all reports and abstracts													CamniI 2194

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY				PLANNED COMPLETION				P M F		R E U		O C N		G H D		PY		RESOURCES	
	I C		1Q		2Q		3Q		4Q		I c b		I c d		I c e		I c f		NPF TF	
																			\$1000 \$1000	
11. Epidemiologic Study of Normal Blue Collar Workers (Burchell B 304-599-7501)(VKL-iDp-195) (0.4/18.0/30.0) (100/VCa-Iyy-195)	77	83									I c b								CayyyI	2204
.1 Collect and edit data (1Q80)																			CayyyI	2205
.2 Verify the coding of the data and begin preliminary analyses (1Q81)																			CayyyI	2206
.3 Provide an analysis of the symptoms of respiratory diseases (2Q81)																			CayyyI	2207
.4 Provide an analysis of x-ray data (2Q81)																			CayyyI	2208
.5 Provide an analysis of the pulmonary function data (3Q81)																			CayyyI	2209
.6 Extract the asymptomatic nonsmokers' data and develop pulmonary function prediction equations (4Q81)																			CayyyI	2210
.7 Provide a written report to the Director, NIOSH, of items 3-6 (4Q81)																			CayyyI	2211
.8 Extract a set of nonexposed controls from secondary cotton study for use in the extended blue collar study																			CayyyI	2212
.9 Extract a set of nonexposed controls from cement workers' study for use in the extended blue collar study																			CayyyI	2213
.10 Calculate the total lung capacity for each subject in the study by the planimetric method and incorporate the results into the data file																			CayyyI	2214
.11 Provide and analysis of the supplemental controls' data																			CayyyI	2215
.12 Complete final report and submit abstract to Director, NIOSH, with copy of report and abstract to DTS (4Q83)																			CayyyI	2216
																			CayyyI	2217
																			CayyyI	2218
																			CayyyI	2219
																			CayyyI	2220
																			CayyyI	2221
																			CayyyI	2222
																			CayyyI	2223
																			CayyyI	2224
																			CayyyI	2225
																			CayyyI	2226
																			CayyyI	2227
																			CayyyI	2228
																			CayyyI	2229
12. Cement Mortality Study (Amandus H 304-599-7476)(VKL-bDp-192) (0.4/8.0/20.0) (100/VCa-Ign-192)	80	83									I c d								CagnyI	2232
.1 Follow-up; vital status determined (4Q81)																			CagnyI	2233
.2 Obtain and code death certificates																			CagnyI	2234
.3 Analysis (2Q83)																			CagnyI	2235
.4 Complete data analysis (3Q83)																			CagnyI	2236
.5 Complete final report and submit abstract to Director, NIOSH, with copy of report and abstract to DTS (4Q83)																			CagnyI	2237
																			CagnyI	2238
																			CagnyI	2239
																			CagnyI	2240
																			CagnyI	2241
																			CagnyI	2242

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY				PLANNED COMPLETION				P M F			RE U		O C N		RESOURCES	
	I C		1Q	2Q	3Q	4Q	G	H	D	PY	NPF	TF	\$1000		\$1000		
13. Mort/IH Study of Workers in Coal-Fired Power Plants -TVA (Costello J 304-599-7476) (VKL-bDi-180) (100/VCa-Iim-180)	77	82							I	c	b					CaimyI	2245
																CaimyI	2246
																CaimyI	2247
																CaimyI	2248
.1 Monitor IH work performed by TVA under subagreement I (1Q,2Q,3Q,4Q81)																CaimyI	2249
.2 Monitor TVA work performed under mortality subagreement (1Q,2Q,3Q,4Q81)																CaimyI	2250
.3 Perform follow-up on subjects not in TVA retirement system. Tape supplied by TVA (3Q81)																CaimyI	2251
.4 Receipt of death certificates from TVA - subjects in TVA retirement system (1Q,2Q,3Q81)																CaimyI	2252
.5 Order death certificates for subjects not in TVA retirement system (3Q81)																CaimyI	2253
.6 Obtain remaining death certificates - in excess of 1000 (4Q81)																CaimyI	2254
.7 Send death certificates to NCHS for ICD coding (1Q,2Q,3Q,4Q81)																CaimyI	2255
.8 Receive all coded death certificates from NCHS (4Q81)																CaimyI	2256
.9 Interim IH report submitted by TVA and received by NIOSH (2Q81)																CaimyI	2257
.10 Final IH report reviewed and comments submitted by TVA (3Q81)																CaimyI	2258
.11 Complete protocol for IH characterization of welding environment (4Q81)																CaimyI	2259
.12 Combine tapes for subjects in and not in TVA retirement system																CaimyI	2260
																CaimyI	2261
.13 Supply TVA complete tape																CaimyI	2262
.14 Complete IH characterization of welding environment																CaimyI	2263
.15 Mortality analysis completed - TVA																CaimyI	2264
.16 Submit final report and abstract to Director, NIOSH, with copy of report and abstract to DTS																CaimyI	2265
.17 Cooperative (NIOSH & TVA) analysis and preparation of journal articles (open)																CaimyI	2266
																CaimyI	2267
																CaimyI	2268
																CaimyI	2269
																CaimyI	2270
																CaimyI	2271
																CaimyI	2272
																CaimyI	2273
																CaimyI	2274
																CaimyI	2275
																CaimyI	2276
																CaimyI	2277
																CaimyI	2278
																CaimyI	2279

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY				PLANNED COMPLETION				P M F		R E U		O C N		RESOURCES	
	I C		1Q	2Q	3Q	4Q	G	H	D	PY	NPF	TF	\$1000 \$1000			
14. Mortality Study Diesel Engine Mechanics (Costello J 304-599-7476) (VKL-bpB-193) (0.4/8.0/20.0) (100/VCa-Iyi-193)	79	83					I	g	a						CayiyI	2282
															CayiyI	2283
															CayiyI	2284
															CayiyI	2285
.1 Initial cohort gathered from selected bus garage workers and railroad shop repairmen - done through local unions of the Machinists Union. n=approx 3500 (FY79 & 80)															CayiyI	2286
															CayiyI	2287
.2 Negotiate with Machinists International to expand cohort (1Q81)															CayiyI	2288
															CayiyI	2289
.3 Negotiate with Federal Railroad Retirement Board - referral from Machinists Union (2Q81)															CayiyI	2290
															CayiyI	2291
.4 Five percent (5%) sample requested from FRRB (3Q81)															CayiyI	2292
.5 Receive data from FRRB (4Q81)															CayiyI	2293
.6 Process and code data from FRRB - no follow-back required															CayiyI	2294
															CayiyI	2295
.7 Follow-back with postmasters, IRS, SSA, to determine vital status on original cohort															CayiyI	2296
															CayiyI	2297
.8 Complete building master tape on original cohort, plus FRRB workers															CayiyI	2298
															CayiyI	2299
.9 Order death certificates on original cohort, plus acquire death notices from FRRB															CayiyI	2300
															CayiyI	2301
.10 Death certificate coding															CayiyI	2302
.11 Submit Equifax renewal RFC															CayiyI	2303
.12 Updating of master file (computer processing) for analysis (1Q83)															CayiyI	2304
															CayiyI	2305
.13 Complete analysis and report writing (3Q83)															CayiyI	2306
															CayiyI	2307
.14 Complete final report and submit abstract to Director, NIOSH, with copy of report and abstract to DTS (4Q83)															CayiyI	2308
															CayiyI	2309
															CayiyI	2310

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY		PLANNED COMPLETION				P M F		R E U		O C N		RESOURCES	
	I C		1Q	2Q	3Q	4Q	G	H	D	PY	NPF	TF	\$1000	\$1000
15. Occupational Exposure to Phthalic Anhydride (Sanderson W 304 599-7421)(2.0/44.9/104.9)(0.5/17.4/34.9) (100/VCB-Iyy-156)	82	84					I	c	a				CbyyyI	2314
.1 Submit interim report and anthology reviewing current literature to Director, DRDS				o									CbyyyI	2315
.2 Submit a draft of environmental study protocol to Director, DRDS					o								CbyyyI	2316
.3 Submit to Director, DRDS a draft of laboratory study protocol					o								CbyyyI	2317
.4 Complete tripartite meeting and consultation with industry and labor concerning proposed study						o							CbyyyI	2318
.5 Submit package for HSRB clearance							o						CbyyyI	2319
.6 Completion of walk-thru surveys of industry							o						CbyyyI	2320
.7 Award contract for immunology analysis							o						CbyyyI	2321
.8 Completion of study protocol including results of walk-thru studies (1Q83)								o					CbyyyI	2322
.9 Initiate field studies (2Q83)									o				CbyyyI	2323
.10 Submit draft of proposed method of data reduction and analysis, including format of plant reports and data coding system to Director, DRDS (3Q83)									o				CbyyyI	2324
.11 Complete field studies (4Q83)									o				CbyyyI	2325
.12 Complete survey reports and data coding (1Q84)									o				CbyyyI	2326
.13 Submit draft final report for peer review (3Q84)									o				CbyyyI	2327
.14 Submit final report and abstract to Director, NIOSH, with copy of report and abstract to DTS (4Q84)									o				CbyyyI	2328
													CbyyyI	2329
													CbyyyI	2330
													CbyyyI	2331
													CbyyyI	2332
													CbyyyI	2333
													CbyyyI	2334
													CbyyyI	2335
													CbyyyI	2336
													CbyyyI	2337
													CbyyyI	2338
													CbyyyI	2339
													CbyyyI	2340
16. Morb/Mort/IH Study of Welding, Thermal Cutting, Brazing (Hewett P 304-599-7421)(3.0/50.0/140.0)(2.5/42.6/130.1) (100/VCB-Ipy-157)	82	84					I	c	e				CbpyrI	2343
.1 Complete literature search and submit referenced review (for possible publication as a review article)				o									CbpyrI	2344
.2 Meet with DPSE to establish chemistry protocol					o								CbpyrI	2345
.3 Prepare and submit draft environmental protocol					o								CbpyrI	2346
.4 Make contact with and solicit input from Trade Associations, labor union, and other Federal Agencies (e.g., AWS, DOD, ISWA, etc)					o								CbpyrI	2347
.5 Identify potential cohorts through walk-thru reviews of industrial operations						3							CbpyrI	2348
.6 Submit interim report to Director, DRDS with plan for FY83 effort							3						CbpyrI	2349
.7 Initiate examination of Morbidity/Mortality Data Base								o					CbpyrI	2350
.8 Outyear plan pending results of Phase I FY82 study								o					CbpyrI	2351
													CbpyrI	2352
													CbpyrI	2353
													CbpyrI	2354
													CbpyrI	2355
													CbpyrI	2356
													CbpyrI	2357
													CbpyrI	2358
													CbpyrI	2359
													CbpyrI	2360

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY				PLANNED COMPLETION				P M F			RESOURCES	
	I C		1Q	2Q	3Q	4Q	G H D	PY	R E U		O C N	NPF	TF
												\$1000	\$1000
17. Prevalence of Respiratory Disease in Poultry Confinement Industry (Morring K 304-599-7421)(VKP-cDd-162) (3.3/176.0/175.0) (2.0/50.0/120.0)(0.3/24.6/35.9)(100/VCb-Idu-162)	82	85					I c a						
.1 Submit referenced review of prior industrial hygiene characterizations of confinement facilities (EIB)				o								CbduyI	2363
.2 Complete review of medical literature (CIB)				o								CbduyI	2364
.3 Design medical questionnaire and develop clinical study design (CIB)					o							CbduyI	2365
.4 Identify poultry confinement systems available to study					o							CbduyI	2366
.5 Complete walk-thru surveys at selected facilities						o						CbduyI	2367
.6 Prepare sampling protocol for major toxic gases and organic dusts and other particulate matter found in confinement environments (EIB)						o						CbduyI	2368
.7 Develop study design to test immunologic parameters in exposed worker populations (LIB)						o						CbduyI	2369
.8 Complete environmental, medical, and laboratory study design and submit proposal for OMB approval						o						CbduyI	2370
.9 Initiate pilot study to test study design						o						CbduyI	2371
.10 Submit interim project report (1Q83)							o					CbduyI	2372
.11 Complete final medical/environmental study protocol used in comprehensive studies (1Q83)							o					CbduyI	2373
.12 Select facilities to be studied; submit survey schedule (1Q83). Complete summer characterization of confinement operations (4Q83)							o					CbduyI	2374
.13 Complete winter characterizations of confinement operations (2Q84)							o					CbduyI	2375
.14 Complete data analysis of medical, laboratory and environmental results (3Q84)							o					CbduyI	2376
.15 Prepare and submit draft final report to Director, DRDS (4Q84)							o					CbduyI	2377
.16 Submit final report to Director, DRDS (2Q85)												CbduyI	2378
.17 Submit report and abstract to Director, NIOSH, with copy of report and abstract to DTS (4Q85)												CbduyI	2379
												CbduyI	2380
												CbduyI	2381
												CbduyI	2382
												CbduyI	2383
												CbduyI	2384
												CbduyI	2385
												CbduyI	2386
												CbduyI	2387
												CbduyI	2388
												CbduyI	2389
												CbduyI	2390
												CbduyI	2391
												CbduyI	2392
												CbduyI	2393
												CbduyI	2394
												CbduyI	2395
												CbduyI	2396
												CbduyI	2397
												CbduyI	2398

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY				PLANNED COMPLETION				P M F			RESOURCES	
	I C		1Q	2Q	3Q	4Q	O C N			R E U		NPF	TF
	I	C	1Q	2Q	3Q	4Q	G	H	D	PY		\$1000	\$1000
18. Aerosol Deposition in Humans (McCawley M 304-599-7421)(VKP-hDy-163) (0.7/20.0/40.0) (100/VCb-IyJ-163)	81	83							I c a				
.1 Conduct initial tests of aerosol deposition in 50 exposed and 50 control subjects (baseline function)				o								CbyJnI	2401
.2 Conduct first follow-up of control and exposed subjects					o							CbyJnI	2402
.3 Conduct second follow-up of control and exposed subjects						o						CbyJnI	2403
.4 Conduct final follow-up of control and exposed subjects							o					CbyJnI	2404
.5 Prepare report on comparison of pulmonary function and aerosol deposition measurements (2Q83)												CbyJnI	2405
.6 Purchase and construct fieldworthy instrument (2Q83)												CbyJnI	2406
.7 Conduct comparative deposition tests with German collaborators (3Q83)												CbyJnI	2407
.8 Submit final report on instrument test, including operation manual, and blueprints to Director, DRDS (4Q83)												CbyJnI	2408
.9 Submit fully tested aerosol deposition instrument to Director, DRDS for use on future studies (4Q83)												CbyJnI	2409
												CbyJnI	2410
												CbyJnI	2411
												CbyJnI	2412
												CbyJnI	2413
												CbyJnI	2414
												CbyJnI	2415
												CbyJnI	2416
												CbyJnI	2417
												CbyJnI	2418
												CbyJnI	2419
19. IH Characterization of F.B.C. (Regad E 304-599-7421) (VKP-ciD-175)(100/VCb-Iiy-175)	81	82							I b b			CbiyuI	2422
.1 Award contract (2Q81)												CbiyuI	2423
.2 Obtain work plan for survey from contractor (3Q81)												CbiyuI	2424
.3 Complete surveys of 2 FBC plants												CbiyuI	2425
.4 Decision point on extending contract based on technology and engineering status of FBC facilities at this point in time									o			CbiyuI	2426
.5 Receive final contractor reports on IH environment in FBC facilities									o			CbiyuI	2427
.6 Submit final report and abstract to Director, NIOSH, with copy of report and abstract to DTS									o			CbiyuI	2428
									o			CbiyuI	2429
									o			CbiyuI	2430
									o			CbiyuI	2431
									o			CbiyuI	2432
									o			CbiyuI	2433
									o			CbiyuI	2434
												CbiyuI	2435

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY				PLANNED COMPLETION				P M F			RESOURCES	
	I C				1Q 2Q 3Q 4Q				R E U			NPF TF	
									O C N			PY \$1000 \$1000	
20. IH Study of Coal Liquefaction Processes - EPA (Keane M 304-599-7421)(VKP-ciH-165)(2.0/240.0/300.0) (100/VCb-Iiy-165)	77	83							I	b	c		
.1 Receipt of contractor's final report on 5 liquefaction facility comprehensive IH surveys												CbiyhI	2438
.2 Review of contractor's report and other sources on findings in liquefaction facilities												CbiyhI	2439
.3 Comprehensive Industrial Hygiene Survey of the Exxon Donor Solvent, operation on lignite, subject to entry agreement and operation schedule												CbiyhI	2440
.4 IH survey of Exxon Donor Solvent facility during plant turnaround, subject to entry agreement and operating schedule												CbiyhI	2441
.5 Turnaround survey of H-coal facility subject to entry agreement and operating schedule												CbiyhI	2442
.6 Draft report detailing findings pertaining to occupational health in liquefaction facilities, to Director, NIOSH, and recommendations for additional studies (1Q83)												CbiyhI	2443
.7 Submit final report and abstract to Director, NIOSH, with copy of report and abstract to DTS (2Q83)												CbiyhI	2444
												CbiyhI	2445
												CbiyhI	2446
												CbiyhI	2447
												CbiyhI	2448
												CbiyhI	2449
												CbiyhI	2450
												CbiyhI	2451
												CbiyhI	2452
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												CbiyhI	2457
												CbiyhI	2458
												CbiyhI	2459
												CbiyhI	2460
21. OH Studies of Gasification Processes - EPA (Reaux C 304-599-7421)(VKP-ciD-172) (2.0/80.0/140.0)(2.0/70.0/140.0)(100/VCb-Iiy-172)	77	84							I	g	c		
.1 Review IH characterization data from Caterpillar, CE, and Westinghouse gasifiers												CbiyuI	2463
.2 Gasification site IH field studies												CbiyuI	2464
.3 Draft comprehensive report on data to date												CbiyuI	2465
.4 Initiate Kosova, Yugoslavia Lurgi gasifier study												CbiyuI	2466
.5 Completion of TVA-Texaco gasifier IH studies Under Interagency Agreement (4Q83)												CbiyuI	2467
.7 Completion of gasifier pilot plant field studies (4Q83)												CbiyuI	2468
.8 Complete Phase I of Yugoslavia study, Interagency decision on Phase 2 (3Q84)												CbiyuI	2469
.9 Submit final report and abstract to Director, NIOSH, with copy of report and abstract to DTS (3Q84)												CbiyuI	2470
												CbiyuI	2471
												CbiyuI	2472
												CbiyuI	2473
												CbiyuI	2474
												CbiyuI	2475
												CbiyuI	2476
												CbiyuI	2477
												CbiyuI	2478
												CbiyuI	2479

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	P M F										RESOURCES	
	R E U										NPF TF	
	O C N											
	FY	PLANNED	COMPLETION	G H D		PY	\$1000	\$1000				
I C 1Q 2Q 3Q 4Q												
22. OH Studies of Oil-Shale Processes-EPA (Wheeler R 304-599-7421)(VKP-cip-166)(100/VCb-Iiy-166)	81	82					I c c				CbiyuI	2482
											CbiyuI	2483
											CbiyuI	2484
.1 IH characterization of Logan Oil Shale Retort						o					CbiyuI	2485
.2 IH characterization of Occidental C/B Modified In Situ mine preparation						o					CbiyuI	2486
						o					CbiyuI	2487
.3 IH characterization of Colony Mine preparation							o				CbiyuI	2488
.4 IH characterization of Tar Sands Facility (2Q83)											CbiyuI	2489
.5 IH characterization of Colony Mine Operation (3Q83)											CbiyuI	2490
.6 Comprehensive review of NIOSH and National Labs Oil Shale Toxicology data to date (4Q83)											CbiyuI	2491
											CbiyuI	2492
.7 Submit report and abstract to Director, NIOSH, with copy of report and abstract to DTS (4Q83)											CbiyuI	2493
											CbiyuI	2494
											CbiyuI	2495
23. Hypersensitivity Pneumonitis Due to Humidifiers (Kullman G 304-599-7421)(VKP-cDd-160)(0.7/17.3/38.3) (100/VCb-Idy-160)	81	83					I c a				CbdyyI	2498
											CbdyyI	2499
											CbdyyI	2500
											CbdyyI	2501
.1 Complete one (1) walk-thru/sampling survey at a problem facility (4Q81)											CbdyyI	2502
.2 Complete an interim report on FY81 accomplishments			o								CbdyyI	2503
.3 Apply for clearance to take blood samples in FY82			o								CbdyyI	2504
.4 Complete comparative tests on viable sampling equipment				o							CbdyyI	2505
.5 Finalize environmental protocol						o					CbdyyI	2506
.6 Complete field survey(s)						o	o				CbdyyI	2507
.7 Meet with CIB Section to discuss their involvement in the project for FY83											CbdyyI	2508
							o				CbdyyI	2509
.8 Complete second interim report							o				CbdyyI	2510
											CbdyyI	2511
.9 Futura direction pending results of FY82 study; to be drafted per milestone 7, FY83											CbdyyI	2512
											CbdyyI	2513
											CbdyyI	2514

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY				PLANNED COMPLETION				P M F			RE U		O C N		RESOURCES	
	I C		1Q	2Q	3Q	4Q	G	H	D	PY		NPF	TF			\$1000	\$1000
24. Demonstration Plant OH Studies (Regd E 304-599-7421)(1.5/115.0/160.0)(1.5/77.5/130.0) (100/VCb-Iiy-152)	81	84								I	c	b					
.1 Identify technologies likely to be implemented				o												CbiyuI	2517
.2 Establish industry/sybfuels corporation liason					o											CbiyuI	2518
.3 Identify and select from plants available for review				o												CbiyuI	2519
.4 Identify plant starts projected for FY83				o												CbiyuI	2520
.5 Request design information for FY82 plants				o												CbiyuI	2521
.6 Commence design IH study, FY82 plants					o											CbiyuI	2522
.7 Request design information FY83 plants (contingent on bid announcements)					o											CbiyuI	2523
.8 Conduct field IH characterization of improved coal combustion technology								o								CbiyuI	2524
.9 Complete design review, FY82 plants								o								CbiyuI	2525
.10 Submit report and abstract on FY82 plants to Director, NIOSH, with copy of report and abstract to DTS (1Q83)																CbiyuI	2526
																CbiyuI	2527
																CbiyuI	2528
																CbiyuI	2529
																CbiyuI	2530
																CbiyuI	2531
																CbiyuI	2532
																CbiyuI	2533
																CbiyuI	2534
25. Determination of Respiratory Mechanics by Force Oscillations (Hankinson J 304-599-7755)(100/VCc-Ijd-213)	82	82								I	c	a				CcjdyI	2537
.1 Submit research protocol to HSRB				o												CcjdyI	2538
.2 Submit requisition for equipment				o												CcjdyI	2539
.3 Complete collection of data on approximately 14 subjects (cumulative)					7	14										CcjdyI	2540
.4 Complete field testing of system								o								CcjdyI	2541
.5 Submit final report and abstract to Director, NIOSH, with copy of report and abstract to DTS								o								CcjdyI	2542
																CcjdyI	2543
																CcjdyI	2544
																CcjdyI	2545
																CcjdyI	2546
																CcjdyI	2547
26. Spirometer Testing (Hankinson J 304-599-7755) (VKH-mDp-219) (100/VCc-Imm-219)	81	82								I	c	a				ComnyI	2550
.1 Implement spirometer testing program				o												ComnyI	2551
.2 Test spirometers submitted				o												ComnyI	2552
.a Cumulative () tested			()	()	()	()										ComnyI	2553
.b Number approved ()			()	()	()	()										ComnyI	2554
																ComnyI	2555
																ComnyI	2556
																ComnyI	2557
																ComnyI	2558

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	P M F				R E U				RESOURCES			
	FY		PLANNED COMPLETION				O C N		NPF		TF	
	I	C	1Q	2Q	3Q	4Q	G	H	D	PY	\$1000	\$1000
27. Cross-sectional Medical/IH Survey - Non-Textile Cotton (Merchant J 304-599-7474) (VKH-nDr-216)(100/VCC-IJg-216)	76	82					I	b	a			
.1 Complete individual (14) plant reports and final report of medical-environmental results: warehouse/compress segment				o						CejgdI	2561	
.2 Complete individual (14) plant reports and final report: cottonseed oil mill segment					o					CejgdI	2562	
.3 Initiate bioassays of archived filters				o						CejgdI	2563	
.4 Complete plant report (6) and final report: classification office segment					o					CejgdI	2564	
.5 Submit final reports and abstracts to Director, NIOSH, with copies of reports and abstracts to DTS						o				CejgdI	2565	
.6 Submit project-related paper to peer review journals for publication							o			CejgdI	2566	
.7 Complete interim report on bioassay of collected filters							o			CejgdI	2567	
28. Prospective EPI/IH Study of New & Ex-Coal Miners (Hankinson J 304-599-7755) (VKH-bpD-214)(100/VCC-Imm-214)	77	82					I	c	b			
.1 Complete last round of follow-up studies (24 months)				o						CcmniI	2568	
.2 Complete collection of particle size distribution data					o					CcmniI	2569	
.3 Complete IH data analysis					o					CcmniI	2570	
.4 Complete all data analysis and correlations						o				CcmniI	2571	
.5 Submit final report and abstract to Director, NIOSH, with copy of report and abstract to DTS							o			CcmniI	2572	
29. Morb/IH Study of Cement Workers (Abrons H 304-599-7755) (VKH-bpD-215)(100/VCC-Idy-215)	78	82					I	b	d			
.1 Complete medical studies at 3 cement plants and control plants					o					CedyyI	2573	
.2 Complete IH studies at 3 cement plants and control plants				o						CedyyI	2574	
.3 Complete IH plant reports					o					CedyyI	2575	
.4 Complete data analysis						o				CedyyI	2576	
.5 Submit final report and abstract to Director, NIOSH, with copy of report and abstract to DTS							o			CedyyI	2577	
										CedyyI	2578	
										CedyyI	2579	
										CedyyI	2580	
										CedyyI	2581	
										CedyyI	2582	
										CedyyI	2583	
										CedyyI	2584	
										CedyyI	2585	
										CedyyI	2586	
										CedyyI	2587	
										CedyyI	2588	
										CedyyI	2589	
										CedyyI	2590	
										CedyyI	2591	
										CedyyI	2592	
										CedyyI	2593	
										CedyyI	2594	
										CedyyI	2595	
										CedyyI	2596	
										CedyyI	2597	
										CedyyI	2598	
										CedyyI	2599	
										CedyyI	2600	
										CedyyI	2601	
										CedyyI	2602	

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY				PLANNED COMPLETION				P M F R E U O C N			RESOURCES	
	I C		1Q	2Q	3Q	4Q	G H D	PY	NPF TF			\$1000	\$1000
30. Evaluation of the Effects of Washed Cotton Dust (Castellan R) (VKA-eDg-105)(1.3/10.0/49.0)(100/VCC-IJg-105)	81	83					I g h					CcJgdI	2605
												CcJgdI	2606
												CcJgdI	2607
.1 Complete screening and selection procedures and begin year long exposures				o								CcJgdI	2608
.2 Complete analysis of FEV1 effect of three months exposure					o							CcJgdI	2609
.3 Complete analysis of FEV1 effect of seven months exposure						o						CcJgdI	2610
.4 Monitor NIOSH/UNC Technical Assistance. Ensure task is in schedule and deliverables are in production												CcJgdI	2611
.5 Complete data collection (1Q83)			o	o	o							CcJgdI	2612
.6 Receive final report from NIOSH/UNC Technical Assistance, complete analysis, and submit final project report and abstract to Director, NIOSH, with copy of report and abstract to DTS (4Q83)												CcJgdI	2613
												CcJgdI	2614
												CcJgdI	2615
												CcJgdI	2616
												CcJgdI	2617
												CcJgdI	2618
												CcJgdI	2619
												CcJgdI	2620
												CcJgdI	2621

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY				P M F				RESOURCES	
	PLANNED COMPLETION				R E U				NPF TF	
	I	C	1Q	2Q	3Q	4Q	G	H	D	PY \$1000 \$1000
34. Comparative Toxicity/Pathogenicity of Mineral Dusts (Vallyathan V. 304 599-7581)(1.2/80.6/116.6)(1.0/35.0/70.0) (1.0/35.0/70.0)(100/VCD-Img-108)	82	85					I	c	d	CdmgkI 2710 CdmgkI 2711 CdmgkI 2712 CdmgkI 2713 CdmgkI 2714 CdmgkI 2715 CdmgkI 2716 CdmgkI 2717 CdmgkI 2718 CdmgkI 2719 CdmgkI 2720 CdmgkI 2721
.1 Training personnel in animal experimentation, tissue preparations				o						CddyI 2724 CdmgkI 2715
.2 Experimental design, planning protocol studies, dust sample collections from workplaces, dust sample fractionations, preparations, pilot studies			o	o	o	o				CddyI 2716 CdmgkI 2717 CdmgkI 2718 CdmgkI 2719 CdmgkI 2720
.3 Mineral identification, characterization				o		o				CddyI 2721
.4 Histopathological studies of few selected dusts				o		o				CddyI 2724
35. Immunology of Grain and Other Organic Dusts (Olenchok S 304-599-7256)(VKC-cDn-109)(100/VCD-Idy-109)	80	82					I	c	a	CddyI 2725 CddyI 2726 CddyI 2727 CddyI 2728 CddyI 2729 CddyI 2730 CddyI 2731 CddyI 2732 CddyI 2733 CddyI 2734 CddyI 2735 CddyI 2736 CddyI 2737 CddyI 2738 CddyI 2739 CddyI 2740 CddyI 2741 CddyI 2742 CddyI 2743 CddyI 2744 CddyI 2745 CddyI 2746 CddyI 2747 CddyI 2748 CddyI 2749 CddyI 2750 CddyI 2751 CddyI 2752 CddyI 2753 CddyI 2754 CddyI 2755
.1 Initiate new studies on complement and organic dusts (1Q80)										CddyI 2727
.2 Complete examination of bacterial endotoxins contamination of cotton dust samples and animal confinement dusts (2Q80)										CddyI 2728 CddyI 2729 CddyI 2730 CddyI 2731 CddyI 2732 CddyI 2733 CddyI 2734 CddyI 2735 CddyI 2736 CddyI 2737 CddyI 2738 CddyI 2739 CddyI 2740 CddyI 2741 CddyI 2742 CddyI 2743 CddyI 2744 CddyI 2745 CddyI 2746 CddyI 2747 CddyI 2748 CddyI 2749 CddyI 2750 CddyI 2751 CddyI 2752 CddyI 2753 CddyI 2754 CddyI 2755
.3 Complete analyses for complement in sera from workers exposed to dust in model cardroom (4Q80)										CddyI 2727
.4 Initiate collaboration (EpIB) on wood dust studies to evaluate complement activation by wood dusts, associated products and other derivations (2Q81)										CddyI 2728 CddyI 2729 CddyI 2730 CddyI 2731 CddyI 2732 CddyI 2733 CddyI 2734 CddyI 2735 CddyI 2736 CddyI 2737 CddyI 2738 CddyI 2739 CddyI 2740 CddyI 2741 CddyI 2742 CddyI 2743 CddyI 2744 CddyI 2745 CddyI 2746 CddyI 2747 CddyI 2748 CddyI 2749 CddyI 2750 CddyI 2751 CddyI 2752 CddyI 2753 CddyI 2754 CddyI 2755
.5 Complete report of airborne endotoxin levels in poultry processing plant (2Q81)										CddyI 2727
.6 Complete endotoxin determinations on airborne dust samples from model cotton cardroom 1980 exposure study (2Q81)										CddyI 2728 CddyI 2729 CddyI 2730 CddyI 2731 CddyI 2732 CddyI 2733 CddyI 2734 CddyI 2735 CddyI 2736 CddyI 2737 CddyI 2738 CddyI 2739 CddyI 2740 CddyI 2741 CddyI 2742 CddyI 2743 CddyI 2744 CddyI 2745 CddyI 2746 CddyI 2747 CddyI 2748 CddyI 2749 CddyI 2750 CddyI 2751 CddyI 2752 CddyI 2753 CddyI 2754 CddyI 2755
.7 Complete complement analyses on serum from subjects in model cardroom 1980 exposure study (3Q81)										CddyI 2727
.8 Complete endotoxin analyses of airborne dust from 1981 intermediate study of model cardroom exposure (4Q81)										CddyI 2728 CddyI 2729 CddyI 2730 CddyI 2731 CddyI 2732 CddyI 2733 CddyI 2734 CddyI 2735 CddyI 2736 CddyI 2737 CddyI 2738 CddyI 2739 CddyI 2740 CddyI 2741 CddyI 2742 CddyI 2743 CddyI 2744 CddyI 2745 CddyI 2746 CddyI 2747 CddyI 2748 CddyI 2749 CddyI 2750 CddyI 2751 CddyI 2752 CddyI 2753 CddyI 2754 CddyI 2755
.9 Complete analysis of cotton textile workers sera for antibodies to hypersensitivity pneumonitis panel (4Q81)										CddyI 2727
.10 Complete collection of pre-exposure samples from model cardroom prospective study			o		o					CddyI 2728 CddyI 2729 CddyI 2730 CddyI 2731 CddyI 2732 CddyI 2733 CddyI 2734 CddyI 2735 CddyI 2736 CddyI 2737 CddyI 2738 CddyI 2739 CddyI 2740 CddyI 2741 CddyI 2742 CddyI 2743 CddyI 2744 CddyI 2745 CddyI 2746 CddyI 2747 CddyI 2748 CddyI 2749 CddyI 2750 CddyI 2751 CddyI 2752 CddyI 2753 CddyI 2754 CddyI 2755
.11 Complete preliminary characterizations of grain dust										CddyI 2727
.12 Expose animals to grain dust/components and evaluate pulmonary response						o				CddyI 2728 CddyI 2729 CddyI 2730 CddyI 2731 CddyI 2732 CddyI 2733 CddyI 2734 CddyI 2735 CddyI 2736 CddyI 2737 CddyI 2738 CddyI 2739 CddyI 2740 CddyI 2741 CddyI 2742 CddyI 2743 CddyI 2744 CddyI 2745 CddyI 2746 CddyI 2747 CddyI 2748 CddyI 2749 CddyI 2750 CddyI 2751 CddyI 2752 CddyI 2753 CddyI 2754 CddyI 2755
.13 Complete Phase I of sample collection and wood dust collaborative study						o				CddyI 2727
.14 Complete final report and submit abstract to Director, NIOSH, with copy of report and abstract to DTS						o				CddyI 2728 CddyI 2729 CddyI 2730 CddyI 2731 CddyI 2732 CddyI 2733 CddyI 2734 CddyI 2735 CddyI 2736 CddyI 2737 CddyI 2738 CddyI 2739 CddyI 2740 CddyI 2741 CddyI 2742 CddyI 2743 CddyI 2744 CddyI 2745 CddyI 2746 CddyI 2747 CddyI 2748 CddyI 2749 CddyI 2750 CddyI 2751 CddyI 2752 CddyI 2753 CddyI 2754 CddyI 2755

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY				PLANNED COMPLETION				P M F			R E U			O C N			RESOURCES		
	I C		1Q	2Q	3Q	4Q	G	H	D	PY	\$1000	\$1000	NPF		TF					
36. Organic Dust: Airway Smooth Muscle and Nerve Effects (Fedan J 304-599-7561)(VKC-cDd-110) (2.1/7.1/80.1) (100/VCd-IJg-110)	81	83							I c a				CdJgyI	2758					CdJgyI	2759
													CdJgyI	2760					CdJgyI	2761
.1 Complete studies on effects of cotton dust on broncho- constriction and neurotransmission													CdJgyI	2762					CdJgyI	2763
.2 Complete studies on effects of phthalic anhydrides on bronchoconstriction and neurotransmission													CdJgyI	2764					CdJgyI	2765
.3 Complete studies on effects of soybean dust on bronchoconstriction and neurotransmission (2Q83)													CdJgyI	2766					CdJgyI	2767
.4 Complete studies on effects of wood dust on bronchoconstriction and neurotransmission (4Q83)													CdJgyI	2768					CdJgyI	2769
.5 Complete final report and submit abstract to Director, NIOSH, with copy of report and abstract to DTS (4Q83)													CdJgyI	2770					CdJgyI	2771
													CdJgyI	2772					CdJgyI	2773
37. Effects of Trace Metal Exposure on Isolated Lung Cells (Castranova V 304-599-7561)(VKC-cDp-126) (3.3/21.0/120.0)(100/VCd-Iqr-126)	81	83							I c d				CdqryI	2775					CdqryI	2776
													CdqryI	2777					CdqryI	2778
.1 Measure the effects of metallic ions on the membrane integrity of type II cells													CdqryI	2779					CdqryI	2780
.2 Measure the effects of metallic ions on chemiluminescence in alveolar macrophages													CdqryI	2781					CdqryI	2782
.3 Develop cultures of alveolar macrophages													CdqryI	2783					CdqryI	2784
.4 Measure effects of metallic ions on oxygen consumption of macrophages in culture													CdqryI	2785					CdqryI	2786
.5 Measure effects of metallic ions on the cellular volume of macrophages in culture (1Q83)													CdqryI	2787					CdqryI	2788
.6 Measure effects of metallic particles on oxygen consumption of macrophages in culture (2Q83)													CdqryI	2789					CdqryI	2790
.7 Measure effects of metallic particles on cellular volume of macrophages in culture (3Q83)													CdqryI	2791					CdqryI	2792
.8 Submit final report and abstract to Director, NIOSH with copy of report and abstract to DTS (4Q83)													CdqryI	2793					CdqryI	2794

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	P M F						R E U		O C N		RESOURCES	
	FY						NPF		TF			
	PLANNED COMPLETION						G H D		PY		\$1000 \$1000	
	I	C	1Q	2Q	3Q	4Q						
38. Immunopathology of Organic Dust Pneumoconiosis (Mentnech M 304-599-7256)(VKC-cDd-124) (0.9/57.0/84.0) (100/VCD-Idy-124)	81	83					I	c	a			
.1 Complete the experiment on effects of cortosone on "zymosan" lung and prepare manuscript (1Q81)											CddjyI	2797
.2 Complete enzyme studies on alveolar macrophages (2Q81)											CddjyI	2798
.3 Complete hemolytic assays with volcanic ash and selected dusts (3Q81)											CddjyI	2799
.4 Intratracheal instillation and aerosol exposure of volcanic ash in vivo (3Q81)											CddjyI	2800
.5 Complete enzyme studies with rat alveolar macrophages exposed to volcanic ash in vitro (3Q81)											CddjyI	2801
.6 Complete analysis of alveolar macrophage changes in response to cotton dust in vitro (4Q81)											CddjyI	2802
.7 Complete the survey of selected pharmacological agents on the animal lesion induced by zymosan											CddjyI	2803
.8 Complete the immunoflourescent studies											CddjyI	2804
.9 Complete the working file of occupationally diseased tissues and prepare manuscript of finding											CddjyI	2805
.10 Complete appraisal of analytical techniques for organic antigens insitu (2Q83)											CddjyI	2806
.11 Complete the clearance studies of selected organic antigens (3Q83)											CddjyI	2807
.12 Submit final report and abstract to Director, NIOSH, with copy of report and abstract to DTS (4Q83)											CddjyI	2808
											CddjyI	2809
											CddjyI	2810
											CddjyI	2811
											CddjyI	2812
											CddjyI	2813
											CddjyI	2814
											CddjyI	2815
											CddjyI	2816
											CddjyI	2817
											CddjyI	2818
											CddjyI	2819
											CddjyI	2820
											CddjyI	2821
											CddjyI	2822
											CddjyI	2823

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	P M F				R E U		O C N		RESOURCES	
	FY		PLANNED		COMPLETION					
	I	C	1Q	2Q	3Q	4Q	G	H	D	PY
39. Early Events in Immune Response to Organic Dusts (Lewis D 304-599-7256) (VKC-cDd-122)(0.8/46.0/70.0) (100/VCd-Idy-122)	81	83					I	c	a	
.1 Complete protocol development for study of mitogenic nature of organic dusts (2Q81)										CddyjI 2826
.2 Complete analysis of serum factors in cohort of loggers, Phase I (3Q81)										CddyjI 2827
.3 Complete analysis of serum factors in cohort of loggers, Phase II (4Q81)										CddyjI 2828
.4 Complete study of mitogenic activities of selected organic dusts (4Q81)										CddyjI 2829
.5 Identify cell populations affected by selected organic dust extracts										CddyjI 2830
.6 Begin isolation and/or identification of mediators released in response to organic dust exposure										CddyjI 2831
.7 Analyze mediator formation in vivo after aerosol/intra-tracheal exposure to organic dust										CddyjI 2832
.8 Complete analysis of in vivo mediator release and correlate results with antibody formation (2Q83)										CddyjI 2833
.9 Complete attempt to isolate and/or identify mediators released in response to organic dust exposure (3Q83)										CddyjI 2834
.10 Complete final report and submit abstract to Director, NIOSH, with copy of report and abstract to DTS (4Q83)										CddyjI 2835
40. Methods Development for Evaluating Lung Disease (Frazer D 304-599-7561)(VKC-iDp-127)(1.5/30.0/75.0) (100/VCd-Idy-127)	81	83					I	c	a	
.1 Assemble and test equipment for measuring lung sounds and trapped gas in animal lungs										CddyjI 2836
.2 Simultaneously measure lung sounds and gas trapping in excised lungs and identify the sounds associated with gas trapping										CddyjI 2837
.3 Simultaneously measure lung sounds and gas trapping in live animals and identify sounds associated with gas trapping										CddyjI 2838
.4 Assemble and test equipment for simultaneously measuring lung sounds and trapped gas in humans (2Q83)										CddyjI 2839
.5 Measure lung sounds and trapped gas simultaneously in humans and characterize the sounds of the different events associated with the gas trapping process in humans (3Q83)										CddyjI 2840
.6 Submit final report and abstract to Director, NIOSH, with copy of report and abstract to DTS (4Q83)										CddyjI 2841
										CddyjI 2842
										CddyjI 2843
										CddyjI 2844
										CddyjI 2845
										CddyjI 2846
										CddyjI 2847
										CddyjI 2848
										CddyjI 2849
										CddyjI 2850
										CddyjI 2851
										CddyjI 2852
										CddyjI 2853
										CddyjI 2854
										CddyjI 2855
										CddyjI 2856
										CddyjI 2857
										CddyjI 2858
										CddyjI 2859
										CddyjI 2860
										CddyjI 2861
										CddyjI 2862
										CddyjI 2863
										CddyjI 2864
										CddyjI 2865
										CddyjI 2866
										CddyjI 2867
										CddyjI 2868
										CddyjI 2869
										CddyjI 2870
										CddyjI 2871
										CddyjI 2872
										CddyjI 2873

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	P M F				R E U				RESOURCES			
	FY		PLANNED COMPLETION		O C N		G H D		PY		NPF TF	
	I C		1Q	2Q	3Q	4Q					\$1000	\$1000
41. Aerosol Inhalation - Disease Mechanisms (Fraser D 304-599-7561)(VKC-cDp-128)(1.7/34.0/85.0) (100/VCD-Iry-128)	81	83					I	c a			CdryyI	2876
.1 Complete system for making morphological measurements of rat lungs				o							CdryyI	2877
.2 Complete testing of exposure system					o						CdryyI	2878
.3 Expose rats to test aerosols						o					CdryyI	2879
.4 Examine lung morphometry of exposed rats (1Q83)											CdryyI	2880
.5 Compare lung function differences between exposed and control animals (2Q83)											CdryyI	2881
.6 Provide exposed animals to other investigators (3Q83)											CdryyI	2882
.7 Submit final report and abstract to Director, NIOSH with copy of report and abstract to DTS (4Q83)											CdryyI	2883
											CdryyI	2884
											CdryyI	2885
											CdryyI	2886
											CdryyI	2887
											CdryyI	2888
											CdryyI	2889
											CdryyI	2890
42. Cellular Toxicity of Mineral Dusts (Pailes W 304-599-7561)(VKC-cDg-119)(100/VCD-Idg-119)	80	82					I	d g			CddgtI	2893
.1 Determine the effects of Wollastonite, asbestos and latex particles on membrane integrity of lung macrophages				o							CddgtI	2894
.2 Determine the effects of Wollastonite, asbestos and latex particles on the selective release of lysosomal enzymes from cultures of lung macrophages					o						CddgtI	2895
.3 Determine the effects of lysates from particle-exposed macrophages on cultured lung fibroblast growth						o					CddgtI	2896
.4 Complete final report and abstract to Director, NIOSH with copy of report and abstract to DTS											CddgtI	2897
											CddgtI	2898
											CddgtI	2899
											CddgtI	2900
											CddgtI	2901
											CddgtI	2902
											CddgtI	2903
											CddgtI	2904
											CddgtI	2905
											CddgtI	2906
43. Effect of Mycotoxins on Pulmonary Macrophages (Sorenson W 304-599-7516)(VKC-cdn-106) (1.0/50.0/80.0) (100/VCD-Iyd-106)	81	83					I	c a			CdyduI	2909
.1 Complete analysis of air samples				o							CdyduI	2910
.2 Complete study of the effect of mycotoxins on production of specific inducible AM proteins						o					CdyduI	2911
.3 Complete study of effect of mycotoxins on total cellular ATP											CdyduI	2912
.4 Complete study of synergistic effects of mycotoxins on in vivo AM functions (3Q83)											CdyduI	2913
.5 Submit final report and abstract to Director, NIOSH, with copy of report and abstract to DTS (4Q83)											CdyduI	2914
											CdyduI	2915
											CdyduI	2916
											CdyduI	2917
											CdyduI	2918
											CdyduI	2919
											CdyduI	2920
											CdyduI	2921
											CdyduI	2922

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY				PLANNED COMPLETION				P M F			RE U		O C N		RESOURCES	
	I C		1Q	2Q	3Q	4Q	G	H	D	PY						NPF	TF
																\$1000	\$1000
44. NRC Postdoctoral Fellowship Program (162.0) (Weber K 304-599-7561)(100/VCD-Idy-132)	81	C							I	a	a						
.1 Complete final report on FY81 activities			o													CddyI	2925
.2 Publicize availability of NRC program			o													CddyI	2926
.3 Recruit potential NRC candidates				o												CddyI	2927
.4 Select NRC fellows					o											CddyI	2928
.5 File yearly evaluations and report						o										CddyI	2929
.6 Administrate continuing program (FY84)																CddyI	2930
																CddyI	2931
																CddyI	2932
																CddyI	2933
																CddyI	2934
DIVISION OF SURVEILLANCE, HAZARD EVALUATIONS AND FIELD STUDIES																D I	2936
																D I	2937
45. Environmental Assessment of New Abrasive Blasting Agents (Harry Donaldson 513-684-3255) (100/VMH-Inn-579)	82	82							I	c	a						
A. Complete tripartite review.			o													DbnnI	2939
B. Initiate walk-through surveys.				o												DbnnI	2940
C. Complete walk-through surveys.					o											DbnnI	2941
D. Complete preliminary report and decide if feasible to proceed.						o										DbnnI	2942
																DbnnI	2943
																DbnnI	2944
																DbnnI	2945
																DbnnI	2946
																DbnnI	2947

CUTANEOUS DISORDERS

Diseases of the skin are generally recognized as the most common of all occupational illnesses. According to the BLS annual survey of occupational injuries and illnesses, skin diseases and disorders have accounted for more than 40 percent of all reported occupational diseases each year from 1972 through 1976. The average annual incidence of occupational skin disease for the private sector for 1972-1976 was 1.5 cases per 1,000 workers, according to BLS data. During 1975 one of every 11 private-sector employees (9.1 percent) experienced a job-related injury or illness of some kind. The vast majority of these (96.7 percent) were classified as injuries; only 3.27 percent were classified as illnesses, and only 1.49 percent were skin diseases or disorders. Comparison of the last two figures reveals the origin of the 40 percent figure for skin problems cited above.

Considered in perspective, these statistics seem to indicate that occupational illness is a very minor proportion of total occupational health problems. However, a Stanford Research Institute report and the Discher Report, both of which evaluated existing data sources of occupational health statistics, cast considerable doubt on such a conclusion. The serious under-reporting of occupational disease and the inadequacy of the reporting system may mean that the true incidence is anywhere from 10 to 50 times greater than reported in the BLS data. Schwartz, Tulipan, and Birmingham have indicated that approximately 1 percent of the work force may be affected by occupational skin disease at any given time. Data from the 1976 BLS annual survey show that occupational skin diseases or disorders were unevenly distributed among industries. These diseases are more prevalent in agriculture and manufacturing: the agriculture industry, which employed 1 percent of the private sector work force, had 4 percent; manufacturing, with 30 percent of the work force, accounted for 65 percent of skin disease. The agriculture industry had the highest incidence for both total cases and lost workday cases, the second highest incidence rate for lost workdays, and the second highest for the other two types of cases. All other industries had low incidence rates for all three aspects of cases.

Annual cost of occupational skin disease could be used as a measure of the significance of occupational skin disease. Using the BLS data and averaging the 1975-1976 figures, approximately 200,000 lost workdays are attributable annually to occupationally induced skin problems. Assuming an average pay rate of \$6.00 per hour, this represents a direct economic cost due to the lost productivity of absent workers of \$9.6 million. Adding the cost of a less efficient replacement worker, indemnity, medical costs, and insurance could easily increase this figure two to three times (i.e., to \$20-30 million annually).

Office of Extramural Coordination and Special Projects

The OECSP dermatology program, established at the request of Congress, includes all aspects of occupationally related dermatology, both intramural and extramural, clinical, research, and training. Assistance is provided to DSHEFS and DRDS HHEs that involve skin problems. This consists of both informal consultations with the investigator and field visits with formal consultation reports. Similar assistance is provided for industrywide studies, in both their planning and conduct. With respect to the extramural grants program, assistance is provided to prospective grantees upon their request. Upon receipt of grant applications, assistance is provided to the Grants Administration and Review Branch in obtaining appropriate outside reviews of dermatology grants. Once approved, assistance is provided in preparing for the Institute's secondary review of grants. Once awarded, technical advice is provided.

Liaison with national dermatologic organizations is provided. An OECSP representative is a member of the American Academy of Dermatology's Task Force on Occupational and Environmental Dermatology and its NIH Liaison Steering Committee. Training is provided to Epidemic Intelligence Service officers both formally in the form of lectures, such as at DSHEFS scientific seminars and the OECSP occupational medicine course, and informally in relation to clinical studies. An AAD-accredited Continuing Medical Education course in occupational dermatology will be given every 2 to 3 years, cosponsored by OECSP and an academic center. Assistance is provided in the peer review of intramural skin research projects, usually in DBBS. Similar assistance is provided in the preparation of skin-related Requests for Proposals and the review of responses to those RFPs, again usually for DBBS. Liaison is provided with other Federal agencies involved in dermatologic research. An OECSP representative is a member of the Ad Hoc Interagency Dermatology Working Group which includes representatives from EPA, FDA, and various Institutes within NIH.

Division of Biomedical and Behavioral Sciences

DBBS is currently assessing existing methods, and developing new methods, for identifying phototoxic compounds and for determining percutaneous absorption rates of chemicals through intact skin. A study for OSHA completed during FY 1981 determined the degree of penetration of the skin and uptake by the body of MOCA [4,4'-methylenebis(2-chloroaniline)]. The techniques developed, including monitoring of metabolites in urine excretion, will be extended to a similar study of glycol ether mixtures in FY 1982. This program is expected to facilitate early identification of cutaneous hazards and provide support for control technology and protective clothing research.

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	C	PLANNED COMPLETION				P M F R E U O C N G H D	PY	RESOURCES	
			1Q	2Q	3Q	4Q			NPF	TF
									\$1000	\$1000
*****CUTANEOUS DISORDERS*****										
									J	2951
									J	2952
DIVISION OF BIOMEDICAL AND BEHAVIORAL SCIENCE									A	J
									J	2953
									A	J
									J	2954
1. Cutaneous Toxicity Hazards (A. Susten, 684-8357)	80	85					J c a		AchyyJ	2956
(V00-cFh-335)(2.4/34.5/100.0)(2.4/5.0/73.0)(2.4/5.0/73.0)									AchyyJ	2957
(0.2/5.0/10.0)(100/V00-Jhy-335)									AchyyJ	2958
.1 Submit progress report to Director, DBBS									AchyyJ	2959
.2 Complete literature review (4Q80)									AchyyJ	2960
.3 Objective 1: Irritation and Sensitization Studies									AchyyJ	2961
on NIOSH priority chemicals									AchyyJ	2962
a. Develop hazard data sheet (1Q, 3Q80)									AchyyJ	2963
b. Submit H.D.S. to Director, DBBS (1Q, 3Q80)									AchyyJ	2964
c. Submit H.D.S. to all project staff (1Q, 3Q80)									AchyyJ	2965
d. Complete acrolein study (2Q80)									AchyyJ	2966
e. Complete N,N-dimethylacetamide study (4Q80)									AchyyJ	2967
f. Complete ethyl silicate (3Q80)									AchyyJ	2968
.4 Objective 2: Photosensitization									AchyyJ	2969
a. Initiate comparisons of scoring methods (1Q81)									AchyyJ	2970
b. Initiate literature review of screening methods (1Q81)									AchyyJ	2971
c. Complete review of screening methods (2Q81)									AchyyJ	2972
d. Complete comparisons of scoring methods									AchyyJ	2973
e. Initiate in vivo tests of chemicals									AchyyJ	2974
f. Initiate in vitro tests or biochemical screens									AchyyJ	2975
g. Complete in vitro or biochemical screening (2Q84)									AchyyJ	2976
h. Submit final report to Director, DBBS (4Q84)									AchyyJ	2977
i. Submit abstract to Director, NIOSH (4Q84)									AchyyJ	2978
.5 Objective 3: Percutaneous Absorption Model									AchyyJ	2979
a. Initiate testing of chamber design (vapors)(3Q81)									AchyyJ	2980
b. Complete testing of chamber design (vapors)									AchyyJ	2981
c. Initiate percutaneous absorption kinetics study									AchyyJ	2982
d. Complete kinetic study (1Q83)									AchyyJ	2983
e. Initiate testing of system for liquids									AchyyJ	2984
f. Complete testing of system for liquids (2Q83)									AchyyJ	2985
g. Initiate testing (liquids) in second species (3Q83)									AchyyJ	2986
h. Complete testing (liquids) in (1Q85)									AchyyJ	2987
i. Submit report to Director, DBBS (1Q85)									AchyyJ	2988
.6 Submit final overall project report to Director, DBBS (4Q85)									AchyyJ	2989
.7 Subject abstract to Director, NIOSH (4Q85)									AchyyJ	2990
.8 Submit project records to Q.A. Unit, DBBS (4Q85)									AchyyJ	2991
									AchyyJ	2992
									AchyyJ	2993

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY		PLANNED COMPLETION				P M F	PY	RESOURCES		
	I	C	1Q	2Q	3Q	4Q	O C N		G H D	NPF	TF
2. Effects of Physical Trauma on the Skin (A. Susten, 684-8357) (V00-cFf-336)(1.3/15.0/50.0)(0.4/1.0/15.0)(100/V00-Jyy-336)	81	84					J b a				
.1 Complete peer review (1Q81)									AcyyyJ	2996	
.2 Submit progress report to Director, DBBS				o	o	o	o		AcyyyJ	2997	
.3 Objective I: Review and analysis of World's Literature									AcyyyJ	2998	
a. Submit RFC to Director, DBBS (1Q81)									AcyyyJ	2999	
b. Submit RFC to OAMS (2Q81)									AcyyyJ	3000	
c. Award contract (4Q81)									AcyyyJ	3001	
d. Review monthly progress reports				o	o	o	o		AcyyyJ	3002	
e. Review quarterly progress reports				o	o	o	o		AcyyyJ	3003	
f. Review draft final report						o			AcyyyJ	3004	
g. Review final literature report							o		AcyyyJ	3005	
.4 Objective II-Symposium/Workshop									AcyyyJ	3006	
a. Initiate planning for Workshop							o		AcyyyJ	3007	
b. Hold symposium/Workshop (3Q83)									AcyyyJ	3008	
c. Review draft final report of symposium proceedings (4Q83)									AcyyyJ	3009	
d. Submit final report to Director, DBBS (2Q84)									AcyyyJ	3010	
e. Submit abstract to Director, NIOSH (2Q84)									AcyyyJ	3011	
.5 Submit project report to Director, DBBS (3Q84)									AcyyyJ	3012	
.6 Submit abstract to Director, NIOSH (3Q84)									AcyyyJ	3013	
.7 Submit project records to Q.A. Unit, DBBS (3Q84)									AcyyyJ	3014	
OFFICE OF EXTRAMURAL COORDINATION AND SPECIAL PROJECTS									AcyyyJ	3015	
3. Chlorance: Mechanisms of Pathogenesis (1108)-- 8/31/83--\$60,370--A. Moshell									F J	3016	
									F J	3017	
4. Accommodation and Tolerance in Humans and Guinea Pigs (1124) 8/31/83--\$79,245--A. Moshell									F J	3018	
									F J	3019	
5. Photochemical Processes and Occupational Dermatoses (1119)-- 8/31/83--\$117,633--A. Moshell									F J	3020	
									F J	3021	
6. Coal Liquids: Skin Toxicity and Mutagenicity Studies (1149) 8/31/83--\$84,500--A. Moshell (0/0.5/0.5)(100/VCE-Xyy-888)									F J	3022	
									F J	3023	
									F J	3024	
7. Research and Demonstration Grants - Cutaneous Disorders (Moshell, 443-4493) (0/0.9/0.9)(100/VCE-Jyy-891)	71	C					J e a		FayyyJ	3025	
									FayyyJ	3026	
									FayyyJ	3027	
									FayyyJ	3028	

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY				PLANNED COMPLETION				P M F			RE U		O C N		RESOURCES	
	I	C	1Q	2Q	3Q	4Q	G	H	D	PY	\$1000	\$1000	NPF	TF			
8. NIOSH Dermatology Program (Moshell, 443-6437) (1.3/0.015/0.050) (VCA-Jyy-886)	82	C								J c a			FFyyyJ	3040			
													FFyyyJ	3041			
													FFyyyJ	3042			
.1 Provide medical backup to HETAB for HHE's requiring dermatologic expertise			3	6	9	12							FFyyyJ	3043			
													FFyyyJ	3044			
.2 Extramural Grants Program													FFyyyJ	3045			
a. Assist prospective grantees			o	o	o	o							FFyyyJ	3046			
b. Assist in providing research grant reviews for applications submitted to Occupational Safety and Health Study Section			o	o	o								FFyyyJ	3047			
													FFyyyJ	3048			
c. Assist in secondary review			o	o	o								FFyyyJ	3049			
d. Act as T.A. for funded research grants													FFyyyJ	3050			
.01 Submit renewal reports to GARB						7							FFyyyJ	3051			
													FFyyyJ	3052			
.3 Liaison with dermatologic organizations													FFyyyJ	3053			
a. Attend AAD Task Force meetings			1		2								FFyyyJ	3054			
b. Attend American Academy of Dermatology NIH Committee meeting			1		2								FFyyyJ	3055			
													FFyyyJ	3056			
.4 Training													FFyyyJ	3057			
a. Give dermatology lecture at NIOSH Occupational Medicine Course			o										FFyyyJ	3058			
													FFyyyJ	3059			
b. Give dermatology lectures to NIOSH EIS officers			1	2	3								FFyyyJ	3060			
c. Organize Occupational Dermatology Continuing Medical Education Course					o								FFyyyJ	3061			
													FFyyyJ	3062			
.5 Intramural NIOSH dermatologic research projects													FFyyyJ	3063			
a. Peer review research projects			o	o	o	o							FFyyyJ	3064			
b. Peer review RFP's			o	o	o	o							FFyyyJ	3065			
c. Peer review contract proposals			o	o	o	o							FFyyyJ	3066			
.6 Liaison with other government agencies													FFyyyJ	3067			
a. Represent NIOSH at ad hoc Interagency Dermatology Working Group					o								FFyyyJ	3068			
													FFyyyJ	3069			
b. Collaborate with Dermatology Branch, NCI, on research relevant to NIOSH needs			o	o	o	o							FFyyyJ	3070			
													FFyyyJ	3071			
													FFyyyJ	3072			
OFFICE OF THE DIRECTOR													K J	3074			
													K J	3075			
9. Pathomechanisms of Chemically Induced Pigmentation (714)-- 7/31/83--\$70,000--L.Hatch													K J	3077			
													K J	3078			
													K J	3079			

CARDIOVASCULAR DISORDERS

Many exposures in the workplace have been shown to have an effect on the cardiovascular system of American workers. Many other exposures have not been evaluated with respect to their potential insults to the cardiovascular system. Most of the Institute's previous experience in cardiovascular research involved the heart and the major vessels of the cardiovascular system. This area needs to be continued and expanded. In addition, since the cardiovascular system of the lung is only a few micrometers from the airspaces in the lung, airborne contaminants can be expected to have an effect on the cardiopulmonary system. However, the effects of most workplace contaminants on the cardiopulmonary system have not been evaluated. NIOSH should support studies that evaluate the potential hazards involved.

It is particularly important to develop appropriate animal models for the testing and evaluation of workplace hazards. The results from the animal studies need to be coordinated with studies evaluating the potential hazards in the workplace, with epidemiologic studies, and with the groups developing control technology designed to eliminate or reduce exposure levels. The animal models will be helpful in elucidating disease mechanisms as well as confirming preliminary epidemiologic information. In fact, positive results in studies using animal models will permit epidemiologic studies to be initiated where potential cardiovascular problems may exist.

Division of Respiratory Disease Studies

1. Appropriate animal models of cardiovascular disease need to be developed for laboratory testing of occupational hazards.
2. Epidemiology related to stress and cardiovascular disease needs to be continued and expanded.

Division of Surveillance, Hazard Evaluations, and Field Studies

DSHEFS has three ongoing studies where the effects of occupational exposure on the cardiovascular system are specifically being examined. (Excess risk of dying from cardiovascular disease is, of course, evaluated in all mortality studies that are conducted.) One of these studies involves workers exposed to nitroglycerin, which has been associated with symptoms of cardiovascular disease and sudden cardiac death. This study, which is a retrospective cohort mortality design, along with a detailed industrial hygiene survey, is expected to be completed in FY 1982. The second study is a

cross-sectional medical and industrial hygiene survey of workers exposed to carbon disulfide, which is in its final stages of completion. The third study is a retrospective cohort mortality study of bridge and tunnel workers exposed to carbon monoxide. A study of motor vehicle examiners exposed to lower levels of carbon monoxide was completed in FY 1980.

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	P M F R E U O C N G H D				RESOURCES	
	PLANNED COMPLETION				NPF	TF
	FY I C	1Q	2Q	3Q	4Q	PY \$1000 \$1000
*****CARDIOVASCULAR DISORDERS*****						L 3083
						L 3084
DIVISION OF BIOMEDICAL AND BEHAVIORAL SCIENCE						A L 3085
						A L 3086
1. Cardiac Toxicity of Inhaled Amines (D. Lynch 684-8274) (V00-CHK-339)(0.3/13.5/22.0)(100/V00-Lhy-339)	81	83				L c a 3088
.1 Complete peer review (1Q81)						AchyyL 3089
.2 Develop hazard data sheet (H.D.S.)(1Q81)						AchyyL 3090
.3 Submit H.D.S. to Director, DBBS (1Q81)						AchyyL 3091
.4 Submit H.D.S. to all project staff (1Q81)						AchyyL 3092
.5 Submit progress report to Director, DBBS						AchyyL 3093
.6 Initiate evaluation criteria development for ECG (2Q81)						AchyyL 3094
.7 Complete evaluation criteria development for ECG (2Q81)						AchyyL 3095
.8 Initiate range finding studies						AchyyL 3096
a. Allylamine (2Q81)						AchyyL 3097
b. Triethylamine (4Q81)						AchyyL 3098
.9 Complete range finding studies						AchyyL 3099
a. Allylamine (3Q81)						AchyyL 3100
b. Triethylamine (4Q81)						AchyyL 3101
.10 Initiate methods development for mitochondria (2Q81)						AchyyL 3102
.11 Complete methods development for mitochondria (3Q81)						AchyyL 3103
.12 Initiate 90-day exposures						AchyyL 3104
a. Allylamine (4Q81)						AchyyL 3105
b. Triethylamine (4Q81)						AchyyL 3106
c. Amine #3						AchyyL 3107
d. Amine #4						AchyyL 3108
.13 Complete 90-day exposures						AchyyL 3109
a. Allylamine						AchyyL 3110
b. Triethylamine						AchyyL 3111
c. Amine #3 (1Q83)						AchyyL 3112
d. Amine #4 (1Q83)						AchyyL 3113
.14 Complete pathology						AchyyL 3114
a. Allylamine						AchyyL 3115
b. Triethylamine						AchyyL 3116
c. Amine #3 (3Q83)						AchyyL 3117
d. Amine #4 (3Q83)						AchyyL 3118
.15 Complete data analysis (4Q83)						AchyyL 3119
.16 Submit final report to Director, DBBS (4Q83)						AchyyL 3120
.17 Submit abstract to Director, NIOSH (4Q83)						AchyyL 3121
.18 Submit project records to Q.A. Unit, DBBS (4Q83)						AchyyL 3122
						AchyyL 3123
						AchyyL 3124
						AchyyL 3125

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	P M F R E U O C N G H D										RESOURCES NPF TF PY \$1000 \$1000	
	FY		PLANNED COMPLETION									
	I	C	1Q	2Q	3Q	4Q						
2. Cardiopulmonary Animal Modeling (W. Moorman, 684-8275) (0.1/1.8/4.8)(100/V00-Lyy-310)	82	83					L	c	a			AcyyyL 3128
												AcyyyL 3129
												AcyyyL 3130
.1 Complete peer review				o								AcyyyL 3131
.2 Submit final protocol to Director, DBBS				o								AcyyyL 3132
.3 Submit progress report to Director, DBBS				o	o	o	o					AcyyyL 3133
.4 Initiate pulmonary comparisons					o							AcyyyL 3134
.5 Complete pulmonary comparisons						o						AcyyyL 3135
.6 Initiate ECG comparisons						o						AcyyyL 3136
.7 Complete ECG comparisons (1Q83)												AcyyyL 3137
.8 Submit final report to Director, DBBS (3Q83)												AcyyyL 3138
.9 Submit abstract to Director, NIOSH (3Q83)												AcyyyL 3139
.10 Submit project records to Q.A. Unit, DBBS (4Q83)												AcyyyL 3140
												AcyyyL 3141
DIVISION OF RESPIRATORY DISEASE STUDIES												C L 3143
												C L 3144
3. Pathology/Microanalysis Support for DRDS (Tucker J 304-599-7581) (VKC-uDp-116)(100/VCD-Lyd-116)	80	C					L	c	a			CdydgL 3146
												CdydgL 3147
												CdydgL 3148
and tissue processing to all DRDS projects where pathology support is required				o	o	o	o					CdydgL 3149
.2 Provide elemental analysis, mineral identifications, and electron microscopical and scanning electron microscopical studies to Divisional research investigations				o	o	o	o					CdydgL 3150
				o	o	o	o					CdydgL 3151
.3 Support Environmental Investigations Branch investigations by providing dust analysis and training EIB personnel in method of preparing samples for TEM, SEM, and XES analysis				o	o	o	o					CdydgL 3152
				o	o	o	o					CdydgL 3153
.4 Provide histopathological evaluation of tissue and interpretations of results				o	o	o	o					CdydgL 3154
				o	o	o	o					CdydgL 3155
.5 Processing, investigations and interpretations of biopsy and autopsy tissues and reporting to pathologists around the country				o	o	o	o					CdydgL 3156
				o	o	o	o					CdydgL 3157
				o	o	o	o					CdydgL 3158
				o	o	o	o					CdydgL 3159
				o	o	o	o					CdydgL 3160
				o	o	o	o					CdydgL 3161
				o	o	o	o					CdydgL 3162
				o	o	o	o					CdydgL 3163
				o	o	o	o					CdydgL 3164

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY				P M F				RESOURCES	
	PLANNED COMPLETION				R E U				NPF TF	
	I	C	1Q	2Q	3Q	4Q	O	C	PY	\$1000 \$1000
DIVISION OF SURVEILLANCE, HAZARD EVALUATIONS AND FIELD STUDIES										
4. Mortality and Industrial Hygiene Study of Workers Exposed to Nitroglycerin (Gordon Reeve 513-684-2352) (0.5/40.0/55.0)(100/VMH-Lyy-557)	80	83					L	c a		
A. Complete industrial hygiene surveys (4Q80).									D	L 3167
B. Complete demographic and work history coding (3Q81).									D	L 3168
C. Complete application of follow-up data to master file.									D	b y y y L 3169
D. Complete preparation of master file.									D	b y y y L 3170
E. Complete data analyses.									D	b y y y L 3171
F. Determine necessity for using internal control group.									D	b y y y L 3172
G. Complete report on life table analyses and submit abstract to Director, NIOSH and copy to DTS (1Q83).									D	b y y y L 3173
									D	b y y y L 3174
									D	b y y y L 3175
									D	b y y y L 3176
									D	b y y y L 3177
									D	b y y y L 3178
									D	b y y y L 3179
									D	b y y y L 3180
									D	b y y y L 3181
5. Mortality and Industrial Hygiene Study of Workers Exposed to Carbon Monoxide (Frank Stern 513-684-2761) (2.0/30.0/85.0)(1.0/30.0/60.0)(100/VMH-Lyy-558)	80	84					L	c a		
A. Complete peer review (3Q80).									D	b y y y L 3184
B. Initiate coding of demographic information (2Q81).									D	b y y y L 3185
C. Complete indepth industrial hygiene surveys.									D	b y y y L 3186
D. Initiate vital status follow-up.									D	b y y y L 3187
E. Complete industrial hygiene report.									D	b y y y L 3188
F. Initiate acquisition of death certificates.									D	b y y y L 3189
G. Complete 95% follow-up (4Q83).									D	b y y y L 3190
H. Complete final report and submit abstract to Director, NIOSH and copy to DTS (4Q84).									D	b y y y L 3191
									D	b y y y L 3192
									D	b y y y L 3193
									D	b y y y L 3194
									D	b y y y L 3195
									D	b y y y L 3196
									D	b y y y L 3197

CANCER

The occurrence of occupational cancer has been known for over 200 years with the discovery of scrotal cancer in chimney sweeps. The issue of how much cancer can be attributed to occupation has been particularly controversial following a 1978 DHEW report on this subject. It should be noted that each year about 400,000 Americans die from cancer. If occupation were a factor in only 5 percent of these deaths, then 20,000 deaths each year from cancer may be related to the workplace, at least in part. The only way to resolve this controversy is through additional scientific research.

One of the problems in identifying occupationally related cancer is that cancers generally become manifest in humans from 20 to 40 years after the first exposure. In order to develop a comprehensive understanding of occupationally induced cancers, NIOSH has been conducting epidemiologic research. For example, the known occupational carcinogens that produce human cancers were discovered through epidemiologic studies. NIOSH can learn of possible cancer incidence in the workplace from individual workers, unions, industrial scientists, news media, government agencies, or scientific publications. With the more than 1,000 new chemicals being introduced into the U.S. workplace each year, occupational cancer-related problems may become even more complex in the future.

Over the last 5 years, approximately 50 to 70 percent of NIOSH's occupational cancer research was supported through an interagency agreement with NCI. Since its inception, NCI has provided NIOSH with more than \$15 million to conduct more than 65 research projects dealing with a broad spectrum of topics related to cancer in the workplace. Approximately 20 projects are currently under way. NIOSH has worked closely with NCI under the interagency agreement and has participated in two collaborative workshops with NCI and EPA. Future collaboration between NCI and NIOSH will continue through joint project officers on interagency projects.

Division of Biomedical and Behavioral Sciences

The DBBS toxicology program in carcinogenesis extends beyond the bioassay screening of single chemicals by the NTP, to include assessment of the carcinogenic potential of complex mixtures, modifications of carcinogenesis by promoters, and the etiology of the carcinogenic process in various workplace environments.

Completed laboratory studies have demonstrated the carcinogenicity, through dermal exposure, of such roofing material components as asphalt fumes and pitch. Other studies have demonstrated and/or delineated the carcinogenicity of a wide variety of compounds from antimony compounds to toluidine isomers.

For FY 1982, resources will be directed at:

1. Identification of carcinogenic agents in complex occupational environments such as newsprint ink, foundry particulates, and insulation products.
2. Investigation of the carcinogenic interaction between single chemical agents (e.g., dichloroethane) and (a) common prescription drugs used by workers, and (b) physical agents (e.g., ultraviolet lights).
3. Development of in vitro methods that can be used to screen industrial chemicals for cocarcinogenic/promotion potential.
4. Expansion of research on the role of pulmonary fibrosis in the development of lung cancer.

Division of Surveillance, Hazard Evaluations, and Field Studies

The approach in which cancer research is conducted in DSHEFS involves several levels of epidemiologic study. Under DSHEFS surveillance activities, cancer risk among occupational groups is assessed using existing record systems such as tumor registries, State and Federal vital statistics, and the SSA. These studies usually generate hypotheses that require further study. In FY 1981 and continuing into FY 1982, maps for the United States will be systematically developed according to exposures or use of specific chemicals, as well as by occurrence of specific diseases, including cancer. An association between exposure and cancer within specific areas of the country will then be examined. The information generated from this surveillance effort will be assessed for further study by groups outside of NIOSH, as well as by researchers in DSHEFS.

Within the DSHEFS industrywide studies program, investigations are conducted to determine whether or not specific occupational exposures or work within certain occupational groups in general are associated with an increased risk of developing cancer. The ultimate goal of the studies is to identify whether or not certain industrial chemicals are cancer-causing agents. The research involves the identification of worker populations that lend themselves to epidemiologic research. In addition, detailed industrial hygiene surveys are usually conducted to describe the actual levels of exposure experienced by the study population. Industrywide epidemiologic/industrial hygiene studies of this type have been instrumental in achieving lower exposures to certain chemicals in the workplace.

In order to more effectively assess the potential for conducting large-scale epidemiologic studies, a better system of feasibility testing has been established. Assistance in epidemiology and industrial hygiene also has been offered to unions, industry, and other parties interested in occupational health problems.

During FY 1981, cancer epidemiologic studies of occupational groups have continued and many will continue into FY 1982 and 1983. Each study is at a different phase of completion and several have been completed this year [i.e., retrospective cohort mortality studies of workers in nuclear shipyards, the petrochemical industry, and dry-cleaning establishments (perchloroethylene exposures); proportionate mortality studies of workers in the petrochemical industry and boilermakers union; case-control studies of petrochemical workers; and industrial hygiene characterization studies of petroleum refineries, wood preservative operations, heat-sealing operations, carbon disulfide in viscose rayon operations, and perchloroethylene in dry-cleaning operations].

New methods of analysis continue to be developed and refined. Due to the recent Supreme Court decision regarding benzene, analytical designs are being developed to provide a better risk assessment in terms of dose/response.

Office of Extramural Coordination and Special Projects

As the Institute coordinator for the NCI-NIOSH interagency agreement relating to occupational cancer research, OECSP attempts to ensure that milestones are being met and that monies are being spent on schedule and as originally intended. OECSP identifies potential problem areas concerned with the interagency agreement for discussion or resolution with NCI, possibly resulting in a modification to the agreement. Preparation of programmatic and financial reports as well as research summaries, including annual and semiannual progress reports, to NCI is coordinated through OECSP. Solicitation of new project areas from NIOSH O/Ds to be considered by NCI for new funding under the interagency agreement is another function of the office. OECSP works closely with NIOSH research O/D directors, as well as with the Director of the Office of Program Planning and Evaluation, in this regard.

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY				PLANNED COMPLETION				P M F			RE U		O C N		RESOURCES	
	I C		1Q	2Q	3Q	4Q	G	H	D	PY		NPF	TF			\$1000	\$1000
*****CANCER*****																	
DIVISION OF BIOMEDICAL AND BEHAVIORAL SCIENCE																	
1. Foundry Pyrolysis Effluent-Carcinogenesis (W. Moorman 684-8275) (VOO-cBD-326)(0.1/0.6/5.0)(0.1/0.6/4.5)(100/VOO-Myy-326)	78	84									M a e						
.1 Complete peer review (1Q78)																	M 3201
.2 Submit RFC to contract office (2Q78)																	M 3202
.3 Award contract (210-78-0033) (3Q78)																	A M 3203
.4 Initiate experimental protocol (1Q79)																	A M 3204
.5 Complete contract modification to include additional binder (furan)(1Q79)																	AcyyyM 3206
.6 Consult Information Office (1Q80)																	AcyyyM 3207
.7 Complete analytical phases (2Q80)																	AcyyyM 3208
.8 Initiate prechronic IT injections (2Q80)																	AcyyyM 3209
.9 Complete prechronic IT injections (4Q80)																	AcyyyM 3210
.10 Initiate chronic IT injections (4Q80)																	AcyyyM 3211
.11 Complete chronic IT injections (4Q81)																	AcyyyM 3212
.12 Review progress reports																	AcyyyM 3213
.13 Complete chronic bioassay (1Q83)																	AcyyyM 3214
.14 Complete pathology (3Q83)																	AcyyyM 3215
.15 Receive draft final report (1Q84)																	AcyyyM 3216
.16 Submit final report to Director, DBBS (2Q84)																	AcyyyM 3217
.17 Submit abstract to Director, NIOSH (2Q84)																	AcyyyM 3218
.18 Submit project records to Q.A. Unit, DBBS (4Q84)																	AcyyyM 3219
2. Etiology of Newspaper Workers Cancer (R. Niemeier, 684-8394) (0.1/155.0/160.0)(0.1/106.0/109.6)(.2/1.0/8.2)(100/VOO-Mhy-315)	82	85									M a e						AcyyyM 3220
.1 Complete peer review																	AcyyyM 3221
.2 Submit RFC to OAMS																	AcyyyM 3222
.3 Obtain samples for testing																	AcyyyM 3223
.4 Award contract																	AcyyyM 3224
.5 Submit progress report to Director, DBBS																	AcyyyM 3225
.6 Perform site visit (2Q83)(4Q83)(2Q84)(4Q84)																	AcyyyM 3226
.7 Initiate animal studies (1Q83)																	AcyyyM 3227
.8 Review progress reports																	AcyyyM 3228
.9 Complete animal studies (4Q84)																	AcyyyM 3229
.10 Complete pathology evaluations (3Q85)																	AcyyyM 3230
.11 Review draft final report (4Q85)																	AcyyyM 3231
.12 Submit final report to Director, DBBS (4Q85)																	AcyyyM 3232
.13 Submit abstract to Director, NIOSH (4Q85)																	AcyyyM 3233
.14 Submit project records to Q.A. Unit, DBBS (4Q85)																	AcyyyM 3234
																	AcyyyM 3235
																	AcyyyM 3236
																	AcyyyM 3237
																	AcyyyM 3238
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																	AcyyyM 3246
																	AcyyyM 3247
																	AcyyyM 3248

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY				P M F				RESOURCES	
	PLANNED COMPLETION				R E U				NPF TF	
	O C N				G H D				PY \$1000 \$1000	
	I	C	1Q	2Q	3Q	4Q				
3. Diesel Exhaust/Coal Dust Animal Studies (T. Lewis, 684-8392) (V00-cBi-325)(0.3/181.3/196.0)(100/V00-Mhy-325)	78	83					M b c			
.1 Complete peer review (1Q78)									AcmyyM	3251
.2 Prepare interagency agreement (3Q78)(4Q79)(4Q80)(4Q81)									AcmyyM	3252
.3 Begin facility setup (1Q79)									AcmyyM	3253
.4 Complete facility set up (4Q79)									AcmyyM	3254
.5 Initiate generation system set-up (4Q79)									AcmyyM	3255
.6 Characterize emissions (4Q79)									AcmyyM	3256
.7 Award interagency agreement (1Q79)(1Q80)(1Q81)									AcmyyM	3257
.8 Consult Information Office (1Q80)									AcmyyM	3258
.9 Initiate animal exposures (2Q80)									AcmyyM	3259
.10 Submit progress report to Director, DBBS									AcmyyM	3260
.11 Perform 6-month response studies (rats) (4Q80)(2Q81)(4Q81)									AcmyyM	3261
.12 Initiate exposure of monkeys (1Q81)									AcmyyM	3262
.13 Perform 6-month pulmonary tests (monkeys)(3Q81)(1Q83)									AcmyyM	3263
.14 Complete terminal sacrifice of rats									AcmyyM	3264
.15 Initiate infectivity/mutagenicity testing									AcmyyM	3265
.16 Complete infectivity/mutagenicity testing									AcmyyM	3266
.17 Complete terminal sacrifice of monkeys (1Q83)									AcmyyM	3267
.18 Receive pathology reports (2Q83)									AcmyyM	3268
.19 Review draft final report (3Q83)									AcmyyM	3269
.20 Submit final report to Director, DBBS (4Q83)									AcmyyM	3270
.21 Submit abstract to Director, NIOSH (4Q83)									AcmyyM	3271
.22 Submit project records to Q.A. Unit, DBBS (4Q83)									AcmyyM	3272
4. Dichloroethane: Drug Interactions (K. Cheever 684-8497) (V00-cBi-319)(0.1/150.0/154.4)(0.1/150.0/154.4)(0.1/50.0/55.0) (100/V00-Mhy-319)	81	85					M a e			
.1 Develop RFC (4Q80)									AchyyM	3273
.2 Complete peer review (1Q81)									AchyyM	3274
.3 Submit RFC to Director, DBBS (1Q81)									AchyyM	3275
.4 Submit RFC to Contracting Office, OAMS (2Q81)									AchyyM	3276
.5 Award contract (4Q81)									AchyyM	3277
.6 Submit progress report to Director, DBBS									AchyyM	3278
.7 Make site visit to contractor (1Q83)(3Q83)(1Q84)									AchyyM	3279
.8 Initiate inhalation exposures									AchyyM	3280
.9 Complete inhalation exposures (4Q83)									AchyyM	3281
.10 Complete histopathologic evaluations (1Q84)									AchyyM	3282
.11 Review draft final report from contractor (3Q84)									AchyyM	3283
.12 Submit final report to Director, DBBS (1Q85)									AchyyM	3284
.13 Submit abstract to Director, NIOSH (1Q85)									AchyyM	3285
.14 Submit project records to Q.A. Unit, DBBS (1Q85)									AchyyM	3286

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY		PLANNED COMPLETION				P M F		R E U		O C N		RESOURCES	
	I	C	1Q	2Q	3Q	4Q	G	H	D	PY	\$1000	\$1000	NPF	TF
5. Carcinogenicity of Aromatic Amines-Azo Dyes (T. Lewis, 684-8392) (V00-cBt-332)(100/V00-Myy-332)	78	82								M a a			AcyyyM	3300
.1 Complete peer review (1Q78)													AcyyyM	3301
.2 Submit RFC to contract office (2Q78)													AcyyyM	3302
.3 Award contract (210-78-0032) (3Q78)													AcyyyM	3303
.4 Initiate subchronic study (3Q79)													AcyyyM	3304
.5 Complete subchronic study (4Q79)													AcyyyM	3305
.6 Consult Information Office (1Q80)													AcyyyM	3306
.7 Initiate chronic feeding studies and IT dosing (1Q80)													AcyyyM	3307
.8 Complete IT dosing (2Q80)													AcyyyM	3308
.9 Submit contractor's progress report to Director, DBBS													AcyyyM	3309
.10 Complete chronic feeding studies													AcyyyM	3310
.11 Complete sacrifice of rats and hamsters													AcyyyM	3311
.12 Complete pathology													AcyyyM	3312
.13 Review draft final report from contractor													AcyyyM	3313
.14 Submit final report to Director, DBBS													AcyyyM	3314
.15 Submit abstract to Director, NIOSH													AcyyyM	3315
.16 Submit manuscript for journal publication													AcyyyM	3316
.17 Submit project records to Q.A. Unit, DBBS													AcyyyM	3317
6. Inhalation Toxicity of Organic Oxides (D. Lynch, 684-8274) (V00-cXh-330)(100/V00-Mhy-330)	78	82								M c a			AcyyyM	3318
.1 Complete peer review (2Q78)													AcyyyM	3319
.2 Standardize and calibrate new inhalation chambers (1Q79)													AcyyyM	3320
.3 Initiate inhalation exposures to ethylene oxide and propylene oxide (3Q79)													AcyyyM	3321
.4 Consult Information Office (1Q80)													AcyyyM	3322
.5 Submit progress report to Director, DBBS													AcyyyM	3323
.6 Perform 6-month testing (1Q80)(3Q80)(1Q81)(3Q81)													AcyyyM	3324
.7 Complete inhalation exposures (3Q81)													AcyyyM	3325
.8 Perform terminal sacrifice (3Q81)													AcyyyM	3326
.9 Complete pathology reports													AcyyyM	3327
.10 Complete data analysis													AcyyyM	3328
.11 Submit final project report to Director, DBBS													AcyyyM	3329
.12 Submit abstract to Director, NIOSH													AcyyyM	3330
.13 Submit project records to Q.A. Unit, DBBS													AcyyyM	3331
													AcyyyM	3332
													AcyyyM	3333
													AcyyyM	3334
													AcyyyM	3335
													AcyyyM	3336
													AcyyyM	3337
													AcyyyM	3338
													AcyyyM	3339
													AcyyyM	3340

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY		PLANNED COMPLETION				P M F			RESOURCES	
	I C		1Q	2Q	3Q	4Q	O C N	G H D	PY	NPF	TF
										\$1000	\$1000
7. Co-Carcinogenicity of Foundry Particulates (R Niemeier 684-8394) (V00-cBy-320)(0.1/1.3/4.3)(0.1/0.9/4.3)(100/V00-Mny-320)	79	83					M a e				
.1 Complete literature search and peer review (1Q79)										AcnyyM	3343
.2 Submit RFC to contract office (2Q79)										AcnyyM	3344
.3 Award contract (210-79-0036) (4Q79)										AcnyyM	3345
.4 Consult Information Office (1Q80)										AcnyyM	3346
.5 Initiate animal treatments (3Q80)										AcnyyM	3347
.6 Complete 15 weekly administrations of test material (4Q80)										AcnyyM	3348
.7 Submit contractor's progress report to Director, DBBS			o	o	o	o				AcnyyM	3349
.8 Complete site visits (1Q81)(2Q81)				o		o				AcnyyM	3350
.9 Perform terminal sacrifice				o						AcnyyM	3351
.10 Complete pathology evaluation						o				AcnyyM	3352
.11 Review draft Final Report (1Q83)										AcnyyM	3353
.12 Submit final report to Director, DBBS (2Q83)										AcnyyM	3354
.13 Submit abstract to Director, NIOSH (2Q83)										AcnyyM	3355
.14 Submit manuscript for publication (3Q83)										AcnyyM	3356
.15 Submit project records to Q.A. Unit, DBBS (3Q83)										AcnyyM	3357
										AcnyyM	3358
										AcnyyM	3359
										AcnyyM	3360
										AcnyyM	3361

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY		PLANNED COMPLETION				P M F R E U O C N			RESOURCES		
	I	C	1Q	2Q	3Q	4Q	G	H	D	PY	NPF	TF
											\$1000	\$1000
8. In Vitro Tests for Workplace Cocarcinogens (J. Bohrman 684-8358) (V00-cBh-343)(1.5/155.0/200.0)(1.5/162.0/211.2)(1.5/20.0/70.0) (1.5/20.0/70.0)(100/V00-Mhy-343)	81	86							M	b	a	
.1 Initiate literature review (1Q81)												AchyyM 3364
.2 Submit progress reports to Director, DBBS				o	o	o	o					AchyyM 3365
.3 Complete literature review (2Q81)												AchyyM 3366
.4 Complete development of RFC (3Q81)												AchyyM 3367
.5 Complete peer review (4Q81)												AchyyM 3368
.6 Submit RFC to Director, DBBS (4Q81)												AchyyM 3369
.7 Submit RFC to OAMS (4Q81)												AchyyM 3370
.8 Complete new tissue culture laboratory set-up					o							AchyyM 3371
.9 Initiate in-house studies on methods development					o							AchyyM 3372
.10 Hazard Data Sheets (H.D.S.)												AchyyM 3373
a. Develop H.D.S.					o							AchyyM 3374
b. Submit H.D.S. to Director, DBBS					o							AchyyM 3375
c. Submit H.D.S. to all project staff					o							AchyyM 3376
.11 Award Contract #1 on Comparative Screening Methods					o							AchyyM 3377
.12 Complete in-house methods development studies (2Q84)												AchyyM 3378
.13 Initiate testing of field samples in-house (2Q84)												AchyyM 3379
.14 Review draft final report (2Q84)												AchyyM 3380
.15 Review final report (Contract #1)(3Q84)												AchyyM 3381
.16 Submit final contract report to Director, DBBS (3Q84)												AchyyM 3382
.17 Submit abstract final report to Director, NIOSH (3Q84)												AchyyM 3383
.18 Award Contract #2 (4Q84)												AchyyM 3384
.19 Review draft final report (2Q86)												AchyyM 3385
.20 Review final report (contract #2)(2Q86)												AchyyM 3386
.21 Complete in-house screening of field samples (4Q85)												AchyyM 3387
.22 Submit final report to Director, DBBS (3Q86)												AchyyM 3388
.23 Submit abstract to Director, NIOSH (3Q86)												AchyyM 3389
.24 Submit project records to Q.A. Unit, DBBS (4Q86)												AchyyM 3390
												AchyyM 3391
												AchyyM 3392
												AchyyM 3393
												AchyyM 3394
												AchyyM 3395

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	PLANNED COMPLETION						RESOURCES	
	FY		O C N				NPF TF	
	I	C	1Q	2Q	3Q	4Q	PY	\$1000 \$1000
9. Fibrogenicity & Pulmonary Carcinogenesis (T. Lewis 684-8392) (V00-cBD-324)(100/V00-Mny-324)	79	82					M a e	
.1 Conduct peer review (1Q79)							AcnyyM	3398
.2 Submit RFC to contract office (1Q79)							AcnyyM	3399
.3 Award contract (210-79-0038) (4Q79)							AcnyyM	3400
.4 Consult Information Office (1Q80)							AcnyyM	3401
.5 Obtain and characterize particulates to be supplied to contractor (1Q80)							AcnyyM	3402
.6 Initiate experimental work (1Q80)							AcnyyM	3403
.7 Submit contractor's progress report to Director, DBBS			o	o	o		AcnyyM	3404
.8 Complete experimental work			o				AcnyyM	3405
.9 Complete histopathology			o				AcnyyM	3406
.10 Review draft final report				o			AcnyyM	3407
.11 Submit final report to Director, DBBS					o		AcnyyM	3408
.12 Submit abstract to Director, NIOSH					o		AcnyyM	3409
.13 Submit project records to Q.A. Unit, DBBS					o		AcnyyM	3410
10. Fluoride & Carcinogenicity of Mineral Fibers (D. Groth 684-8361) (0.4/12.0/30.0)(0.4/5.0/23.0)(100/VOT/Mkg/376)	82	84					M c e	
.1 Submit peer review notice to Information Office			o				AdkgyM	3411
.2 Complete peer review			o				AdkgyM	3412
.3 Submit project protocol to OD, DBBS				o			AdkgyM	3413
.4 Order animals, chemicals, and diet.				o			AdkgyM	3414
.5 Inoculate animals					o		AdkgyM	3415
.6 Submit progress report to OD, DBBS			o	o	o	o	AdkgyM	3416
.7 Perform 12-month sacrifice (2Q83)							AdkgyM	3417
.8 Submit histopathology report to OD, DBBS (4Q83)							AdkgyM	3418
.9 Complete sacrifices (2Q84)							AdkgyM	3419
.10 Submit histopathology report to OD, DBBS (4Q84)							AdkgyM	3420
.11 Submit final project report to OD, DBBS (4Q84)							AdkgyM	3421
.12 Submit abstract of final report to OD, NIOSH (4Q84)							AdkgyM	3422
.13 Submit project records to Q. A. Unit, DBBS (4Q84)							AdkgyM	3423

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY		PLANNED COMPLETION				P M F		R E U		O C N		G H D		PY		RESOURCES			
	I C		1Q	2Q	3Q	4Q											NPF	TF		
																	\$1000	\$1000		
11. Carcinogenicity of Dimethylformamide (W. Wagner, 684-8433) (VOT-cBh-373)(0.1/1.0/5.0)(0.1/1.0/6.0)(0.1/1.0/7) (100/VOT-Mhy-373)	80	85																		
.1 Consult Information Office (1Q80)																			AdhyyM	3437
.2 Conduct project peer review (2Q80)																			AdhyyM	3438
.3 Submit RFC to Director, DBBS (2Q80)																			AdhyyM	3439
.4 Submit RFC to Contracting Office (2Q80)																			AdhyyM	3440
.5 Award contract (4Q81)																			AdhyyM	3441
.6 Submit progress report to Director, DBBS																			AdhyyM	3442
.7 Perform maximum tolerated dose (MTD) study																			AdhyyM	3443
.8 Monitor contract-site visit																			AdhyyM	3444
.9 Initiate chronic inhalation exposure study																			AdhyyM	3445
.10 Perform 6-month serial sacrifice and serum enzyme evaluations																			AdhyyM	3446
.11 Perform 12-month serial sacrifice and serum enzyme evaluations (2Q83)																			AdhyyM	3447
.12 Perform 18-month serial sacrifice and serum enzyme evaluations (4Q83)																			AdhyyM	3448
.13 Complete chronic inhalation exposures (2Q84)																			AdhyyM	3449
.14 Perform terminal sacrifice and serum enzyme evaluations, 30-month (4Q84)																			AdhyyM	3450
.15 Complete histologic evaluations (2Q85)																			AdhyyM	3451
.16 Receive draft of contractor's final report (3Q85)																			AdhyyM	3452
.17 Submit final report to Director, DBBS (4Q85)																			AdhyyM	3453
.18 Submit abstract to Director, NIOSH (4Q85)																			AdhyyM	3454
.19 Submit project records to Q. A. Unit, DBBS (4Q85)																			AdhyyM	3455
12. Metabolism of Azo Dyes to Aromatic Amines (L. Lowry, 684-8338) (VOT-cBr-372)(100/VOT-Myy-372)	80	82																	AdhyyM	3456
.1 Consult Information Office (1Q80)																			AdhyyM	3457
.2 Submit draft IA to Director, DBBS (2Q80)																			AdhyyM	3458
.3 Submit IA to NCTR (2Q80)																			AdhyyM	3459
.4 Award IA (4Q80)																			AdhyyM	3460
.5 Submit progress report to Director, DBBS																			AdhyyM	3461
.6 Conduct site visit (2Q81)(4Q81)																			AdhyyM	3462
.7 Initiate methods development (1Q81)																			AdhyyM	3463
.8 Complete methods development (1Q81)																			AdhyyM	3464
.9 Initiate testing of animals (2Q81)																			AdhyyM	3465
.10 Complete metabolic and chemical disposition studies																			AdhyyM	3466
.11 Receive draft of final report																			AdhyyM	3467
.12 Submit IA final report to Director, DBBS																			AdhyyM	3468
.13 Submit abstract to Director, NIOSH																			AdhyyM	3469
.14 Submit project records to Q.A. Unit, DBBS																			AdhyyM	3470
																			AdhyyM	3471
																			AdhyyM	3472
																			AdhyyM	3473
																			AdhyyM	3474
																			AdhyyM	3475
																			AdhyyM	3476
																			AdhyyM	3477
																			AdhyyM	3478
																			AdhyyM	3479
																			AdhyyM	3480
																			AdhyyM	3481
																			AdhyyM	3482
																			AdhyyM	3483
																			AdhyyM	3484

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY				COMPLETION				P M F		R E U		O C N		RESOURCES				
	I	C	1Q	2Q	3Q	4Q	G	H	D	PY	\$1000	\$1000	NPF	TF					
DIVISION OF RESPIRATORY DISEASE STUDIES																	C	M	3486
																	C	M	3487
13. Retrospective Mortality Study of Synthetic Fuel Workers	82	84															CaihyM		3489
(Ames R 304-599-7476)(1.0/50.0/80.0)(0.8/21.7/49.7)																	CaihyM		3490
(100/VCa-Mih-187)																	CaihyM		3491
.1 Develop study plan (FY81)																	CaihyM		3492
.2 Conduct literature review (FY81)																	CaihyM		3493
.3 Obtain employee records (Union Carbide)																	CaihyM		3494
.4 Complete in-house follow-up of UC																	CaihyM		3495
.5 Initiate Equifax follow-up of UC																	CaihyM		3496
.6 Obtain employee records from 5 National Energy																	CaihyM		3497
Tech Centers																	CaihyM		3498
.7 Complete in-house follow-up of 5 National Energy Tech																	CaihyM		3499
Centers																	CaihyM		3500
.8 Initiate Equifax follow-up of 5 National Energy Tech																	CaihyM		3501
Centers (FY83)																	CaihyM		3502
.9 Complete Equifax follow-up of Union Carbide (FY83)																	CaihyM		3503
.10 Obtain worker records at BOM coal liquefaction																	CaihyM		3504
facilities (FY83)																	CaihyM		3505
.11 Complete in-house follow-up of BOM facilities (FY83)																	CaihyM		3506
.12 Initiate Equifax follow-up of BOM facilities (FY83)																	CaihyM		3507
.13 Complete Equifax follow-up of 5 National Energy Tech																	CaihyM		3508
Centers (FY83)																	CaihyM		3509
.14 Obtain employee records, town gas plants (FY83)																	CaihyM		3510
.15 Complete in-house follow-up of town gas (FY83)																	CaihyM		3511
.16 Initiate Equifax follow-up of town gas (FY84)																	CaihyM		3512
.17 Complete Equifax follow-up of BOM facilities (FY84)																	CaihyM		3513
.18 Prepare report, Union Carbide phase (FY84)																	CaihyM		3514
.19 Prepare report, 5 National Energy Tech Centers (FY84)																	CaihyM		3515
.20 Prepare, BOM facilities (FY84)																	CaihyM		3516
.21 Complete Equifax follow-up of town gas (FY84)																	CaihyM		3517
.22 Prepare report, town gas (FY84)																	CaihyM		3518
.23 Prepare summary final report and submit abstract to																	CaihyM		3519
Director, NIOSH, with copy of report and abstract to																	CaihyM		3520
DTS (FY84)																	CaihyM		3521
																	CaihyM		3522
																	CaihyM		3523

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY		PLANNED COMPLETION				P M F		R E U		O C N		RESOURCES	
	I C		1Q	2Q	3Q	4Q	G	H	D	PY	NPF	TF	\$1000	\$1000
14. IH/Mortality Study of Crushed Stone Workers (Costello J 304-599-7476) (VKL-bpB-186) (0.3/11.0/20.0) (100/VCa-Mkg-186)	79	83					M	g	a				CakgyM	3526
													CakgyM	3527
													CakgyM	3528
													CakgyM	3529
.1 Cohort completely defined and data collected from all quarries (n=approx 6000) (2Q81)													CakgyM	3530
.2 All data entered and master file (for follow-up) completed (3Q81)													CakgyM	3531
.3 Follow-back with postmasters, SSA, and IRS to determine vital status													CakgyM	3532
													CakgyM	3533
.4 Update master file from follow-back													CakgyM	3534
.5 Order and receive death certificates													CakgyM	3535
.6 Death certificate coding													CakgyM	3536
.7 Update master file (computer processing) for analysis (1Q83)													CakgyM	3537
.8 Analysis and report writing (2Q&3Q83)													CakgyM	3538
.9 Complete final report and submit abstract to Director, NIOSH, with copy of report and abstract to DTS (4Q83)													CakgyM	3539
													CakgyM	3540
													CakgyM	3541
													CakgyM	3542
													CakgyM	3543
15. Morb/IH Study of Fibrous Attapulgite Workers (Gamble J 304-599-7476) (VKL-bDg-185)(100/VCa-Mgk-185)	77	82					M	c	d				CagknM	3546
													CagknM	3547
													CagknM	3548
.1 Complete negotiations on data collection (2Q81)													CagknM	3549
.2 Complete walk-thru surveys of 2 plants (3Q81)													CagknM	3550
.3 Complete IH surveys (4Q81)													CagknM	3551
.4 Complete film reading trials													CagknM	3552
.5 Receive taped data from Englehard													CagknM	3553
.6 Receive hard copy data from Pennsylvania Glass Sand Corp.													CagknM	3554
.7 Edit Englehard data for analysis													CagknM	3555
.8 Code PGS data and put on tape													CagknM	3556
.9 Edit PGS data for analysis													CagknM	3557
.10 Code and put IH data on computer tape													CagknM	3558
.11 Analyze cross-sectional and prospective data													CagknM	3559
.12 Estimate cumulative exposure													CagknM	3560
.13 Complete report and submit abstract to Director, NIOSH, with copy of report and abstract to DTS													CagknM	3561
													CagknM	3562
													CagknM	3563

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY		PLANNED COMPLETION				P M F		R E U		O C N		RESOURCES	
	I C		1Q	2Q	3Q	4Q	G	H	D	PY	NPF	TF	\$1000	\$1000
16. Registry of Workers-Emerging Energy Technologies-EPA (Costello J 304-599-7476) (VKL-a1B-189)(100/VCa-Mih-189)	81	82					M	b	c				CaihyM	3566
.1 Develop preliminary protocol for establishment of a synthetic fuels workers registry (1Q81)													CaihyM	3567
.2 Contact appropriate agencies (DOE, API, EPRI, etc) to discuss the registry project and evaluate their interest in participating (1Q81)													CaihyM	3568
.3 Meet with representatives of API to discuss their plans for registry establishment and operation (2Q81)													CaihyM	3569
.4 Attend meeting planned by API to include those with an interest in pilot oil shale registry (individual energy companies, NIOSH, MSHA, OSHA, state health departments) (4Q81)													CaihyM	3570
.5 Obtain seat on API and Tri-state consortium advisory committee													CaihyM	3571
.6 Confer with IOM officials regarding cooperative or contractual arrangement to examine ex-shale oil workers a. Submit RFC to CDC/OAMS													CaihyM	3572
.7 If feasible, award contract in one of several areas													CaihyM	3573
.8 Monitor contract work - in cooperation with DOE													CaihyM	3574
.9 Provide advice to API and state health departments concerned with shale oil registry in US													CaihyM	3575
.10 Submit final report and abstract to Director, NIOSH, with copy of report and abstract to DTS													CaihyM	3576
													CaihyM	3577
													CaihyM	3578
													CaihyM	3579
													CaihyM	3580
													CaihyM	3581
													CaihyM	3582
													CaihyM	3583
													CaihyM	3584
													CaihyM	3585
													CaihyM	3586
													CaihyM	3587
													CaihyM	3588
													CaihyM	3589
													CaihyM	3590
													CaihyM	3591
17. Fibrous Minerals and Metals on Interferon System (Hahon N 304-599-7517)(VKC-cCB-129)(1.9/27.0/84.0) (100/VCd-Mgm-129)	81	83					M	c	d				CdgmyM	3594
METALS													CdgmyM	3595
.1 Complete determination of chromium and manganese on cell viability, cell growth													CdgmyM	3596
.2 Complete assessment of metal effects on viral induction of interferon													CdgmyM	3597
.3 Complete study of metals on interferon system (cell-mediated antiviral resistance, virus growth)													CdgmyM	3598
MINERAL-METAL COMBINATIONS													CdgmyM	3599
.1 Complete determination of garnierite (nickel-asbestos) on cell integrity (1Q83)													CdgmyM	3600
.2 Complete study of garnierite effects on interferon system (induction, cell-resistance, virus growth) (3Q83)													CdgmyM	3601
.3 Submit final report and abstract to Director, NIOSH, with copy of report and abstract to DTS (4Q83)													CdgmyM	3602
													CdgmyM	3603
													CdgmyM	3604
													CdgmyM	3605
													CdgmyM	3606
													CdgmyM	3607
													CdgmyM	3608
													CdgmyM	3609
													CdgmyM	3610
													CdgmyM	3611
													CdgmyM	3612
													CdgmyM	3613

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY				PLANNED COMPLETION				P M F R E U O C N G H D			RESOURCES	
	I C		1Q	2Q	3Q	4Q						PY	NPF TF \$1000 \$1000
18. Diesel Exhaust/Coal Dust Animal Exposure Studies (Green F 304-599-7581) (VKC-cpD-117)(100/VCD-Mmi-117)	80	82						M	g	b			CdmiyM 3616 CdmiyM 3617 CdmiyM 3618 CdmiyM 3619 CdmiyM 3620 CdmiyM 3621 CdmiyM 3622 CdmiyM 3623 CdmiyM 3624 CdmiyM 3625
.1 Submit IA to DOE for dust analysis by Brookhaven National Labs				o									CdmiyM 3626
.2 Complete report on 12-month exposure				o									CdmiyM 3627
.3 Complete 24-month animal sampling					o								CdmiyM 3628
.4 Submit final report and abstract to Director, NIOSH with copy of report and abstract to DTS							o						CdmiyM 3629 CdmiyM 3630
19. Early Indicators of Risk for Energy Technologies-EPA (Resnick H 304-599-7593)(VKC-ciB-120)(2.5/75.0/150.0) (2.5/50.0/140.0)(100/VCD-Mid-120)	81	84						M	c	c			CdmiyM 3631 CdmiyM 3632 CdmiyM 3633 CdmiyM 3634 CdmiyM 3635 CdmiyM 3636 CdmiyM 3637 CdmiyM 3638 CdmiyM 3639 CdmiyM 3640 CdmiyM 3641
.1 Complete peer review of protocol				o									D M 3642
.2 Complete SPRG/HSRB/OMB approval				o									D M 3643
.3 Complete review of alternate bioassays available						o							D M 3644
.4 Complete coordinating bioassays of samples provided from field studies					o								D M 3645
.5 Complete evaluation of plants studied; redirection if necessary							o						D M 3646
.6 Continuing out-year milestones contingent upon progress realized during FY82 efforts													D M 3647 D M 3648 D M 3649 D M 3650
DIVISION OF SURVEILLANCE, HAZARD EVALUATIONS AND FIELD STUDIES													
20. Lung Cancer Screening of Workers at High Risk (914)-- 4/30/84--\$168,901--J. Melius													DayyyM 3651 DayyyM 3652 DayyyM 3653 DayyyM 3654 DayyyM 3655 DayyyM 3656 DayyyM 3657 DayyyM 3658 DayyyM 3659 DayyyM 3660
21. Multiple Myeloma and Brain Tumors in Physicians (920) 7/31/83--\$122,508--E. Leffingwell													
22. Worker Notification Pilot Program (Paul Schulte 513-684-2732) (100/VMC-Myy-687)	81	82						M	b	a			
A. Award contracts for medical services (4Q81).					o								
B. Complete data collection.													
C. Complete final report and submit abstract to Director, NIOSH and copy to DTS.							o						
D. Devise follow-up plan.								o					

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY				P M F				RESOURCES	
	PLANNED COMPLETION				R E U				NPF TF	
	I	C	1Q	2Q	3Q	4Q	G	H	D	PY \$1000 \$1000
23. Investigation of Brain Tumors Among Workers at the Dow Chemical Company, Texas Division (Gordon Reeve 513-684-2352) (100/VMH-Myy-580)	82	82					M	c	e	
A. Complete brain tumor case control study.			o							DbyyyM 3663
B. Collect death certificates for second phase of study.				o						DbyyyM 3664
C. Complete final report on case control study and submit abstract to Director, NIOSH and copy to DTS.					o					DbyyyM 3665
D. Complete sample based cohort mortality analysis and make recommendations for future study.						o				DbyyyM 3666
										DbyyyM 3667
										DbyyyM 3668
										DbyyyM 3669
										DbyyyM 3670
										DbyyyM 3671
										DbyyyM 3672
										DbyyyM 3673
24. Beryllium Retrospective Cohort Investigation (Andrea Okun 513-684-2145) (1.0/60.0/90.0)(100/VMH-Myy-583)	82	83					M	c	a	
A. Initiate preparation of protocol.			o							DbyyyM 3676
B. Submit protocol to peer review panel.				o						DbyyyM 3677
C. Establish future milestones dependent on peer review comments.					o					DbyyyM 3678
										DbyyyM 3679
										DbyyyM 3680
										DbyyyM 3681
										DbyyyM 3682
										DbyyyM 3683
										DbyyyM 3684
25. Case Control Study of Soft Tissue Sarcoma (Pat Honchar 513-684-3593) (1.0/40.0/70.0)(100/VMH-Mee-582)	82	83					M	b	a	
A. Complete RFC and OMB package and submit to OAMS.				o						DbeeeM 3687
B. Award contract (210-82-).						o				DbeeeM 3688
C. Complete final report and submit abstract to Director, NIOSH and copy to DTS (4Q83).										DbeeeM 3689
										DbeeeM 3690
										DbeeeM 3691
										DbeeeM 3692
										DbeeeM 3693
										DbeeeM 3694
										DbeeeM 3695
26. Mortality and Industrial Hygiene Study of Uranium Enrichment Plant (Dave Brown 513-684-3593) (VMH-Mai-546)	81	82					M	c	a	
A. Complete acquisition of 70% of death certificates (2Q81).			o							Dbaiam 3698
B. Complete vital status follow-up.				o						Dbaiam 3699
C. Complete industrial hygiene survey.					o					Dbaiam 3700
D. Initiate analyses of mortality data.						o				Dbaiam 3701
E. Complete final report and submit abstract to Director, NIOSH and copy to DTS.							o			Dbaiam 3702
										Dbaiam 3703
										Dbaiam 3704
										Dbaiam 3705
										Dbaiam 3706
										Dbaiam 3707
										Dbaiam 3708

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY				PLANNED COMPLETION				P M F			RE U		O C N		RESOURCES	
	I	C	1Q	2Q	3Q	4Q	G	H	D	PY	\$1000	\$1000	NPF	TF			
27. Uranium Miner and Miller Study (Rick Waxweiler 513-684-2761) (100/VMH-Mai-560)	79	82								M c d			Dbaiam	3711			
A. Construct cohort of uranium millers (2Q79).													Dbaiam	3712			
B. Eliminate those millers who worked in uranium mines (2Q80).													Dbaiam	3713			
C. Complete 90% follow-up of uranium millers (4Q81).													Dbaiam	3714			
D. Complete analyses of millers cohort.													Dbaiam	3715			
E. Complete Phase 1 analysis of miners cohort.													Dbaiam	3716			
F. Complete final report on millers and submit abstract to Director, NIOSH and copy to DTS.													Dbaiam	3717			
G. Complete Phase 1 report on miners and submit abstract to Director, NIOSH and copy to DTS.													Dbaiam	3718			
H. Complete Phase 2 report on miners and submit abstract to Director, NIOSH and copy to DTS.													Dbaiam	3719			
													Dbaiam	3720			
													Dbaiam	3721			
													Dbaiam	3722			
													Dbaiam	3723			
													Dbaiam	3724			
													Dbaiam	3725			
28. Mortality and Industrial Hygiene Study of Workers Exposed to Tetra Ethyl Lead (Marie Haring 513-684-2761) (1.0/9.0/36.0)(0.5/10.0/30.0)(100/VMH-Myy-548)	80	84								M c a			DbyyyM	3728			
A. Initiate vital status follow-up and death certificate acquisition (4Q80).													DbyyyM	3729			
B. Initiate vital status follow-up (2Q81).													DbyyyM	3730			
C. Complete 90% vital status ascertainment.													DbyyyM	3731			
D. Complete acquisition of 70% of death certificates.													DbyyyM	3732			
E. Complete 95% vital status ascertainment.													DbyyyM	3733			
F. Complete acquisition of 95% of death certificates.													DbyyyM	3734			
G. Complete draft final report (4Q83).													DbyyyM	3735			
H. Complete final report and submit abstract to Director, NIOSH and copy to DTS (1Q84).													DbyyyM	3736			
													DbyyyM	3737			
													DbyyyM	3738			
													DbyyyM	3739			
													DbyyyM	3740			
													DbyyyM	3741			
													DbyyyM	3742			

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY				PLANNED COMPLETION				P M F R E U O C N			RESOURCES	
	I C		1Q	2Q	3Q	4Q	G	H	D	PY		NPF	TF
												\$1000	\$1000
29. Mortality Study of Chemical Plants in Kanawha Valley, West Virginia (NCI)(Terry Leet 513-684-2761) (0.8/50.0/70.0)(VMH-Mih-605)	80	83							M	c	e		
A. Complete initial study protocol, initiate coding of demographic and work history data (1Q80).												DbihyM	3745
B. Complete coding of demographic and work history data (4Q81).												DbihyM	3746
C. Initiate SSA follow-up on second half of master file.												DbihyM	3747
D. Complete 90% of death certificate acquisition on first half of master file.												DbihyM	3748
E. Initiate death certificate acquisition on second half of master file.												DbihyM	3749
F. Complete vital status follow-up.												DbihyM	3750
G. Complete final report and submit abstract to Director, NIOSH and copy to DTS (3Q83).												DbihyM	3751
												DbihyM	3752
												DbihyM	3753
												DbihyM	3754
												DbihyM	3755
												DbihyM	3756
												DbihyM	3757
												DbihyM	3758
												DbihyM	3759
												DbihyM	3760
												DbihyM	3761
30. Mortality and Industrial Hygiene Study of New Agents-III (Jim Oser 513-684-3255) (100/VMH-MNe-602)	78	82							M	b	e		
A. Award contract (4Q78).												DbNeeM	3764
B. Initiate surveys for wood preservatives (2Q79).												DbNeeM	3765
C. Initiate surveys for paraquat (2Q80).												DbNeeM	3766
D. Complete final report on wood preservatives (4Q81).												DbNeeM	3767
E. Complete final report on paraquat and submit abstract to Director, NIOSH and copy to DTS.												DbNeeM	3768
F. Complete final report on vanadium compounds and submit abstract to Director, NIOSH and copy to DTS.												DbNeeM	3769
												DbNeeM	3770
												DbNeeM	3771
												DbNeeM	3772
												DbNeeM	3773
												DbNeeM	3774
												DbNeeM	3775
												DbNeeM	3776
31. Mortality and Industrial Hygiene Study of Formaldehyde (Larry Elliott 513-684-3255) (0.2/20.0/25.0)(100/VMH-Myy-576)	81	83							M	c	a		
A. Complete study protocol (3Q81).												DbyyyM	3779
B. Complete microfilming.												DbyyyM	3780
C. Complete coding of death certificates and create master file.												DbyyyM	3781
D. Complete indepth industrial hygiene surveys.												DbyyyM	3782
E. Complete industrial hygiene report.												DbyyyM	3783
F. Complete final report and submit abstract to Director, NIOSH and copy to DTS (2Q83).												DbyyyM	3784
												DbyyyM	3785
												DbyyyM	3786
												DbyyyM	3787
												DbyyyM	3788
												DbyyyM	3789
												DbyyyM	3790
												DbyyyM	3791

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY		PLANNED COMPLETION				P M T R E U O C N			RESOURCES	
	I	C	1Q	2Q	3Q	4Q	G	H	D	PY	NPF TF
											\$1000 \$1000
32. Mortality and Industrial Hygiene Study of Workers Exposed to Toluene (NCI) (Frank Stern 513-684-2761) (0.5/25.0/40.0)(100/VMH-Mhh-604)	79	83							M c e		DbhhhhM 3794
											DbhhhhM 3795
											DbhhhhM 3796
											DbhhhhM 3797
A. Initiate walk-through surveys (1Q79).											DbhhhhM 3798
B. Complete selection of plants for study (1Q80).											DbhhhhM 3799
C. Complete industrial hygiene report (2Q81).											DbhhhhM 3800
D. Initiate coding of death certificates.											DbhhhhM 3801
E. Complete 70% vital status follow-up.											DbhhhhM 3802
F. Complete acquisition of 70% of death certificates.											DbhhhhM 3803
G. Complete final report and submit abstract to Director, NIOSH and copy to DTS (3Q83).											DbhhhhM 3804
											DbhhhhM 3805
											DbhhhhM 3806
33. Mortality and Industrial Hygiene Study of Leather Industry Workers (NCI) (Frank Stern 513-684-2761) (1.0/40.0/65.0)(100/VMH-Myy-603)	79	83							M c e		DbyyyyM 3809
											DbyyyyM 3810
											DbyyyyM 3811
											DbyyyyM 3812
A. Complete peer review (3Q79).											DbyyyyM 3813
B. Select plants for study (2Q80).											DbyyyyM 3814
C. Complete industrial hygiene reports (3Q81).											DbyyyyM 3815
D. Initiate coding of death certificates.											DbyyyyM 3816
E. Complete 70% vital status follow-up.											DbyyyyM 3817
F. Complete acquisition of 70% of death certificates.											DbyyyyM 3818
G. Complete final report and submit abstract to Director, NIOSH and copy to DTS (4Q83).											DbyyyyM 3819
											DbyyyyM 3820
											DbyyyyM 3821
											DbyyyyM 3824
											DbyyyyM 3825
											DbyyyyM 3826
											DbyyyyM 3827
											DbyyyyM 3828
A. Complete detailed industrial hygiene assessments (4Q81).											DbyyyyM 3829
B. Complete final report on vegetable tanning and submit abstract to Director, NIOSH and copy to DTS.											DbyyyyM 3830
C. Complete walk-through surveys for chrome tanning.											DbyyyyM 3831
D. Select plants for indepth surveys of chrome tanning.											DbyyyyM 3832
E. Complete final report on chrome tanning and submit abstract to Director, NIOSH and copy to DTS (2Q83).											DbyyyyM 3833
											DbyyyyM 3834
											DbyyyyM 3835
34. Industrial Hygiene Characterization of the Tanning Industry (Ken Wallingford 513-684-3255) (0.4/10.0/20.0)(100/VMH-Myy-562)	81	83							M c a		DbyyyyM 3824
											DbyyyyM 3825
											DbyyyyM 3826
											DbyyyyM 3827
											DbyyyyM 3828
A. Complete detailed industrial hygiene assessments (4Q81).											DbyyyyM 3829
B. Complete final report on vegetable tanning and submit abstract to Director, NIOSH and copy to DTS.											DbyyyyM 3830
C. Complete walk-through surveys for chrome tanning.											DbyyyyM 3831
D. Select plants for indepth surveys of chrome tanning.											DbyyyyM 3832
E. Complete final report on chrome tanning and submit abstract to Director, NIOSH and copy to DTS (2Q83).											DbyyyyM 3833
											DbyyyyM 3834
											DbyyyyM 3835

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	P M F R E U O C N G H D					RESOURCES	
	FY PLANNED COMPLETION					NPF	TF
	I	C	1Q	2Q	3Q	4Q	PY \$1000 \$1000
35. Mortality and Industrial Hygiene Study of Automotive Wood Die and Model Makers (Robert Roscoe 513-684-2761) (1.0/40.0/70.0)(100/VMH-Myy-568)	81	83					
A. Complete computer indexing (1Q81).							DbyyyM 3838
B. Complete industrial hygiene report.							DbyyyM 3839
C. Complete SSA vital status follow-up.							DbyyyM 3840
D. Complete acquisition of 70% of death certificates.							DbyyyM 3841
E. Complete acquisition of 93% of death certificates.							DbyyyM 3842
F. Complete final report and submit abstract to Director, NIOSH and copy to DTS (3Q83).							DbyyyM 3843
							DbyyyM 3844
							DbyyyM 3845
							DbyyyM 3846
							DbyyyM 3847
							DbyyyM 3848
							DbyyyM 3849
36. Industrial Hygiene Characterization of Petroleum Turnarounds (Clint Cox 513-684-3255) (0.2/10.0/15.0)(100/VMH-Mii-555)	80	83					
A. Complete study protocol (3Q80).							Dbiiim 3852
B. Select plants for surveys (3Q81).							Dbiiim 3853
C. Initiate industrial hygiene surveys.							Dbiiim 3854
D. Complete first set of surveys.							Dbiiim 3855
E. Complete reports on first surveys.							Dbiiim 3856
F. Complete final surveys.							Dbiiim 3857
G. Complete final report and submit abstract to Director, NIOSH and copy to DTS (4Q83).							Dbiiim 3858
							Dbiiim 3859
							Dbiiim 3860
							Dbiiim 3861
							Dbiiim 3862
							Dbiiim 3863
							Dbiiim 3864
37. Mortality and Industrial Hygiene Study of Workers Exposed to Sulfuric Acid (Jay Beaumont 513-684-2145) (0.2/2.0/8.0)(100/VMH-Myy-573)	76	83					
A. Complete protocol (4Q78)							DbyyyM 3867
B. Complete walk-through surveys (4Q79).							DbyyyM 3868
C. Choose plants for study (1Q80).							DbyyyM 3869
D. Complete microfilming of records (3Q81).							DbyyyM 3870
E. Complete SSA vital status follow-up.							DbyyyM 3871
F. Complete acquisition of 70% of death certificates.							DbyyyM 3872
G. Complete 95% vital status follow-up.							DbyyyM 3873
H. Initiate data analyses.							DbyyyM 3874
I. Complete final report and submit abstract to Director, NIOSH and copy to DTS (2Q83).							DbyyyM 3875
							DbyyyM 3876
							DbyyyM 3877
							DbyyyM 3878
							DbyyyM 3879
							DbyyyM 3880
							DbyyyM 3881

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY				PLANNED COMPLETION				P M F R E U O C N			RESOURCES	
	I C		1Q	2Q	3Q	4Q	G H D	PY	NPF TF			\$1000	\$1000
38. Registry of Dioxin Workers) (Pat Honchar 513-684-3593) (3.0/40.0/126.0)(100/VMH-Mee-550)	80	83					M c a					DbeeeM	3884
												DbeeeM	3885
												DbeeeM	3886
A. Mortality												DbeeeM	3887
1. Initiate data collection (3Q80).												DbeeeM	3888
2. Initiate work history coding (3Q81).												DbeeeM	3889
3. Complete final aspects of protocol.												DbeeeM	3890
4. Complete status report.												DbeeeM	3891
5. Complete final reports on site visits.												DbeeeM	3892
6. Complete final report and submit abstract to Director, NIOSH and copy to DTS (4Q83).												DbeeeM	3893
												DbeeeM	3894
B. Chloracne Subgroup												DbeeeM	3895
1. Initiate dermatologic review (3Q81).												DbeeeM	3896
2. Establish case definition.												DbeeeM	3897
3. Complete review of cases.												DbeeeM	3898
4. Complete coding of cases.												DbeeeM	3899
5. Complete analysis (1Q83).												DbeeeM	3900
C. Reproductive Study												DbeeeM	3901
1. Initiate feasibility assessment.												DbeeeM	3902
2. Complete assessment and make recommendations for future study.												DbeeeM	3903
												DbeeeM	3904
												DbeeeM	3905
39. Epidemiologic Methods Development (Jay Beaumont 513-684-2145) (0.2/35.0/40.0)(100/VMH-Myy-547)	80	C					M c a					DbyyyM	3908
												DbyyyM	3909
												DbyyyM	3910
A. Complete PMR/SMR comparison (3Q81).												DbyyyM	3911
B. Complete computer run on Monson PMR/SMR System.												DbyyyM	3912
C. Publish Version D Life Table System.												DbyyyM	3913
D. Publish Epidemiology exercises.												DbyyyM	3914
E. Initiate documentation for Version E of Life Table System.												DbyyyM	3915
												DbyyyM	3916

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY				PLANNED COMPLETION				P M F R E U O C N			RESOURCES	
	I	C	1Q	2Q	3Q	4Q	G	H	D	PY	NPF	TF	
											\$1000	\$1000	
40. Mortality, Medical and Industrial Hygiene Study of the Painting Trades (NCI) (Dennis Zaebst 513-684-3255) (1.0/20.0/50.0)(1.0/20.0/50.0)(100/VMH-Mhy-599)	77	84					M	b	e				
A. Award contract (210-77-0096) (4Q77).											DbhyyM	3919	
B. Select plants for walk-through surveys (2Q78).											DbhyyM	3920	
C. Complete walk-through industrial hygiene surveys (4Q79).											DbhyyM	3921	
D. Obtain original study protocol from contractor (4Q80).											DbhyyM	3922	
E. Obtain new study protocol from contractor (3Q81).											DbhyyM	3923	
F. Complete OMB package for case control study.											DbhyyM	3924	
G. Initiate mortality and case control study.											DbhyyM	3925	
H. Complete eleven of fourteen industrial hygiene surveys.											DbhyyM	3926	
I. Complete industrial hygiene reports (4Q83).											DbhyyM	3927	
J. Complete final report and submit abstract to Director, NIOSH and copy to DTS (2Q84).											DbhyyM	3928	
											DbhyyM	3929	
											DbhyyM	3930	
											DbhyyM	3931	
											DbhyyM	3932	
											DbhyyM	3933	
											DbhyyM	3934	
41. Medical, Biometric and Industrial Hygiene Study of Emerging Problems (Bill Halperin 513-684-3593) (10.0/250.0/500.0)(100/VMH-MNy-543)	80	C					M	g	a		DbNyyM	3937	
A. Emerging problems											DbNyyM	3938	
1. Respondent to 5 emerging problems through 3Q81.											DbNyyM	3939	
2. Emerging problem requests received.											DbNyyM	3940	
3. Respond to new emerging problems.											DbNyyM	3941	
4. Complete reports on actions and close out.											DbNyyM	3942	
5. Recommend specific problems for next fiscal year projects.											DbNyyM	3943	
6. Assist with HHE's											DbNyyM	3944	
B. Exposure characterization of benzidine analog dyes											DbNyyM	3945	
1. Complete study protocol (4Q81).											DbNyyM	3946	
2. Identify facilities.											DbNyyM	3947	
3. Initiate sampling surveys.											DbNyyM	3948	
4. Initiate writing of draft report.											DbNyyM	3949	
5. Complete final report and submit abstract to Director, NIOSH and copy to DTS.											DbNyyM	3950	
C. Final reports from FY'81											DbNyyM	3951	
Milestones will be added during 1st quarter FY'82 review.											DbNyyM	3952	
											DbNyyM	3953	
											DbNyyM	3954	
											DbNyyM	3955	
											DbNyyM	3956	
											DbNyyM	3957	
											DbNyyM	3958	
											DbNyyM	3959	
											DbNyyM	3960	
											DbNyyM	3961	
											DbNyyM	3962	
											DbNyyM	3963	

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY				PLANNED COMPLETION				P M F R E U O C N			RESOURCES	
	I C		1Q	2Q	3Q	4Q	G H D	PY	NPF TF			\$1000	\$1000
42. Mortality Analysis of United Auto Workers Cohort (John Whalen 513-684-3593) (0.2/5.0/10.0)(0.2/5.0/10.0)(100/VMH-Myy-607)	81	84					M b e					DbyyyyM	3966
A. Award contract (210-81-5104)(4Q81).												DbyyyyM	3967
B. Initiate surveillance system.												DbyyyyM	3968
C. Complete initial priority list of projects.												DbyyyyM	3969
D. Initiate study of first process or agent.												DbyyyyM	3970
E. Initiate second study.												DbyyyyM	3971
F. Prepare interim report (2Q83).												DbyyyyM	3972
G. Complete final report and submit abstract to Director, NIOSH and copy to DTS (1Q84).												DbyyyyM	3973
												DbyyyyM	3974
												DbyyyyM	3975
												DbyyyyM	3976
												DbyyyyM	3977
												DbyyyyM	3978
43. Mortality and Industrial Hygiene Study of Workers Exposed to Styrene (NCI) (Jay Beaumont 513-684-2145) (0.5/20.0/30.0)(100/VMH-Mhy-600)	77	83					M c e					DbhyyyM	3981
A. Complete selection of cohort (3Q78).												DbhyyyM	3982
B. Complete industrial hygiene surveys (3Q79).												DbhyyyM	3983
C. Complete industrial hygiene report (1Q81).												DbhyyyM	3984
D. Complete conversion of microfilm to microfiche (2Q81).												DbhyyyM	3985
E. Complete acquisition of 70% of death certificates.												DbhyyyM	3986
F. Complete 95% vital status follow-up.												DbhyyyM	3987
G. Complete data analysis.												DbhyyyM	3988
H. Complete final report and submit abstract to Director, NIOSH and copy to DTS (2Q83).												DbhyyyM	3989
												DbhyyyM	3990
												DbhyyyM	3991
												DbhyyyM	3992
												DbhyyyM	3993
												DbhyyyM	3994
44. Mortality Study of Workers in the Plywood, Paper and Pulp Industry (NCI) (Leo Blade 513-684-3255) (100/VMH-Myy-597)	76	82					M b e					DbyyyyM	3997
A. Initiate development of master file (1Q78).												DbyyyyM	3998
B. Complete death certificate coding (4Q79).												DbyyyyM	3999
C. Complete coding of new study members (2Q80).												DbyyyyM	4000
D. Complete data analysis on mortality study (4Q81).												DbyyyyM	4001
E. Complete final report on mortality study and submit abstract to Director, NIOSH and copy to DTS.												DbyyyyM	4002
F. Initiate walk-through industrial hygiene surveys.												DbyyyyM	4003
G. Initiate indepth surveys.												DbyyyyM	4004
H. Complete final industrial hygiene report and submit abstract to Director, NIOSH and copy to DTS.												DbyyyyM	4005
												DbyyyyM	4006
												DbyyyyM	4007
												DbyyyyM	4008
												DbyyyyM	4009
												DbyyyyM	4010
												DbyyyyM	4011

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY				PLANNED COMPLETION				P M F		R E U		O C N		RESOURCES																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
	I	C	1Q	2Q	3Q	4Q	G	H	D	PY	\$1000	\$1000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
45. Epidemiologic Support of TSCA (EPA) (Dave Brown 513-684-3593) (1.0/40.0/68.0)(100/VMH-Myy-609) A. Award IA 81-60 (3Q81). B. Initiate walk-through surveys for first agent. C. Complete background search for agent. D. Complete interim report for first agent and recommend further study or not. E. Initiate walk-through surveys for second agent. F. Complete background search for third agent. Milestones proceed in this sequence into FY'83.	82	C							M	g	c																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					</

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	P M F R E U O C N				RESOURCES			
	FY				NPF TF			
	I	C	1Q	2Q	3Q	4Q	G H D	PY \$1000 \$1000
OFFICE OF EXTRAMURAL COORDINATION AND SPECIAL PROJECTS								
47. NIOSH/EPA:NIOSH/NCI Interagency Energy/Cancer Research Agreements (Harris, 443-6377) (VCA-bb1-879) (1.5/0.005/0.050) (100/VCA-Myy-879)	76	C					M c a	
.1 NIOSH/NCI Interagency Agreement								
a. Submit NCI IA to OPPE								
b. Obtain signatures of concurrence on NCI IA								
c. Hold quarterly meetings with NCI								
d. Complete NCI six-month progress reports								
e. Complete NCI Annual Progress Report								
f. Solicit new cancer research proposals from divisions								
g. Hold IA (NCI/EPA/NIOSH) peer review of proposed new cancer projects								
h. Hold annual review meeting with research divisions								
.2 NIOSH/EPA/ Interagency Agreement								
a. Hold quarterly meetings with EPA								
b. Complete EPA Annual Progress Report								
c. Complete EPA six-month Progress Report								
d. Initiate EPA Laboratory Operating Plans								
e. Review and submit Laboratory Operating Plans to EPA								
.3 Other Interagency Activities								
a. Solicit list of Interagency Agreements from NIOSH Offices and Divisions								
b. Compile list and submit to Director, NIOSH								
c. Hold discussions with other Federal agencies, foundations, etc., regarding possible sources of funding for NIOSH projects								

STRESS-RELATED DISORDERS

NIOSH concerns about job stress and its health consequences arise from (1) evidence linking stress with increased risk of cardiovascular disease, digestive disorders, and nervous disturbances, and (2) the recognition that certain occupations, because of the nature of their job tasks or work pressures imposed, show a disproportionate number of workers afflicted with these problems. In addition, spreading automation and new technology in the workplace have resulted in major changes in job tasks and organizational structure with new forms of stress emerging (e.g., loss of job control, automatic monitoring of one's performance, task-imposed isolation, high sensory-motor demands). Growing signs of workers' disaffection with their jobs, behavioral problems (e.g., increased absenteeism, smoking, drinking), and symptomatic health complaints mark such stressors which, without abatement, could portend more serious health problems. That over 50 percent of the U.S. work force is now engaged in white collar work--the target for the new technological revolution brought about by computers--gives further impetus to the need to study job-stress problems and means for their alleviation.

Division of Biomedical and Behavioral Sciences

This area of research and consultation in DBBS has two basic objectives--to identify work conditions that produce mental and physical health problems, and to develop and evaluate approaches for reducing workers' stress. During FY 1981, work in this program area continued in examining the stress consequences of machine-paced work. Findings reflecting on both psychological as well as physical health problems stemming from such job tasks were presented at the NIOSH-sponsored conference on occupational stress. In addition, field and laboratory efforts continued in defining job task and ergonomic factors responsible for visual, musculoskeletal, and general health complaints reported by users of video display equipment. Another conference held in FY 1981 was directed at Occupational Health Issues Affecting Clerical/Secretarial Personnel.

For FY 1982, major efforts will be directed to surveying stress/health problems in office workers as a follow-on to the FY 1981 conference. In addition, task analysis and ergonomic evaluations are planned in the telecommunications industry as part of a new project to define potential stressors in jobs subject to technological change via use of computers and electronic displays. Since over 50 percent of the Nation's work force is engaged in work activities that deal with information processing, significant efforts should be concentrated on these work activities. Also in FY 1982, efforts will continue in applying stress reduction programs at the worksite to select occupational groups for whom job redesign is not possible.

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY				PLANNED COMPLETION				P M F			RESOURCES	
									R E U				
	I	C	1Q	2Q	3Q	4Q	G	H	D	PY		NPF	TF
												\$1000	\$1000
*****STRESS-RELATED DISORDERS*****													
DIVISION OF BIOMEDICAL AND BEHAVIORAL SCIENCE													
1. Chronic Stress in Office Work (B. Cohen, 684-8293) (VOB-bXy-286)(1.1/260.9/290.0)(1.1/35.0/65.0)(100/VOB-Oyy-286)	81	84								0	b a		
.1 Submit progress report to Director, DBBS				o	o	o	o					Aayyy0	4081
.2 Conference												Aayyy0	4082
a. Submit RFC to Director, DBBS for 8A contract award (1Q81)												Aayyy0	4083
b. Submit RFC to OAMS (2Q81)												Aayyy0	4084
c. Award contract (3Q81)												Aayyy0	4085
d. Hold conference (4Q81)												Aayyy0	4086
e. Receive conference proceedings				o								Aayyy0	4087
f. Submit proceedings to Director, DBBS					o							Aayyy0	4088
g. Submit abstract to Director, NIOSH					o							Aayyy0	4089
.3 Questionnaire Survey												Aayyy0	4090
a. Formulate draft of questions					o							Aayyy0	4091
b. Peer review of RFC					o							Aayyy0	4092
c. Submit for HSRB & OMB approval					o							Aayyy0	4093
d. Submit RFC to Director, DBBS						o						Aayyy0	4094
e. Submit RFC to OAMS						o						Aayyy0	4095
f. Obtain HSRB approval						o						Aayyy0	4096
g. Award contract							o					Aayyy0	4097
h. Obtain OMB approval (2Q83)								o				Aayyy0	4098
i. Initiate data collection (2Q83)												Aayyy0	4099
j. Complete data analysis (2Q84)												Aayyy0	4100
k. Submit final report to Director, DBBS (4Q84)												Aayyy0	4101
l. Submit abstract to Director, NIOSH (4Q84)												Aayyy0	4102
m. Submit project records to Q.A. Unit, DBBS (4Q84)												Aayyy0	4103
.4 Hold ad hoc meeting on office workers health					o			o				Aayyy0	4104
												Aayyy0	4105
												Aayyy0	4106
												Aayyy0	4107
												Aayyy0	4108

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY		PLANNED COMPLETION				P M F			R E U			O C N		G H D		PY		RESOURCES			
	I	C	1Q	2Q	3Q	4Q																
2. Health Risks in Information Processing (J. Hurrell 684-8293) (1.7/400.0/455.0)(1.7/145.0/200.0)(0.5/20.0/30.0) (100/V08-Dyy-288)	82	85																			Aayyy0	4111
																					Aayyy0	4112
																					Aayyy0	4113
																					Aayyy0	4114
.1 Submit quarterly report to Director, DBBS																					Aayyy0	4115
.2 Cooperative Agreement Work																					Aayyy0	4116
a. Award cooperative agreements																					Aayyy0	4117
b. Initiate development of simulator																					Aayyy0	4118
c. Develop indices of strain																					Aayyy0	4119
d. Complete simulator (2Q83)																					Aayyy0	4120
e. Hold peer review-lab study (2Q83)																					Aayyy0	4121
f. Obtain HSRB approval (2Q83)																					Aayyy0	4122
g. Submit final protocol to Director, DBBS (2Q83)																					Aayyy0	4123
h. Initiate lab studies (2Q83)																					Aayyy0	4124
i. Complete lab studies (4Q84)																					Aayyy0	4125
j. Complete data analysis (2Q85)																					Aayyy0	4126
k. Submit report to Director, DBBS (4Q85)																					Aayyy0	4127
.3 Field Evaluations																					Aayyy0	4128
a. Initiate pilot field evaluations																					Aayyy0	4129
b. Complete pilot evaluations																					Aayyy0	4130
c. Complete questionnaire survey plan (1Q83)																					Aayyy0	4131
d. Hold peer review-survey (2Q83)																					Aayyy0	4132
e. Submit for HSRB and OMB approval (2Q83)																					Aayyy0	4133
f. Submit RFC to Director, DBBS (2Q83)																					Aayyy0	4134
g. Submit RFC to OAMS (2Q83)																					Aayyy0	4135
h. Obtain HSRB approval (3Q83)																					Aayyy0	4136
i. Award contract (4Q83)																					Aayyy0	4137
j. Obtain OMB clearance (1Q84)																					Aayyy0	4138
k. Initiate field data collection (1Q84)																					Aayyy0	4139
l. Complete data collection (3Q84)																					Aayyy0	4140
m. Complete data analysis (2Q85)																					Aayyy0	4141
n. Submit study report to Director, DBBS (4Q85)																					Aayyy0	4142
.4 Stress Reduction																					Aayyy0	4143
a. Establish stress reduction lab																					Aayyy0	4144
b. Submit study protocol to Director, DBBS (1Q83)																					Aayyy0	4145
c. Conduct peer review (1Q83)																					Aayyy0	4146
d. Obtain HSRB approval (1Q83)																					Aayyy0	4147
e. Initiate subject testing (2Q83)																					Aayyy0	4148
f. Complete subject testing (4Q83)																					Aayyy0	4149
g. Submit study report to Director, DBBS (4Q84)																					Aayyy0	4150
.5 Submit final project report to Director, DBBS (4Q85)																					Aayyy0	4151
.6 Submit project records to Q.A. Unit, DBBS (4Q85)																					Aayyy0	4152
.7 Submit abstract to Director, NIOSH (4Q85)																					Aayyy0	4153
																					Aayyy0	4154

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY				P M F				RESOURCES		
	PLANNED COMPLETION				R E U				NPF TF		
	I	C	1Q	2Q	3Q	4Q	G	H	D	PY	\$1000 \$1000
3. Machine-Paced Stress in Postal Workers (M. Smith, 684-8386) (VOB-KAm-262)(100/VOB-Qyy-262)	79	82					O	b	a		
.1 Consult Information Office (1Q80)										Aayyy0	4157
.2 Submit progress report to Director, DBBS										Aayyy0	4158
.3 Longitudinal Study										Aayyy0	4159
a. Submit RFC to Director, DBBS (1Q79)										Aayyy0	4160
b. Obtain HSRB approval (1Q79)										Aayyy0	4161
c. Award contract (3Q79)										Aayyy0	4162
d. Award incremental funding (2Q80)										Aayyy0	4163
e. Obtain stress strain data (4Q79)(1Q80)(3Q80)										Aayyy0	4164
f. Submit final report to Director, DBBS										Aayyy0	4165
g. Submit report to USPS and APWU										Aayyy0	4166
.4 National Questionnaire Survey										Aayyy0	4167
a. Obtain HSRB approval (1Q79)										Aayyy0	4168
b. Initiate survey data collection (4Q79)										Aayyy0	4169
c. Complete survey data collection (1Q80)										Aayyy0	4170
d. Complete survey data analysis										Aayyy0	4171
e. Complete final survey report										Aayyy0	4172
f. Submit final report to Director, DBBS										Aayyy0	4173
g. Submit report to USPS and APWU										Aayyy0	4174
.5 Submit project records to Q.A. Unit, DBBS										Aayyy0	4175
.6 Submit abstract to Director, NIOSH										Aayyy0	4176
										Aayyy0	4177
										Aayyy0	4178
										Aayyy0	4179
										Aayyy0	4180
4. Phase Shifts and Stressor Effects (M. Colligan, 684-8286) (VOB-cAf-290)(100/VOB-Ofy-290)	80	82					O	c	a		
.1 Complete literature review (3Q80)										Aafyy0	4183
.2 Prepare initial study plan (3Q80)										Aafyy0	4184
.3 Initiate pilot experiment (4Q80)										Aafyy0	4185
.4 Complete pilot study (1Q81)										Aafyy0	4186
.5 Finalize experimental design (1Q81)										Aafyy0	4187
.6 Hold peer review (2Q81)										Aafyy0	4188
.7 Initiate testing on main study (3Q81)										Aafyy0	4189
.8 Submit progress reports to Director, DBBS										Aafyy0	4190
.9 Complete testing on main study										Aafyy0	4191
.10 Complete report of study and submit to Director, DBBS										Aafyy0	4192
.11 Submit project's records to Q.A. Unit, DBBS										Aafyy0	4193
.12 Submit abstract to Director, NIOSH										Aafyy0	4194
										Aafyy0	4195
										Aafyy0	4196
										Aafyy0	4197
										Aafyy0	4198

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY		PLANNED COMPLETION				P M F			RE U		O C N		RESOURCES	
	I	C	1Q	2Q	3Q	4Q	G	H	D	PY	NPF	TF	\$1000	\$1000	
5. Stress/Trauma of Non-Traditional Jobs (B. Wilkes 684-8293) (VOB-KEf-285)(1.3/145.0/175.0)(1.3/15.0/50.0)(100/VOB-Oyy-285)	81	84								O b a			Aayyy0	4201	
													Aayyy0	4202	
													Aayyy0	4203	
.1 Initiate information search (1Q81)													Aayyy0	4204	
.2 Submit progress reports to Director, DBBS				o	o	o	o						Aayyy0	4205	
.3 Conduct peer review					o								Aayyy0	4206	
.4 Submit final project protocol to Director, DBBS					o								Aayyy0	4207	
.5 Ergonomic Evaluations													Aayyy0	4208	
a. Award FFS-non-trad.-Job #1					o								Aayyy0	4209	
b. Initiate evaluations - Job #1						o							Aayyy0	4210	
c. Award FFD-Job #2 (1Q83)													Aayyy0	4211	
d. Complete evaluations - Job #1 (2Q83)													Aayyy0	4212	
e. Initiate evaluations - Job #2 (2Q83)													Aayyy0	4213	
f. Receive report on Job #1 (3Q83)													Aayyy0	4214	
g. Submit report to Director, DBBS - Job #1 (4Q83)													Aayyy0	4215	
h. Complete evaluations - Job #2 (2Q84)													Aayyy0	4216	
i. Receive report - Job #2 (3Q84)													Aayyy0	4217	
j. Submit report, Job #2, to Director, DBBS (4Q84)													Aayyy0	4218	
.6 Questionnaire Survey													Aayyy0	4219	
a. Complete questionnaire and protocol						o							Aayyy0	4220	
b. Submit protocol to HSRB						o							Aayyy0	4221	
c. Obtain HSRB approval								o					Aayyy0	4222	
d. Submit protocol to OMB								o					Aayyy0	4223	
e. Complete RFC for data collection								o					Aayyy0	4224	
f. Submit RFC to Director, DBBS (1Q83)													Aayyy0	4225	
g. Submit RFC to OAMS (1Q83)													Aayyy0	4226	
h. Obtain OMB clearance (3Q83)													Aayyy0	4227	
i. Award contract (3Q83)													Aayyy0	4228	
j. Initiate survey (4Q83)													Aayyy0	4229	
k. Complete survey (1Q84)													Aayyy0	4230	
l. Receive contractor's report (4Q84)													Aayyy0	4231	
m. Submit final report to Director, DBBS (4Q84)													Aayyy0	4232	
.7 Submit Final Project Report to Director, DBBS (4Q84)													Aayyy0	4233	
.8 Submit project records to Q.A. Unit, DBBS (4Q84)													Aayyy0	4234	
.9 Submit abstract to Director, NIOSH (4Q84)													Aayyy0	4235	
													Aayyy0	4236	

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY				P M F R E U O C N				RESOURCES	
	PLANNED		COMPLETION		G H D		PY		NPF	TF
	I	C	1Q	2Q	3Q	4Q			\$1000	\$1000
6. Job Stress in Video Display Work (B. Stammerjohn, 684-8293) (VOB-kAm-267)(2.0/50.0/110.0)(100/VOB-Oyy-267)	78	83					O b a			
.1 Laboratory Studies									Aayyy0	4239
A. Punch Press Simulation Task									Aayyy0	4240
a. Complete punch-press simulator (3Q78)									Aayyy0	4241
b. Initiate testing of subjects (4Q79)									Aayyy0	4242
c. Complete testing of subjects (4Q81)									Aayyy0	4243
d. Complete data analysis									Aayyy0	4244
e. Complete draft final report									Aayyy0	4245
B. Data Entry Simulation Task									Aayyy0	4246
a. Obtain HSRB approval									Aayyy0	4247
b. Complete simulation task									Aayyy0	4248
c. Initiate testing of subjects									Aayyy0	4249
d. Complete testing of subjects (1Q83)									Aayyy0	4250
e. Complete data analyses (2Q83)									Aayyy0	4251
f. Complete final report (4Q83)									Aayyy0	4252
g. Submit final report to Director, DBBS (4Q83)									Aayyy0	4253
.2 Worksite Studies									Aayyy0	4254
A. University of Wisconsin Contract (210-79-0034)									Aayyy0	4255
a. Award contract (3Q79)									Aayyy0	4256
b. Expand data sample (3Q80)									Aayyy0	4257
c. Review contractor's progress report									Aayyy0	4258
d. Receive contractor's final report									Aayyy0	4259
e. Submit final report to Director, DBBS									Aayyy0	4260
f. Submit abstract of final report to Director, NIOSH									Aayyy0	4261
B. Study of NIOSH Word Processing Operators									Aayyy0	4262
a. Complete design of survey (4Q80)									Aayyy0	4263
b. Administer first round of questionnaire (1Q81)									Aayyy0	4264
c. Complete ophthalmologic examinations (1Q81)									Aayyy0	4265
d. Complete questionnaire survey(2Q81)									Aayyy0	4266
e. Complete data analyses (3Q81)									Aayyy0	4267
f. Submit final report to Director, DBBS									Aayyy0	4268
g. Submit final report to Director, NIOSH									Aayyy0	4269
C. Focal Field Studies									Aayyy0	4270
a. Obtain HSRB clearance									Aayyy0	4271
b. Submit for OMB clearance									Aayyy0	4272
c. Initiate ergonomics survey									Aayyy0	4273
d. Complete ergonomics survey									Aayyy0	4274
e. Initiate questionnaire survey									Aayyy0	4275
f. Obtain OMB clearance									Aayyy0	4276
g. Complete questionnaire survey (2Q83)									Aayyy0	4277
h. Complete study report (3Q83)									Aayyy0	4278
i. Submit report to Director, DBBS (4Q83)									Aayyy0	4279
.3 Submit progress report to Director, DBBS									Aayyy0	4280
.4 Submit final project report to Director, DBBS (4Q83)									Aayyy0	4281
									Aayyy0	4282
									Aayyy0	4283
									Aayyy0	4284

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY				COMPLETION				P M F		R E U		O C N		G H D		PY		RESOURCES	
	I C		1Q		2Q		3Q		4Q										NPF TF	
																			\$1000 \$1000	
.5 Submit project records to Q.A. Unit, DBBS (4Q83)																			Aayyy0	4285
.6 Submit abstract to Director, NIOSH (4Q83)																			Aayyy0	4286
7. Reducing Stress in Video Display Tasks (M. Dainoff, 684-8386)	81	83																	Aayyy0	4287
(VOB-KAG-266)(1.0/30.0/59.0)(100/VOB-Oyy-266)																			Aayyy0	4290
.1 Complete peer review (2Q81)																			Aayyy0	4291
.2 Obtain HSRB approval for subject testing (2Q81)																			Aayyy0	4292
.3 Laboratory Studies																			Aayyy0	4293
a. Complete development of task simulation (1Q81)																			Aayyy0	4294
b. Submit progress report to Director, DBBS																			Aayyy0	4295
c. Initiate testing: lighting & furniture																			Aayyy0	4296
d. Complete testing: lighting & furniture																			Aayyy0	4297
e. Initiate work/rest regimens testing																			Aayyy0	4298
f. Complete work/rest regimens																			Aayyy0	4299
g. Initiate testing of lighting																			Aayyy0	4300
h. Complete testing of lighting																			Aayyy0	4301
i. Initiate testing of furniture effects																			Aayyy0	4302
j. Complete testing of furniture effects																			Aayyy0	4303
k. Initiate testing of revised work/rest regimens (1Q83)																			Aayyy0	4304
l. Complete revised work/rest regimens (2Q83)																			Aayyy0	4305
m. Initiate glare control testing (2Q83)																			Aayyy0	4306
n. Complete glare control testing (2Q83)																			Aayyy0	4307
o. Complete study report (3Q83)																			Aayyy0	4308
p. Submit study report to Director, DBBS (4Q83)																			Aayyy0	4309
.4 NAS Conference																			Aayyy0	4310
a. Initiate IA with NAS for Conference (1Q81)																			Aayyy0	4311
b. Conduct Conference (4Q81)																			Aayyy0	4312
c. Receive Conference Proceedings																			Aayyy0	4313
d. Receive final report																			Aayyy0	4314
e. Submit final report to Director, DBBS																			Aayyy0	4315
.5 Submit final report to Director, DBBS (4Q83)																			Aayyy0	4316
.6 Submit project records to Q.A. Unit, DBBS (4Q83)																			Aayyy0	4317
.7 Submit abstract to Director, NIOSH (4Q83)																			Aayyy0	4318
																			Aayyy0	4319
																			Aayyy0	4320
																			Aayyy0	4321

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY				P M F				RESOURCES	
	PLANNED COMPLETION				R E U				NPF TF	
	O C N				G H D					
	I	C	1Q	2Q	3Q	4Q	PY	\$1000	\$1000	
8. Studies of Stress Reduction Approaches (L. Murphy, 684-8293) (VOB-mAy-269)(1.0/95.0/120.0)(100/VOB-Oyy-269)	79	83					O c a			Aayyy0 4324 Aayyy0 4325 Aayyy0 4326 Aayyy0 4327 Aayyy0 4328 Aayyy0 4329 Aayyy0 4330 Aayyy0 4331 Aayyy0 4332 Aayyy0 4333 Aayyy0 4334 Aayyy0 4335 Aayyy0 4336 Aayyy0 4337 Aayyy0 4338 Aayyy0 4339 Aayyy0 4340 Aayyy0 4341 Aayyy0 4342 Aayyy0 4343 Aayyy0 4344 Aayyy0 4345 Aayyy0 4346 Aayyy0 4347 Aayyy0 4348 Aayyy0 4349 Aayyy0 4350 Aayyy0 4351 Aayyy0 4352 Aayyy0 4353 Aayyy0 4354 Aayyy0 4355 Aayyy0 4356 Aayyy0 4357 Aayyy0 4358 Aayyy0 4359
.1 UCLA Job Stress Conference										
a. Cosponsor conference (1Q79)										
b. Receive conference proceedings (4Q79)										
c. Submit edited proceedings to Director, DBBS (2Q80)										
d. Submit abstract to Director, NIOSH (3Q80)										
.2 Conduct peer review (2Q80)										
.3 Submit progress report to Director, DBBS			o	o	o	o				
.4 Worksite Studies										
a. Complete training program, nurses (4Q80)										
b. Initiate training program, sales clerks (4Q80)										
c. Initiate training program, blue collar workers (3Q81)										
d. Complete training program, sales clerks (2Q81)										
e. Submit report, nurses, to Director, DBBS (4Q81)										
f. Submit report, sales clerks, to Dir., DBBS (4Q81)										
g. Complete blue collar workers					o					
h. Initiate analysis of followup data						o				
i. Complete relaxation data analysis						o				
j. Complete follow-up data analysis (1Q83)										
k. Submit final report to Director, DBBS (4Q83)										
.5 Stress Management Data Purchase										
a. Purchase stress reduction data (2Q80)										
b. Receive report from contractor (4Q80)										
c. Submit report to Director, DBBS (1Q81)										
d. Submit data purchase orders to OAMS				o						
e. Receive reports from contractor						o				
f. Submit reports to Director, DBBS						o				
.6 Stress Control Manual										
a. Submit manual to Director, DBBS (4Q83)										
b. Submit manual to DTMD (4Q83)										
.7 Submit final project report to Director, DBBS (4Q83)										
.8 Submit abstract to Director, NIOSH (4Q83)										
.9 Submit project records to Q.A. Unit, DBBS (4Q83)										

PHYSICAL AGENTS

The NIOSH physical agents program includes research studies in industrial radiation, occupational vibration, bioacoustics, and atmospheric extremes. Estimates of the work force population exposed to these agents are as high as 25 percent for industrial radiation, 10 percent for whole-body and segmental vibration, 25 percent to noise, and 25 percent to heat, cold, and pressure variations. By necessity, the program is composed of both field and inhouse laboratory research requiring a multidisciplinary approach. From workplace surveys and target occupational groups, industries that have potentially excessive exposures are identified and data collected. Medical and epidemiologic followup studies identify the specific hazard to the worker and the degree of injury. The adequacy of control technology strategies, including both administrative and engineering controls, is evaluated when indicated and specific recommendations made for reducing worker exposure.

Division of Biomedical and Behavioral Sciences

The DBBS program area in physical agents consists of projects in:

1. Industrial Radiation--Work previously completed has shown that radio frequency (RF) radiation under laboratory conditions is teratogenic. Staff have worked with DSDTT staff to produce a control technology guide that outlines the hazards of RF radiation from heat sealers and provides recommendations bearing on reducing workers' exposure. Continued research in RF radiation will include development of dosimetry equipment and examination of possible biological effects of low-frequency electromagnetic energy. An initiative in the area of optical radiation will be proposed if recommendations from the FY 1982 Symposium on Macular Degeneration so indicate.
2. Occupational Vibration--A research program that has investigated the prevalence of vibration white-finger disease will be concluded in FY 1982. Evaluation of protection from vibration afforded by different glove materials will be accomplished. Also in FY 1982, initial planning efforts directed toward whole-body vibration research will be undertaken.
3. Bioacoustics--The occupational bioacoustic program focuses on hearing conservation and hazards associated with impact/impulse noise. Previous work has provided an estimate of 3.7 million workers exposed to impact/impulse noise, and initial efforts were begun to develop sound-level meters capable of measuring impact/impulse noise. A field study of impact-noise-exposure levels in the U.S., to be initiated in FY 1982, will provide information enabling work practices and

equipment that protect against impact noise in a manner similar to that produced from continuous noise. Validation of field methods proposed for determining effectiveness of ear plugs will be undertaken in FY 1982.

4. Atmospheric Extremes--In FY 1981 proceedings of a NIOSH workshop on heat stress were printed and distributed to interested government agencies, labor groups, and industries. Research in heat stress will continue to focus on the derivation of heat-stress indices appropriate for detection of imminent danger in miners. FYs 1982 and 1983 will be the second and third years of the 4-year effort to develop safety and health guides to prevent illnesses and injuries from cold exposure. Also during FYs 1982 and 1983, NIOSH will continue to identify health and safety problems of divers through interagency agreements with the National Oceanic and Atmospheric Administration and OSHA.

Division of Surveillance, Hazard Evaluations, and Field Studies

The physical agents research being conducted in DSHEFS pertains to ionizing and nonionizing radiation. The ongoing studies involving ionizing radiation include epidemiologic/industrial hygiene studies of uranium miners and millers, nuclear shipyard workers, and workers at a uranium enrichment plant. In FY 1981, the retrospective cohort mortality portion of the nuclear shipyard study was completed.

An ongoing study in ionizing radiation involves an assessment of effects on the reproductive systems of female employees exposed to microwave radiation. However, a suitable cohort has not been found to date.

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY				P M F				RESOURCES				
	PLANNED COMPLETION				R E U				NPF TF				
	I	C	1Q	2Q	3Q	4Q	G	H	D	PY	\$1000	\$1000	
*****PHYSICAL AGENTS*****													
											Q	4363	
											Q	4364	
DIVISION OF BIOMEDICAL AND BEHAVIORAL SCIENCE											A	Q	4365
											A	Q	4366
1. Effects of Impulse Noise on the Auditory Systeem (1152)--											A	Q	4367
6/30/83--\$98,213--D. Wasserman											A	Q	4368
											A	Q	4369
2. Whole Body Vibration: Health Effects (D. Badger, 684-8286)	79	82					Q	c	a		AafyyQ		4371
(VOB-nHf-279)(100/VOB-Qfy-279)											AafyyQ		4372
											AafyyQ		4373
.1 Complete peer review (2Q80)											AafyyQ		4374
.2 Submit progress report to Director, DBBS				o	o	o	o				AafyyQ		4375
.3 In-house Animal Tests											AafyyQ		4376
a. Complete installation of body shaker (4Q80)											AafyyQ		4377
b. Initiate primate testing (2Q81)											AafyyQ		4378
c. Complete primate testing					o						AafyyQ		4379
d. Complete final report						o					AafyyQ		4380
e. Submit final report to Director, DBBS							o				AafyyQ		4381
f. Submit abstract to Director, NIOSH							o				AafyyQ		4382
.4 Submit project records to Q.A. Unit, DBBS							o				AafyyQ		4383
											AafyyQ		4384
3. Health and Safety Effects of Cold Stress (W. Carlson, 684-8286)	81	84					Q	b	a		AafyyQ		4387
(VOB-eAf-283)(1.0/90.0/120.0)(1.0/60.0/90.0)(100/VOB-Qfy-283)											AafyyQ		4388
											AafyyQ		4389
.1 Prepare project protocol (2Q81)											AafyyQ		4390
.2 Hold project peer review (3Q81)											AafyyQ		4391
.3 Submit quarterly report to OD, DBBS				o	o	o	o				AafyyQ		4392
.4 Submit revised protocol to OD, DBBS					o						AafyyQ		4393
.5 Obtain HSRB approval					o						AafyyQ		4394
.6 Submit cooperative agreement to OAMS						o					AafyyQ		4395
.7 Award cooperative agreement						o					AafyyQ		4396
.8 Analyze existing data bases											AafyyQ		4397
a. Assess injury records with DSR						o					AafyyQ		4398
b. Assess/evaluate target work sites							o				AafyyQ		4399
c. Establish decision point for "Worst Case"							o				AafyyQ		4400
.9 Identify 5 worksites with high cold risks (1Q83)											AafyyQ		4401
.10 Perform initial probe study (2Q83)											AafyyQ		4402
.11 Introduce corrective interventions (3Q83)											AafyyQ		4403
.12 Monitor progress of interventions (4Q83)											AafyyQ		4404
.13 Perform follow up tests and evaluations (2Q84)											AafyyQ		4405
.14 Submit final report to OD, NIOSH (4Q84)											AafyyQ		4406
.15 Submit abstract to Director, NIOSH (4Q84)											AafyyQ		4407
.16 Submit project records to Q.A. Unit, DBBS (4Q84)											AafyyQ		4408
											AafyyQ		4409

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY		PLANNED COMPLETION				P M F	RE U		RESOURCES	
	I	C	1Q	2Q	3Q	4Q	O C N	G H D	PY	NPF	TF
										\$1000	\$1000
4. Clothing Selection in Cold Environments (R. James, 684-8469) (0.9/34.1/64.1)(100/VOA/Qfi-307)	82	83					Q c a				
.1 Submit progress report to Director, DBBS			o	o	o	o				AafiuQ	4412
.2 Initiate literature search			o							AafiuQ	4413
.3 Submit fee for services requisition			o							AafiuQ	4414
.4 Obtain final report from consultant					o					AafiuQ	4415
.5 Conduct field investigations on winter clothing design			o	o	o	o				AafiuQ	4416
.6 Complete literature search						o				AafiuQ	4417
.7 Submit articles for publication						o				AafiuQ	4418
.8 Obtain work practices report from consultant						o				AafiuQ	4419
.9 Complete review of all data (2Q83)										AafiuQ	4420
.10 Prepare recommendations for clothing use (3Q83)										AafiuQ	4421
.11 Submit report for publication (3Q83)										AafiuQ	4422
.12 Submit report to Unions, and management (4Q83)										AafiuQ	4423
.13 Submit final report to Director, DBBS (4Q83)										AafiuQ	4424
.14 Submit abstract of final report to Director, NIOSH (4Q83)										AafiuQ	4425
										AafiuQ	4426
										AafiuQ	4427
										AafiuQ	4428
										AafiuQ	4429

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY				PLANNED COMPLETION				P M F		R E U		O C N		G H D		PY		RESOURCES	
	I C		1Q		2Q		3Q		4Q										NPF TF	
																			\$1000 \$1000	
5. Safety and Health of Commercial Divers (D. Badger, 684-8286) (VOB-aXb-296)(1.0/90.0/120.0)(100/VOB-Qfy-296)	80	83									Q	b	a						AafyyQ	4432
.1 Complete peer review (1Q80)																			AafyyQ	4433
.2 Establish diver data process center (1Q80)																			AafyyQ	4434
.3 Award contract for X-ray (osteonecrosis)(3Q80)																			AafyyQ	4435
.4 Award contract "Hyperbaric Cond./Drugs" (4Q80)																			AafyyQ	4436
.5 Complete workshop "Common Drugs/hyperbaric Testing" (4Q80)																			AafyyQ	4437
.6 Complete Workshop "Methods/Sudden Loss Consciousness" (4Q80)																			AafyyQ	4438
.7 Receive draft "Decompression Tables for Tunnel Work (3Q80)																			AafyyQ	4439
.8 Receive report "Hyperbaric Conditions/Reprod." (2Q80)																			AafyyQ	4440
.9 Establish National Diving Accident Network (3Q80)																			AafyyQ	4441
.10 Initiate I.A. University Rhode Island Diver Mortality (1Q80)																			AafyyQ	4442
.11 Submit progress report to Director, DBBS																			AafyyQ	4443
.12 Update National Plan for Safety and Health of Divers																			AafyyQ	4444
a. Submit RFC to Director, DBBS																			AafyyQ	4445
b. Submit RFC to OAMS																			AafyyQ	4446
c. Award contract (3Q82)																			AafyyQ	4447
d. Review contractor's reports																			AafyyQ	4448
e. Monitor contract (2Q83)																			AafyyQ	4449
f. Submit final report to Director, DBBS (4Q83)																			AafyyQ	4450
g. Submit abstract to Director, NIOSH (4Q83)																			AafyyQ	4451
.13 Diving in Polluted Waters																			AafyyQ	4452
a. Execute agreement with NOAA for report (1Q81)																			AafyyQ	4453
b. Monitor progress of report development (2Q81)(4Q81)																			AafyyQ	4454
c. Receive final report																			AafyyQ	4455
d. Submit final report to Director, DBBS																			AafyyQ	4456
e. Submit abstract of final report to Director, NIOSH																			AafyyQ	4457
.14 Drug Effects Under Hyperbaric Conditions																			AafyyQ	4458
a. Award contract (4Q80)																			AafyyQ	4459
b. Initiate experimentation (1Q81)																			AafyyQ	4460
c. Complete 3 of 10 drug tests (2Q81)																			AafyyQ	4461
d. Receive interim report (4Q81)																			AafyyQ	4462
e. Complete 7 of 10 drug tests (3Q81)																			AafyyQ	4463
f. Complete all drug testing																			AafyyQ	4464
g. Receive final report																			AafyyQ	4465
h. Submit final report to Director, DBBS																			AafyyQ	4466
i. Submit abstract of final report to Director, NIOSH																			AafyyQ	4467
.15 National Diving Accident Network																			AafyyQ	4468
a. Baseline Data on Divers																			AafyyQ	4469
1. Execute IA with OSHA on physical exams (1Q81)																			AafyyQ	4470
2. Monitor number of exams given (2Q81, 3Q81)																			AafyyQ	4471
3. Complete 100 exams																			AafyyQ	4472
4. Input data into network																			AafyyQ	4473
b. Diving Accident Centers (Duke University)																			AafyyQ	4474
1. Monitor reports from centers on diving accidents																			AafyyQ	4475
																			AafyyQ	4476
																			AafyyQ	4477

										P M F		R E U		O C N		G H D		PY		RESOURCES			
PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER										FY		PLANNED		COMPLETION						NPF		TF	
										I	C	1Q	2Q	3Q	4Q					\$1000	\$1000		
2. Receive data summaries of diver accident pathology/mortality (1Q83)												o										AafyyQ	4478
3. Submit IA for training manual development														o								AafyyQ	4479
4. Receive training manual (3Q83)																						AafyyQ	4480
5. Submit training manual (3Q83)																						AafyyQ	4481
c. University of Rhode Island Mortality Study																						AafyyQ	4482
1. Monitor collection of fatality cases												o	o	o	o							AafyyQ	4483
2. Receive summaries of diver fatality statistics												o		o								AafyyQ	4484
																						AafyyQ	4485
																						AafyyQ	4486

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY		PLANNED COMPLETION				P M F			RE U		RESOURCES	
	I	C	1Q	2Q	3Q	4Q	G	H	D	PY	NPF	TF	

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY				P M F				RESOURCES			
	PLANNED COMPLETION				R E U				NPF TF			
	I	C	1Q	2Q	3Q	4Q	G	H	D	PY	\$1000	\$1000
.8 Submit abstract to Director, NIOSH												
.9 Submit project records to Q.A. Unit, DBBS												
7. Work Practices for Vibration Reduction (V. Behrens, 684-8281)	82	82										
(100/VOG-Qfi-366)												
.1 Begin designing Test Instrumentation System (TIS)												
.2 Complete survey of glove manufacturers												
.3 Order gloves for testing												
.4 Complete designing TIS												
.5 Begin implementation of TIS												
.6 Complete implementation of TIS												
.7 Complete evaluation of TIS												
.8 Complete SOP												
.9 Conduct peer review												
.10 Submit protocol to Director, DBBS												
.11 Begin glove test												
.12 Complete glove testing												
.13 Complete data analysis												
.14 Submit draft final report to Director, DBBS												
.15 Submit abstract to Director, NIOSH												
.16 Submit project records to Q. A. Unit, DBBS												

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY		PLANNED COMPLETION				P M F R E U O C N			RESOURCES	
	I C		1Q	2Q	3Q	4Q	G	H	D	PY	
8. RF/Microwave Dosimetry Development (D. Conover, 684-8482) (VOG-hCa-353)(100/VOG-Qaf-353)	81	82					Q	d	a		
.1 Magnetic Field Probes - NBS											
a. Submit NBS IA to Director, DBBS (1Q81)										AeafyQ	4562
b. Submit IA to OPPE (1Q81)										AeafyQ	4563
c. Award IA (2Q81)										AeafyQ	4564
d. Initiate Magnetic Field Probe design (2Q81)										AeafyQ	4565
e. Complete probe design (3Q81)										AeafyQ	4566
f. Deliver Magnetic Field Probe to NIOSH (4Q81)										AeafyQ	4567
g. Receive final IA report (4Q81)										AeafyQ	4568
h. Submit final report to Director, DBBS (4Q81)										AeafyQ	4569
i. Submit abstract to Director, NIOSH (4Q81)										AeafyQ	4570
.2 RF Power Absorption Analyzer - NBS										AeafyQ	4571
a. Submit NBS IA to Director, DBBS (1Q81)										AeafyQ	4572
b. Submit IA to OPPE (1Q81)										AeafyQ	4573
c. Award IA (2Q81)										AeafyQ	4574
d. Initiate absorption analyzer development (2Q81)										AeafyQ	4575
e. Complete design						o				AeafyQ	4576
f. Receive higher frequency RF absorption analyzer							o			AeafyQ	4577
g. Receive final IA report							o			AeafyQ	4578
h. Submit final report to Director, DBBS							o			AeafyQ	4579
i. Submit abstract to Director, NIOSH							o			AeafyQ	4580
.3 Submit progress report to Director, DBBS			o	o	o		o			AeafyQ	4581
.4 Submit final project report to Director, DBBS							o			AeafyQ	4582
.5 Submit abstract to Director, DBBS							o			AeafyQ	4583
										AeafyQ	4584
										AeafyQ	4585
										AeafyQ	4586
										AeafyQ	4587
										AeafyQ	4588

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY				P M F				R E U				RESOURCES	
	PLANNED COMPLETION				O C N				NPF TF					
	I C 1Q 2Q 3Q 4Q				G H D PY				\$1000 \$1000					
9. Imminent Danger from Heat Stress in Mines (R. James, 684-8286) (VOA/nXf/305)(1.1/18.0/50.0)(100/VOA-Qfm-305)	80	83							Q	b	a		AefmnQ	4591
													AefmnQ	4592
													AefmnQ	4593
.1 Consult Information Office (1Q80)													AefmnQ	4594
.2 Submit progress report to Director, DBBS			o	o	o	o							AefmnQ	4595
.3 Workshop on Heat Stress													AefmnQ	4596
a. Complete proceedings of workshop (3Q80)													AefmnQ	4597
b. Submit proceedings to Director, DBBS (3Q80)													AefmnQ	4598
c. Submit abstract of proceedings to Director, NIOSH (4Q80)													AefmnQ	4599
.4 Worksite Investigation													AefmnQ	4600
a. Submit RFC to Director, DBBS (2Q80)													AefmnQ	4601
b. Negotiate contract (4Q80)													AefmnQ	4602
c. Award contract (2Q81)													AefmnQ	4603
d. Contract Monitoring													AefmnQ	4604
e. Obtain HSRB clearance			o										AefmnQ	4605
f. Submit application for OMB clearance			o										AefmnQ	4606
g. Obtain OMB clearance					o								AefmnQ	4607
h. Begin summer phase of study							o						AefmnQ	4608
i. Complete summer phase of study							o						AefmnQ	4609
j. Start winter phase of study (1Q83)													AefmnQ	4610
k. Complete winter phase of study (2Q83)													AefmnQ	4611
l. Complete data analysis (3Q83)													AefmnQ	4612
m. Contractor submits final report (4Q83)													AefmnQ	4613
n. Submit final report to Director, DBBS (4Q83)													AefmnQ	4614
o. Submit abstract to Director, NIOSH (4Q83)													AefmnQ	4615
p. Submit project records to Q. A. Unit, DBBS (4Q83)													AefmnQ	4616
.5 Heat Stress Guides													AefmnQ	4617
a. Begin writing Guide #1 (1Q81)													AefmnQ	4618
b. Submit Guide #1 for NIOSH clearance			o										AefmnQ	4619
c. Issue fee for service contract for Guide #2 (4Q81)													AefmnQ	4620
d. Submit Guide #2 for NIOSH clearance						o							AefmnQ	4621
e. Submit Guides to Director, DBBS						o							AefmnQ	4622
f. Submit Guides to Director, DCDS						o							AefmnQ	4623
.6 Cardiovascular Effects of Heat Stress													AefmnQ	4624
a. Initiate literature search			o										AefmnQ	4625
b. Complete literature search				o									AefmnQ	4626
c. Complete draft project concept						o							AefmnQ	4627
d. Submit concept memorandum to Director, DBBS						o							AefmnQ	4628
													AefmnQ	4629

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY				PLANNED COMPLETION				P M F			RESOURCES	
	I C		1Q	2Q	3Q	4Q	G H D	PY	O C N			NPF	TF
												\$1000	\$1000
DIVISION OF SAFETY RESEARCH													
10. Effects of Heat on Safe Work Behavior (Jensen 923-7454)	79	82					Q b a					E Q	4632
(VLD-abf-836)(100/VEb-Qfy-836)												E Q	4633
.1 Awarded contract No. 210-79-0021 (4Q79)												EbfyyQ	4634
.2 Initiated data collection (3Q80)												EbfyyQ	4635
.3 Submitted time and cost extension of contract to OPPE (3Q81)												EbfyyQ	4636
.4 Data collection completed 4Q81)												EbfyyQ	4637
.5 Receive draft final report from contractor												EbfyyQ	4638
.6 Complete technical review (evaluate & edit)												EbfyyQ	4639
.7 Present research findings to OSHA												EbfyyQ	4640
.8 Submit approved final report to NITS												EbfyyQ	4641
.9 Transmit abstract to Director, NIOSH												EbfyyQ	4642
.10 Prepare manuscript for journal publication												EbfyyQ	4643
.11 Complete technical review of manuscript for journal publication												EbfyyQ	4644
.12 Submit manuscript for publication in the appropriate journal												EbfyyQ	4645
In-House Assement of Workers' Compensation Data												EbfyyQ	4646
.13 Draft report on workers' compensation data for heat induced injury												EbfyyQ	4647
.14 Complete technical review of report												EbfyyQ	4648
.15 Obtain final clearance for publication												EbfyyQ	4649
.16 Submit paper for publication												EbfyyQ	4650
												EbfyyQ	4651
												EbfyyQ	4652
												EbfyyQ	4653
												EbfyyQ	4654
												EbfyyQ	4655
												EbfyyQ	4656
												EbfyyQ	4657

CONTROL OCCUPATIONAL SAFETY AND HEALTH PROBLEMS

NIOSH's goal, to control occupational safety and health problems, is the heart of its prevention program. Under this goal NIOSH assesses solutions to identified new and emerging problems through the disciplines of engineering, ergonomics, and industrial hygiene and safety. NIOSH investigators recommend systems to control occupational hazards, including engineering design, protective equipment, and work practices, as well as environmental and medical monitoring to detect failure in the control system. The following long-range objectives for the Nation are addressed under this goal:

Safety

1. By 1990, workplace accidental deaths for employers with 11 or more employees should be reduced to less than 3,750 annually. (In 1978, there were 4,170 work-related fatalities for employers with 11 or more employees.)
2. By 1990, the rate of work-related disabling injuries should be reduced to 8.3 cases per 100 full-time workers. (In 1978, there were about 9.2 cases per 100 workers.)
3. By 1990, lost workdays due to injuries should be reduced to 55 per 100 workers annually. (In 1978, about 62.1 work days per 100 workers were lost.)
4. By 1990, the prevalence of occupational noise-induced hearing loss should be reduced to 415,000 cases. (In 1975, there were an estimated 462,000 cases of work-related hearing loss.)

Respiratory Health

5. By 1990, among workers newly exposed after 1985, there should be virtually no new cases of asbestosis. (In 1979, there were an estimated 5,000 cases of asbestosis.)
6. By 1990, among workers newly exposed after 1985, there should be virtually no new cases of byssinosis. (In 1977, an estimated 84,000 cases of byssinosis were expected in active workers.)
7. By 1990, among workers newly exposed after 1985, there should be virtually no new cases of silicosis. (In 1979, an estimated 60,000 cases of silicosis were expected among active workers in mining, foundries, stone, clay and glass products, and abrasive blasting.)

8. By 1990, among workers newly exposed after 1985, there should be virtually no new cases of coal workers' pneumoconiosis. (In 1974, there were an estimated 19,400 cases of coal workers' pneumoconiosis.)
9. By 1990, occupational heavy-metal poisoning (lead, arsenic, zinc) should be virtually eliminated. (Baseline data unavailable.)

Cutaneous Health

10. By 1990, the incidence of compensable occupational dermatitis should be reduced to about 60,000 cases. (In 1976, there were about 70,000 cases involving compensation.)

And the following FY 1982 objectives requested by DOL's NIOSH Planning Group also are considered under this goal:

First-Order Priority

1. Develop a system, for MSHA, to certify the performance of new types of mine dust sampling equipment.
2. Develop and improve sampling and analytical methods, for OSHA, on 2-acetylaminofluorene, propylene imine, B-propiolactone, maneb, cyanic acid, benzidine yellow, benzidine orange, monoacetyl derivatives of benzidine, osmium tetroxide, phosgene, chlorinated dibenzofurans, and asbestos.

Second-Order Priority

3. Assess the problems involved with protection from falls to provide the foundation for an integrated body of fall-protection standards, for OSHA, on ladder design; safety-net design and condition; life line, safety belts, and safety harness design; guard rail design; walking-working surface friction; and rest-platform spacing in long-ladder systems.
4. Establish a program, for OSHA, to address questions relating to personal protective equipment such as respirators and clothing, and to decontamination procedures.

Third-Order Priority

5. Develop and operate a system, for OSHA, for processing and storing audiograms provided to coal miners by operators.
6. Develop a system that is accessible to all MSHA field offices for analyzing potable water samples.
7. Develop technology, for MSHA, for the control of mercury fumes and vapors in the mining industry.
8. Develop criteria, for OSHA, for physicians to use in determining an individual worker's ability to wear respirators.

RESPIRATORS

Two recent events have focused national attention on and provided direction to the legislatively mandated NIOSH respirator program: First, a panel of recognized experts found that the MSHA/NIOSH respirator approval system needed a major upgrading of the respirator performance requirements that are published in Title 30, Code of Federal Regulations, Part 11. Second, an International Respirator Research Workshop sponsored by NIOSH, revealed needs for (1) the availability of more effective and comfortable respirators, (2) development of better respirator programs, (3) upgrading of respirator performance requirements, and (4) determination of whether the added breathing resistance created by the use of respirators can be used as a factor in determining the effect of such use upon workers with obstructed airways. In response to both of these events, NIOSH has begun a research effort to develop new respirator performance requirements. NIOSH will systematically determine the levels of protection required by respirator wearers and develop performance requirements and test procedures that will ensure that respirator wearers will obtain the protective levels they have come to expect of MSHA/NIOSH-approved respirators. At the same time, the development of better respirator programs and encouraging the availability of better respirators will be carried forward by cooperative efforts with the respirator manufacturers and users. The MSHA/NIOSH respirator approval program continues, but NIOSH is conducting an evaluation of previously approved respirators through an active field evaluation program.

Division of Respiratory Disease Studies

DRDS will investigate the effects of respirator use (added breathing resistance) under conditions of high metabolic demand. The physiologic demands of breathing through a fixed added resistance for long time periods at low work loads and for short periods at high work loads will be evaluated under the controlled setting of the Division's exercise-testing laboratory. The results of this study will provide additional research information necessary for the establishment of criteria for determining whether a worker is medically fit to wear a respirator under the demand conditions of his or her employment.

Division of Safety Research

DSR has assembled a basic staff of professional personnel who are knowledgeable in all areas of respiratory protection. These personnel, together with contractors and consultants as required, will

continue the MSHA/NIOSH respirator approval program, evaluate that program using field investigative techniques, and implement a strong, innovative respirator research program. Research efforts will be conducted in cooperation with industry, universities, and respirator manufacturers and will focus first on upgrading the present requirements of the existing approval regulations, 30 CFR Part 11.

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY				PLANNED COMPLETION				P M F			RE U		O C N		RESOURCES	
	I C				1Q 2Q 3Q 4Q				G H D			PY		NPF TF		\$1000 \$1000	
*****RESPIRATORS*****																	
DIVISION OF RESPIRATORY DISEASE STUDIES																	
1. Respirator Use Under Conditions of High Metabolic Demands (Bauer M 304-599-7223)(2.0/54.3/114.3)(100/VCC-Ddm-212)	82	83															
.1 Develop protocol for human subject exercise testing																	D 4661
.2 Modification of existing facilities																	D 4662
.3 Begin studies on human subjects																	C D 4663
.4 Complete studies on 1/4 of study population																	C D 4664
.5 Complete studies of 1/2 of study population (1Q83)																	CodmyD 4666
.6 Complete studies on subjects (3Q83)																	CodmyD 4667
.7 Complete data analysis (4Q83)																	CodmyD 4668
.8 Submit final report and abstract to Director, NIOSH, with with copy of report and abstract to DTS (4Q83)																	CodmyD 4669
																	CodmyD 4670
																	CodmyD 4671
																	CodmyD 4672
																	CodmyD 4673
																	CodmyD 4674
																	CodmyD 4675
																	CodmyD 4676
																	CodmyD 4677
																	CodmyD 4678
2. Effects of Added Resistance to Breathing (Hodous T 304-599-7223) (VKH-eDp-217)(100/VCC-Dmm-217)	77	82															CodmyD 4681
.1 Select and identify subjects																	CodmyD 4682
.2 Complete collection of data																	CodmyD 4683
.3 Complete analysis of data																	CodmyD 4684
.4 Submit final report and abstract to Director, NIOSH, with copy of report and abstract to DTS																	CodmyD 4685
																	CodmyD 4686
																	CodmyD 4687
																	CodmyD 4688
																	CodmyD 4689

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	C	PLANNED COMPLETION				P M F R E U O C N		RESOURCES																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	C	PLANNED COMPLETION				P M F R E U O C N			RESOURCES	
			1Q	2Q	3Q	4Q	G	H	D	PY	
5. Field Investigations and N.C.E. Documentation Program-FIG-(Myers 923-7331) (VLI-mpb-857)(7.0/150.0/360.0)(100/VEd-Dyy-857)	81	C							D a a		
.1 Respond by phone, letter, or report to user complaints:											
a. 80% completed by letter or phone 5 days after receiving complaint;											
b. 13% completed with laboratory report 30 days after completion of lab testing;											
c. 7% completed as research reports from on-going site investigations 60 days after completion of lab analysis											
.2 Dimensional analysis report on equipment received from from field problem complaints											
a. 75% completed 30 days after laboratory performance testing;											
b. 100% completed 45 days after laboratory performance testing											
.3 Update NIOSH current actions list and distribute new list to Director, DSR, NIOSH, and Regional Offices in 5 days after update notification											
.4 Prepare and submit to Director, DSR, stop sale letters, users notices, or other recommendations on 100% of all NIOSH certified equipment approval violations within 20 days after violation verification.											
.5 Evaluate for completeness certifications and extension of certification application packages received by TCB and track 100% of active projects											
a. Evaluate 75% of application packages in 20 days											
b. Evaluate 100% of application packages in 30 days											
.6 Computer documentation of certified equipment components (lines of data documented K=1000)			18K	36K	54K	72K					
.7 Microprocessing of engineering documents (microprocessing steps handled)			15K	30K	45K	60K					

EdyyyD 4742
EdyyyD 4743
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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY				PLANNED COMPLETION				P M F R E U D C N			RESOURCES	
	I C		1Q	2Q	3Q	4Q	G H D	PY	NPF TF			\$1000	\$1000
6. P.P.E. Class Audits - FIG - (Myers 923-7331) (VLI-mpb-857)(100/VEd-Dyy-822)	81	82					D a a					EdyyyD	4778
.1 Order equipment for audit testing												EdyyyD	4779
a. APR equipment			3	6	9	12						EdyyyD	4780
1. Routine			o	o	o	o						EdyyyD	4781
2. Audit arising from complaints			o	o	o	o						EdyyyD	4782
3. Audit arising from problems found in 1 and 2			o	o	o	o						EdyyyD	4783
b. ASR equipment			10	20	30	40						EdyyyD	4784
1. Routine			o	o	o	o						EdyyyD	4785
2. Audit arising from complaints			o	o	o	o						EdyyyD	4786
3. Audits resulting from problems found in 1 and 2			o	o	o	o						EdyyyD	4787
c. CMDPS equipment			1	2	3	3						EdyyyD	4788
1. Routine			o	o	o	o						EdyyyD	4789
2. Audit arising from complaints			o	o	o	o						EdyyyD	4790
3. Audits resulting from problems found in 1 and 2			o	o	o	o						EdyyyD	4791
.2 Dimensional analysis reports on equipment received from routine audits and/or complaints audits			15	30	45	60						EdyyyD	4792
a. 75% completed 30 days after lab performance testing			11	22	33	44						EdyyyD	4793
b. 100% completed 45 days after lab performance testing			4	8	12	16						EdyyyD	4794
.3 Prepare class audit reports												EdyyyD	4795
a. Prepare 60% of reports 60 days after completion of lab analysis					o	o						EdyyyD	4796
b. Prepare 100% of reports 90 days after completion of lab analysis					o	o						EdyyyD	4797
7. Audits of Used SCBA - FIG (Myers 923-7331) (VLI-mpb-857) (100/VEd-Dyy-840)	81	82					D b a					EdyyyD	4798
.1 Submit RFC.			o									EdyyyD	4799
.2 Award contract					o							EdyyyD	4800
.3 Evaluation of approved configuration against actual configuration of used units "in-house"					o							EdyyyD	4801
.4 Contract testing completed (1Q83)												EdyyyD	4802
.5 Submit report to Director, DSR (2Q83)												EdyyyD	4803
8. Field Evaluation of Pesticide Respirators - FIG (Myers 923-7331) (VLI-mpb-857) (100/VEd-Day-862)	81	82					D a a					EdyyyD	4804
.1 Purchase test equipment				o								EdyyyD	4805
.2 Select survey plants and set up survey dates					o							EdyyyD	4806
.3 Conduct walk through survey						o						EdyyyD	4807
.4 Conduct and complete all field investigations						o						EdyyyD	4808
.5 Submit report to Director, DSR(2Q83)												EdyyyD	4809

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY				PLANNED COMPLETION				P M F		R E U		O C N		G H D		PY		RESOURCES			
	I		C		1Q	2Q	3Q	4Q											NPF	TF		
																			\$1000	\$1000		
9. Field P.F. for Powered Respirators - FIG - (Meyers 923-7331) (VLI-mpb-857)(100/VEd-Dyy-863) .1 Purchase test equipment (4Q81) .2 Identify and prioritize possible survey sites (4Q81) .3 Select survey sites (4Q81) .4 Conduct walk through survey (4Q81) .5 Conduct field surveys (4Q81) .6 Complete field surveys .7 Analysis of field samples .8 Interim draft report to Director, DSR .9 Final Report to Director, DSR, and Director, NIOSH	81	82							D	a	a										EdyyyD	4826
																					EdyyyD	4827
																					EdyyyD	4828
																					EdyyyD	4829
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																					EdyyyD	4837
10. Part 11 - Performance Requirements Update (Knowles 923-7335) (VLI-mpb-850) (5.0/450.0/600.0) (100/VEd-Dyy-850) .1 Complete first phase rewrite of "Part 11 Performance Requirements Update" from FY81 project efforts .2 Complete indepth detailed research needs scoping report outlining in a prioritized manner the most pressing research gaps and what must be done to fill those gaps .3 Complete detailed research protocols for future in-house programs as identified in scoping report .4 Develop detailed research protocol for RFC and submit to Contracts Office .5 Complete project plans for FY83 research efforts .6 Complete in-house research progress report on activities outlined in scoping report	81	83							D	b	a										EdyyyD	4840
																					EdyyyD	4841
																					EdyyyD	4842
																					EdyyyD	4843
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																					EdyyyD	4854
																					EdyyyD	4855
11. Aerosol Air Purifying Respirator Efficiency Research (Moyer 923-7335) (3.0/200.0/290.0) (100/VEd-Dyy-864) .1 Complete literature review, analysis and evaluation .2 Complete preparation of research protocol .3 Submit orders for all necessary equipment and supplies .4 Peer review research protocol completed .5 Complete first interim report of research findings .6 Submit feasibility study for replacing existing test methods with new methods in 30 CFR Part 11. (3Q83) .7 Finalize development of aerosol performance and efficiency model and test methods for incorporation into revised 30 CFR Part 11 (4Q83)	81	83							D	a	a										EdyyyD	4858
																					EdyyyD	4859
																					EdyyyD	4860
																					EdyyyD	4861
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																					EdyyyD	4871

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY				PLANNED COMPLETION				P M F		R E U		O C N		G H D		PY		RESOURCES	
	I C		1Q	2Q	3Q	4Q													NPF	TF
																			\$1000	\$1000
12. Respirator Sorbent Efficiency (Moyer'923-7335) (VLI-mbp-817)(3.0/350.0/440.0)(100/vEd-Dyy-817	81	83							D	b	a									
.1 Establish in-house laboratory testing capability contingent upon OD, NIOSH approval				o															EdyyyD	4874
.2 Prepare finalized, detailed research protocol for conduct of the project phases I and II (2 milestones indicated)					o			o											EdyyyD	4875
.3 Establish research protocol accomplishment schedule for phases I and II					o			o											EdyyyD	4876
.4 Complete final RFC and submit to Contracts Office for FY83 funding								o											EdyyyD	4877
.5 Complete draft report of findings for FY82 experimental studies, submit to OD, DSR for review								o											EdyyyD	4878
.6 Award contract (3Q83)																			EdyyyD	4879
.7 Incorporate comments and prepare final report of findings for first year (FY82) of research project (1Q83)																			EdyyyD	4880
.8 Submit for review report of findings for publication (2Q83)																			EdyyyD	4881
																			EdyyyD	4882
																			EdyyyD	4883
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																			EdyyyD	4888
																			EdyyyD	4889
																			EdyyyD	4890
																			EdyyyD	4891
13. Inhalation Toxicity Testing of DEHS and Corn Oil (May 443-1650) (VLI-mpb 852)(100/VEd-Dyy-865)	81	82							D	b	a								EdyyyD	4894
.1 Project start (3Q81)																			EdyyyD	4895
.2 Initiate acute phase of study (4Q81)																			EdyyyD	4896
.3 Completion of acute phase of study						o													EdyyyD	4897
.4 Initiation of subchronic phase of study						o													EdyyyD	4898
.5 Completion of subchronic phase of study (3Q83)																			EdyyyD	4899
.6 Final report submitted to NIOSH (3Q83)																			EdyyyD	4900
																			EdyyyD	4901
																			EdyyyD	4902
																			EdyyyD	4903

CONTROL SYSTEMS

The implementation of an effective hazard-prevention program in the workplace requires the development of data in many areas. The control technology program within NIOSH is attempting to document and develop effective control systems through state-of-the-art assessments and laboratory research. The production and utilization of hazardous chemicals in industry require that industry utilize techniques that control worker exposure while continuing to allow the chemicals to be used in their processes. Our goal is to seek out and document the controls' effectiveness from a total systems point of view. All aspects of the system are assessed including engineering, monitoring, work practices, and personal protective equipment.

The demonstrated effectiveness in one plant can then be used by other industries that have similar processes. An active dissemination and education program is essential to reach those professionals in training and practicing who will design and influence the purchasing of future production systems.

Division of Physical Sciences and Engineering

The DPSE program is comprised of control technology assessments and control technology research and development.

1. The development of the Control Technology Assessment concept has evolved to a point where an expanded approach involving other disciplines should be utilized to make the studies more comprehensive. Although only the "best" technology has been previously studied, "good" technology would also be documented because of the current state of the U.S. economy. These "expanded" CTAs would simultaneously establish a range of solutions with a range of costs. There are two extreme options for conducting these studies:
 - o DPSE would take the lead in a NIOSH effort, working with DSHEFS and DRDS industrial hygienists operating from their own divisions. This would enable more measurements to be made and simultaneously establish worker exposures as well as a range of solutions. There is some precedent for this now in DPSE's joint effort with DSHEFS (in manufacturing of birth control pills, biotechnology, and electronics), and DRDS (coal liquefaction and gasification).
 - o At the other extreme, more resources would be provided directly to the DPSE budget, and the expanded CTAs would be completely a DPSE effort.

2. There also is a need for more documentation in other areas relating to worker protection:
 - o DPSE has begun a pilot effort with DBBS to include work practices in the inhouse DPSE CTA of plating and cleaning processes.
 - o Joint efforts with DSR also should be explored and implemented.
3. An expanding interaction must occur with the academic community which is educating the future engineers, designers, and managers of production systems. DPSE has:
 - o With DTMD, started some effort in this area with the Johns Hopkins Educational Resource Center which has developed a 1-week course for practicing engineers on industrial hygiene engineering control technology.
 - o Need for additional materials that impact on the regular academic curricula.

In DPSE there are essentially two synergistic aspects of the area of control technology research and development:

1. Monitoring--What needs to be done now is to expand monitoring of strategy techniques and evaluate contemporary instruments. Portable analytic instruments that can make in situ determinations of pollutants will be a powerful aid in field studies related to chemical dumps, toxic wastes, petrochemical industries, etc.
2. Control--Projects will be of limited scope so that they can be completed in a short time frame, utilizing technicians and co-ops to carry out the research planned by senior staff, based upon input from CTAs, HHES, OSHA, labor, and industry. The ultimate goal is to provide the impetus which will result in incorporation of control techniques into a new process design, process machinery, and plant construction. There will be an effort to establish demonstration projects on a small scale to show both technical and financial feasibility, working with small businesses and State industrial groups.

Division of Biomedical and Behavioral Sciences

DBBS activities in control technology include: (1) toxicology studies related to the substitution of less hazardous substances for those commonly or historically used for certain operations or work

practices, and (2) evaluation of ergonomic and human factors observed during control technology assessments. With regard to the latter activity, the best engineering control system may be ineffective in protecting the worker if it is not designed for optimum use by the worker or if the worker has not been properly informed about the use of the system.

In FY 1981 studies continued on the toxicologic assessment of coal and copper slags that are used in brasive blasting operations to replace silica sand. Also during FY 1981 three control technology assessment site visits involving electroplating operations were performed jointly with DPSE. The intent is to identify work practices and human factors considerations found to be successful in reducing workers' exposure to workplace hazards.

Division of Safety Research

The DSR program includes several projects that are aimed at identifying or evaluating methods for controlling the risks of recognized hazards. The program addresses the hazards faced by construction workers engaged in building construction, and machinists engaged in the operation of press brakes and mechanical power presses.

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY				P M F				RESOURCES	
	PLANNED COMPLETION				R E U				NPF	TF
	I	C	1Q	2Q	3Q	4Q	G	H		
*****CONTROL SYSTEMS*****										
										E 4907
										E 4908
DIVISION OF BIOMEDICAL AND BEHAVIORAL SCIENCE										A E 4909
										A E 4910
1. Psychology in Health Risk Communication (A. Cohen, 684-8291)	80	84					E	c	a	AayyyE 4912
(VOB-nAb-268)(0.6/130.0/160.0)(.3/10/18)(100/VOB-Eyy-268)										AayyyE 4913
										AayyyE 4914
.1 Consult Information Office (1Q80)										AayyyE 4915
.2 Initiate literature review (1Q80)										AayyyE 4916
.3 Complete literature review (3Q80)										AayyyE 4917
.4 Formulate approaches for hazard communications (4Q81)										AayyyE 4918
.5 Submit progress report to Director, DBBS			o	o	o	o				AayyyE 4919
.6 Develop RFC for testing approaches			o							AayyyE 4920
.7 Hold peer review			o							AayyyE 4921
.8 Submit RFC to Director, DBBS				o						AayyyE 4922
.9 Submit RFC to OAMS				o	o					AayyyE 4923
.10 Award contract					o					AayyyE 4924
.11 Obtain HSRB clearance						o				AayyyE 4925
.12 Submit OMB package for clearance						o				AayyyE 4926
.13 Receive OMB clearance (2Q83)										AayyyE 4927
.14 Complete observations of effectiveness of health risk communications (4Q83) (2Q84)										AayyyE 4928
.15 Receive draft final contract report (2Q84)										AayyyE 4929
.16 Submit final report to Director, DBBS (4Q84)										AayyyE 4930
.17 Submit abstract to Director, NIOSH (4Q84)										AayyyE 4931
										AayyyE 4932
										AayyyE 4933

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY				PLANNED COMPLETION				P M F		PY	RESOURCES	
	I		C		1Q	2Q	3Q	4Q	R	E		NPF	TF
									O	C		\$1000	\$1000
2. Fibrogenicity of Mineral Substitutes (L. Stettler, 684-8337) (VOT/gDg-383)(0.1/0.5/7.0)(100/VOT-Egm-383)	80	83							E	c	a		
.1 Hazard data sheet (H.D.S.):												AdgmyE	4936
a. Develop H.D.S. (1Q80)												AdgmyE	4937
b. Submit H.D.S. to Director, DBBS (1Q80)												AdgmyE	4938
c. Submit H.D.S. to all project staff (1Q80)												AdgmyE	4939
.2 Consult Information Office (1Q80)												AdgmyE	4940
.3 Submit progress reports to Director, DBBS					o	o	o	o				AdgmyE	4941
.4 Initiate pilot study to determine maximum tolerated dose (MTD). (2Q80)												AdgmyE	4942
.5 Complete MTD study (3Q80)												AdgmyE	4943
.6 Initiate fibrogenicity study (3Q80)												AdgmyE	4944
.7 Perform 6-month serial sacrifice (2Q81)												AdgmyE	4945
.8 Perform 12-month serial sacrifice (4Q81)												AdgmyE	4946
.9 Complete 18-month serial sacrifice						o						AdgmyE	4947
.10 Complete 24-month serial sacrifice								o				AdgmyE	4948
.11 Complete histologic and pathology report (2Q83)												AdgmyE	4949
.12 Submit final project report to Director, DBBS (4Q83)												AdgmyE	4950
.13 Submit abstract to Director, NIOSH (4Q83)												AdgmyE	4951
.14 Submit project records to Q. A. Unit, DBBS (4Q83)												AdgmyE	4952
												AdgmyE	4953
DIVISION OF PHYSICAL SCIENCES AND ENGINEERING												B	E
												B	E
3. Removal of Contaminating Liquids from Surfaces (1004)-- 12/31/81--\$118,102--R. Hughes--Control												B	E
7/31/84 \$55,288--G. Breur												B	E
												B	E
												B	E
4. Control Technology Assessment of Chemical Process Batch Unit Operations (H. Van Wageningen 684-4347) (VQC-gty-406) (1.5/5.7/44.0)(100/VQC-Ehi-406)	80	83							E	a	a	BahiyE	4966
.1 Award contract (4Q81) #210-80-0071												BahiyE	4967
.2 Complete preliminary surveys (6 completed 4Q81)												BahiyE	4968
.3 Complete preliminary survey reports												BahiyE	4969
.4 Complete in-depth survey reports (1Q83)								o				BahiyE	4970
.5 Complete final report (4Q83)												BahiyE	4971
												BahiyE	4972
												BahiyE	4973
												BahiyE	4974
												BahiyE	4975

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY				P M F				RESOURCES	
	PLANNED COMPLETION				R E U				NPF	TF
	I	C	1Q	2Q	3Q	4Q	G	H		
							D		PY	\$1000 \$1000
5. Control Technology Assessment of Petroleum Refinery Operations (P. Froehlich 684-4347)(VQC-gty-406)(0.2/5/11)(100/VQC-Ehi-475)	81	83					E	a	a	BahiyE 4978
.1 Award contract (2Q81) #210-81-7102										BahiyE 4979
.2 Complete preliminary surveys (4 completed 4Q81)			o							BahiyE 4980
.3 Complete preliminary survey reports				o						BahiyE 4981
.4 Complete in-depth survey reports					o					BahiyE 4982
54 Complete final report (1Q83)						o				BahiyE 4983
										BahiyE 4984
										BahiyE 4985
										BahiyE 4986
6. Engineering Assessment of Seals and Fittings (H. Van Wagenen - 684-4347)(0.5/20/35)(0.5/25/40)(100/VQC-Ehf-472)	82	84					E	a	a	BahfyE 4989
.1 Finalize RFC and identify firm(s) for cooperative research					o					BahfyE 4990
.2 Award contract						o				BahfyE 4991
.3 Receive final report (2Q84)										BahfyE 4992
										BahfyE 4993
										BahfyE 4994
										BahfyE 4995
7. Control Technology Assessment of Routine Hazardous Waste Disposal Operations in Chemicals Manufacturing (M. Anastas - 684-4347)(VQC-gtt-417)(1.0/5/35)(100/VQC-Euh-417)	81	83					E	c	a	BauhyE 4998
.1 Complete preliminary survey reports				o						BauhyE 4999
.2 Complete in-depth survey reports					o					BauhyE 5000
.3 Complete final report (1Q83)										BauhyE 5001
										BauhyE 5002
										BauhyE 5003
										BauhyE 5004
										BauhyE 5005
8. Pilot Control Technology Assessment of Chemical Processing and Reclaiming Facilities (M. Crandall - 684-4347) (100/VQC-Euh-473)	82	82					E	c	a	BauhyE 5008
.1 Complete summary of literature			o							BauhyE 5009
.2 Complete survey reports					o					BauhyE 5010
.3 Submit recommendations for additional work					o					BauhyE 5011
										BauhyE 5012
										BauhyE 5013
										BauhyE 5014
										BauhyE 5015
9. Control Technology Assessment of Operations Employed in Oral Contraceptive Tablet Making Processes (M. Anastas - 684-4347) (VQC-gky-415)(100/VQC-Eyy-415)	81	82					E	c	a	BayyyE 5018
.1 Complete in-depth surveys				o						BayyyE 5019
.2 Complete in-depth survey reports					o					BayyyE 5020
.3 Complete final report						o				BayyyE 5021
										BayyyE 5022
										BayyyE 5023
										BayyyE 5024
										BayyyE 5025

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY				PLANNED COMPLETION				P M F R E U O C N			RESOURCES	
	I C		1Q	2Q	3Q	4Q	G H D	PY	NPF TF			\$1000	\$1000
10. Control Technology Assessment - Plating and Cleaning (J. Sheehy - 684-4295)(VQC-gth-445)(100/VQC-Eyy-445)	80	82					E c a					BayyyE	5028
												BayyyE	5029
												BayyyE	5030
.1 Complete in-depth plant surveys				o								BayyyE	5031
.2 Complete final plant survey reports					o							BayyyE	5032
.3 Complete final report						o						BayyyE	5033
												BayyyE	5034
11. Control of Styrene Vapors in Fiberglass Boat Building (W. Todd - 684-4224)(VQC-ggy-414)(1.0/5/35)(100/VQC-Ehy-414)	81	83					E c a					BahyyE	5037
												BahyyE	5038
												BahyyE	5039
.1 Complete preliminary survey reports					o							BahyyE	5040
.2 Complete in-depth surveys						o						BahyyE	5041
.3 Complete report on plant surveys (1Q83)												BahyyE	5042
												BahyyE	5043
12. Adhesive Bonding Control Technology Assessment (V. Mortimer - 684-4224)(VQC-ggy-414)(2.0/25/85)(100/VQC-Ehy-476)	81	83					E c a					BahyyE	5046
												BahyyE	5047
												BahyyE	5048
.1 Complete preliminary survey reports					o							BahyyE	5049
.2 Complete in-depth surveys						o						BahyyE	5050
.3 Complete in-depth survey reports (1Q83)												BahyyE	5051
.4 Complete final report (2Q83)												BahyyE	5052
												BahyyE	5053
13. Mercury Control Technology Assessment (A. Amendola - 684-4347) (VQC-gyy-405)(100/VQC-Eyy-405)	80	82					E a a					BayyhE	5056
												BayyhE	5057
												BayyhE	5058
.1 Award contract (1Q81) #210-81-7107												BayyhE	5059
.2 Complete preliminary surveys				o								BayyhE	5060
.3 Complete in-depth surveys						o						BayyhE	5061
.4 Complete final report						o						BayyhE	5062
												BayyhE	5063
14. Control Technology Assessment of the Ceramic (Clay) Products Industry (R. Mahon - 684-4295)(1.0/15/50)(100/VQC-Eny-477)	82	83					E c a					BanykE	5066
												BanykE	5067
												BanykE	5068
.1 Submit final study plan				o								BanykE	5069
.2 Complete preliminary site surveys						o						BanykE	5070
.3 Complete recommended surveys (2Q83)												BanykE	5071
.4 Complete final report (4Q83)												BanykE	5072
												BanykE	5073
15. Control Technology Assessment Mining and Minerals Industry Processes (Lead Ore Benefication) (F. Godbey - 684-4442) (VQC-gmu-412)(100/VQC-Eyy-412)	81	82					E c d					BapgrE	5076
												BapgrE	5077
												BapgrE	5078
												BapgrE	5079
.1 Complete preliminary survey reports				o								BapgrE	5080
.2 Complete in-depth survey reports						o						BapgrE	5081
.3 Complete final report						o						BapgrE	5082
												BapgrE	5083

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY				P M F				RESOURCES			
	PLANNED COMPLETION				R E U				NPF TF			
	I	C	1Q	2Q	3Q	4Q	G	H	D	PY	\$1000	\$1000
16. Assessment of Effective Controls - Bagging Operations (T. Cooper - 684-4442)(VQC-gtu-408)(0.3/5/15)(100/VQC-Eyy-408)	81	83					E	c	a		BayyeE	5086
.1 Complete preliminary survey reports				o							BayyeE	5087
.2 Complete in-depth survey reports (1Q83)											BayyeE	5088
.3 Complete final report (1Q83)											BayyeE	5089
											BayyeE	5090
											BayyeE	5091
											BayyeE	5092
17. Control Technology Assessment - Sampling Solids and Slurries (C. Wang - 684-4442)(VQC-gtt-417)((0.2/5/11)100/VQC-Eyy-478)	80	83					E	c	a		BayyeE	5095
.1 Complete preliminary study plan			o								BayyeE	5096
.2 Complete preliminary survey reports					o						BayyeE	5097
.3 Complete in-depth survey reports (1Q83)											BayyeE	5098
.4 Complete final report (1Q83)											BayyeE	5099
											BayyeE	5100
											BayyeE	5101
											BayyeE	5102
18. Control Technology Assessment - Solid Materials Conveying (M. Klein - 684-4295)(2.1/25/90)(100/VQC-Eyn-479)	82	83					E	c	a		BaynyE	5105
.1 Complete study plan			o								BaynyE	5106
.2 Complete preliminary survey reports						o					BaynyE	5107
.3 Complete in-depth survey reports (2Q83)											BaynyE	5108
.4 Complete final report (3Q83)											BaynyE	5109
											BaynyE	5110
											BaynyE	5111
19. EPA IA on Indoor Air (Electronics/Formaldehyde) (J. Gideon - 684-4221)(VQC-gyy-413)(2.0/25/100)(100/VQC-Ehy-413)	80	83					E	d	a		BahyyE	5112
.1 Electronics Components Industry											BahyyE	5115
a. Complete preliminary survey reports				o							BahyyE	5116
b. Complete in-depth survey reports (1Q83)											BahyyE	5117
.2 Formaldehyde Manufacturing Industry											BahyyE	5118
a. Complete preliminary survey reports				o							BahyyE	5119
b. Complete in-depth survey reports						o					BahyyE	5120
c. Complete final report (1Q83)											BahyyE	5121
											BahyyE	5122
											BahyyE	5123
											BahyyE	5124
											BahyyE	5125
20. Applied Control Technology Studies (P. Caplan - 684-4442) (VQC-ghg-403)(5.4/15/170)(100/VQC-Ehy-403)	80	C					E	c	a		BahyyE	5128
.1 Participate in hazard control technology aspects of HME and IWS studies			2	4	6	8					BahyyE	5129
.2 Provide written consultation to DCSD on control technology related to Criteria Documents or Hazard Reviews			1	2	3	4					BahyyE	5130
.3 Work with DTMD on professional engineering education programs											BahyyE	5131
a. Conduct site visits to appropriate universities				1	3						BahyyE	5132
.4 Develop priority areas for FY83 programs			o								BahyyE	5133
											BahyyE	5134
											BahyyE	5135
											BahyyE	5136
											BahyyE	5137
											BahyyE	5138
											BahyyE	5139

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY		PLANNED COMPLETION				P M F		R E U		O C N		RESOURCES			
	I	C	1Q	2Q	3Q	4Q	G	H	D	PY	\$1000	\$1000				
21. Control Technology Analytical Support (G. Choudhary 684-4217) (VQK-uxx-427)(2.4/25/101)(100/VQK-Ehy-427)	82	C							E	b	a			BbhyyE	5142	
														BbhyyE	5143	
														BbhyyE	5144	
.1 Provide analytical support for CTA of														BbhyyE	5145	
a. Plating and cleaning processes			100	250	400									BbhyyE	5146	
b. Styrene and Glass Fiber Boat Building			50	100	300									BbhyyE	5147	
c. Hazardous waste projects				60	150									BbhyyE	5148	
d. Adhesive Bonding			155	380	630	700								BbhyyE	5149	
e. Process Sampling Study			75	225	300									BbhyyE	5150	
f. Solid Materials Handling			100	200	300	400								BbhyyE	5151	
g. Lead Beneficiation			50	150	300									BbhyyE	5152	
														BbhyyE	5153	
22. Deactivation of Hazardous Chemical Waste in the Work Place (S. Tucker, 684-4258)(3.0/40/130)(100/VQU-Euh-487)	82	83							E	c	a			BcuhyE	5156	
														BcuhyE	5157	
.1 Study of procedures for deactivation and disposal of chemical waste solutions produced in DPSE laboratories														BcuhyE	5158	
a. Present experimental protocol for study of proposed procedures														BcuhyE	5159	
b. Complete laboratory experiments														BcuhyE	5160	
c. Submit report to Director, DPSE														BcuhyE	5161	
.2 Study of procedures for deactivating excess stock chemicals in DPSE laboratories														BcuhyE	5162	
a. Complete laboratory experiments														BcuhyE	5163	
b. Submit report to Director, DPSE (1Q83)														BcuhyE	5164	
.3 Validate three IARC methods (4Q83)														BcuhyE	5165	
														BcuhyE	5166	
														BcuhyE	5167	
														BcuhyE	5168	
														BcuhyE	5169	
														BcuhyE	5170	
23. Scrap Lead Reprocessing Demonstration (R. Hughes 684-4266) (VQC-geM-409)(0.3/5/18)(100/VQX-Epp-409)	81	83							E	a	a			BdpqrE	5173	
														BdpqrE	5174	
.1 Award contract 4Q81														BdpqrE	5175	
.2 Complete demonstration of four controls														BdpqrE	5176	
.3 Complete demonstration of ten controls (3Q83)														BdpqrE	5177	
.4 Transmit abstract of final report to Director, NIOSH (4Q83)														BdpqrE	5178	
														BdpqrE	5179	
														BdpqrE	5180	
24. Particulate Control Research (K. Crouch 684-4255) (3.1/35/130)(100/VQX-Eyy-496)	82	83							E	c	a			BdyyyE	5183	
														BdyyyE	5184	
.1 Development of Criteria for Control of Grinding Operations														BdyyyE	5185	
a. Develop control for brass stand grinding emissions														BdyyyE	5186	
b. Develop recommendations for control of particulates generated during hand grinding of castings (2Q83)														BdyyyE	5187	
c. Submit final report to Director, DPSE (4Q83)														BdyyyE	5188	
.2 Submit protocol for wood dust control														BdyyyE	5189	
														BdyyyE	5190	
														BdyyyE	5191	
														BdyyyE	5192	

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY				PLANNED COMPLETION				P M F			RESOURCES	
	I C		1Q	2Q	3Q	4Q	O C N	G H D	PY	NPF	TF	\$1000	\$1000
	I	C											
25. Emerging Technologies - Lasers (K. Crouch 684-4255) (100/VQX-Eyy-500)	82	82					E c a					BdyypE	5195
												BdyypE	5196
												BdyypE	5197
.1 Submit PCM for FY'83 laser research program												BdyypE	5198
												BdyypE	5199
26. Push-Pull Ventilation Techniques (D. Huebener 684-4291) (100/VQX-Eyy-502)	82	82					E c a					BdhyyE	5202
												BdhyyE	5203
												BdhyyE	5204
.1 Complete SPRG review for plating tank study												BdhyyE	5205
.2 Complete criteria development for single-side draft hood												BdhyyE	5206
.3 Complete criteria development for double-side slot hood												BdhyyE	5207
.4 Submit PCM for FY83 and beyond research												BdhyyE	5208
												BdhyyE	5209
DIVISION OF RESPIRATORY DISEASE STUDIES													
												C E	5211
												C E	5212
27. Emission Characterization of Energy Processes (Koshut R 304 599-7361)(0.3/81.0/90.0)(0.3/96.9/107.4) (100/VCb-Eiy-154)	82	84					E g b					CbiyhE	5214
												CbiyhE	5215
												CbiyhE	5216
												CbiyhE	5217
.1 Modify DOE Interagency Agreement for broader source characterization studies												CbiyhE	5218
.2 Develop protocol for component fugitive emission measurements in cooperation with DOE												CbiyhE	5219
												CbiyhE	5220
.3 Complete review of all available process stream contaminant composition data												CbiyhE	5221
.4 Complete NIOSH sponsored component emission measurements (4Q83)												CbiyhE	5222
												CbiyhE	5223
.7 Submit final report and abstract to Director, NIOSH, with copy of report and abstract to DTS (4Q83)												CbiyhE	5224
												CbiyhE	5225
												CbiyhE	5226
												CbiyhE	5227
												CbiyhE	5228

OTHER PERSONAL PROTECTIVE EQUIPMENT

There are a number of multifaceted approaches to injury prevention in the workplace. Included among the varied approaches are workplace design, engineering controls, behavior modification, training, and personal protective equipment. It has often been cited that, with the increasingly tightening economic conditions, the use of PPE as an alternative to more expensive engineering controls will be an option exercised by more and more employers. PPE used commonly in workplaces include respirators, head protection (hard hats), eye protection (safety glasses), face protection (face shields), foot protection (safety shoes), hand protection (protective gloves), motion restraints (safety belts), and protective clothing in various combinations. But a question remains as to how effective such devices are in providing protection. Oftentimes the worker is provided PPE which may not be designed to meet the needs of his particular exposure situation. The choice of an appropriate protective device is a complex consideration that must incorporate a multitude of factors. Factors that are of prime concern to one occupation may be of secondary concern to another occupation. Consequently, the individual choosing PPE should be fully aware of the challenges of the work environment if effective protection is to be provided.

A series of reports on the effectiveness of eye, head, and face protection was compiled by BLS. The data which described the use of PPE by workers involved in industrial accidents were part of the Work Injury Report program. The worker received a confidential survey questionnaire which requested information concerning what he was doing at the time of the accident, what PPE he was wearing, a description of the injury, and the reason he was not wearing PPE. Failure to wear eye protection equipment was attributed to the perception by the workers that the equipment was neither practical nor necessary for their type of work while others reported that such equipment was not available for their use. Similarly, of the 774 face injuries surveyed, only nine workers were wearing face shields at the time of their accidents. Of the 1,033 head injuries surveyed, 80 percent of the injured workers were not wearing head protection.

It is evident, therefore, that not only must the design of the personal protective device be engineered to provide effective protection correlated with human injury-tolerance data, but it also must be designed in such a fashion as to be acceptable to the wearer of the device in his normal work environment. The lack of such acceptability and availability can be viewed as a major contributing factor in job injuries.

Division of Safety Research

Activities within DSR have included work to establish test criteria and procedures designed to evaluate the performance of PPE. Such test criteria were designed to ensure that certain critical parameters characterizing the device perform in a reliable manner to provide the wearer with the protection needed. Tests were conducted on a number of protective devices on the market, including firefighters' helmets, miners' safety caps, linemen's rubber insulating gloves, women's safety-toe footwear, and flexible-fitting goggles. These tests, based on the American National Standards Institute's standards, also addressed possible improvements in test systems and were published as technical reports. However, due to resource constraints within the Division, the major emphasis of the PPE program has been redirected toward respirator research and testing and certification.

In response to the national concern regarding the exposure of workers in chemical waste dump cleanup operations, the Division has proposed a program designed to evaluate chemical protective clothing. With initial emphasis on glove material, the program would establish a standard permeation test designed to evaluate the permeability of various protective clothing materials by various hazardous chemicals. Such a permeability test could then subsequently be combined with appropriate physical test methods such as abrasion, stretching, etc. to determine the relative reliability of the protective clothing material to withstand the rigors and environments of actual use and still afford protection to the wearer.

Division of Biomedical and Behavioral Sciences

DBBS research on cutaneous effects, vibration, bioacoustics, and cold stress includes evaluation of PPE. Studies planned for FY 1982 include:

1. Research in percutaneous absorption, which is expected to facilitate early identification of cutaneous hazards and to provide support for control technologies and protective clothing.
2. Evaluation of the protection from Raynaud's disease (white-finger disease) afforded by different glove materials.
3. Evaluation of effectiveness of different types of hearing protectors, and completion of the validation of a new, inexpensive method with workplace applicability for measuring the effectiveness of hearing protection equipment.
4. Evaluation of the protective value of different clothing ensembles for workers subjected to cold stress.

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	P M F R E U O C N				RESOURCES			
	FY				NPF TF			
	I	C	1Q	2Q	3Q	4Q	G H D	PY \$1000 \$1000
*****OTHER PERSONAL PROTECTIVE EQUIPMENT*****								
								G 5232
								G 5233
DIVISION OF BIOMEDICAL AND BEHAVIORAL SCIENCE								A G 5234
								A G 5235
1. Evaluation of Earplug Effectiveness (R. Tubbs, 684-8281)	82	83					G c a	AefyyG 5237
(1.6/25.5/65.5)(100/VOG-Gfy-367)								AefyyG 5238
								AefyyG 5239
.1 Protocol Development and Approval								AefyyG 5240
a. Complete draft project protocol								AefyyG 5241
b. Converse peer review panel								AefyyG 5242
c. Complete final project protocol								AefyyG 5243
d. Receive SPRG approval								AefyyG 5244
e. Receive HSRB approval								AefyyG 5245
f. Monthly progress report, Director, DBBS								AefyyG 5246
.2 Subject Testing								AefyyG 5247
a. Install and inspect test equipment								AefyyG 5248
b. Locate appropriate test subjects								AefyyG 5249
c. Begin subject testing								AefyyG 5250
d. Complete subject testing (1Q83)								AefyyG 5251
.3 Data Reduction and Analysis								AefyyG 5252
a. Code and verify data for computer (2Q83)								AefyyG 5253
b. Complete statistical analysis (2Q83)								AefyyG 5254
.4 Submit publication plan (3Q83)								AefyyG 5255
.5 Submit draft for approval (3Q83)								AefyyG 5256
.6 Submit final report to Director, DBBS (4Q83)								AefyyG 5257
.7 Submit abstract to Director, DBBS (4Q83)								AefyyG 5258
.8 Submit project records to Q. A. Unit, DBBS (4Q83)								AefyyG 5259
								AefyyG 5260

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY				PLANNED COMPLETION				P M F			RESOURCES	
	I C		1Q	2Q	3Q	4Q	G H D	PY	NPF	TF	\$1000	\$1000	
2 Insert-Type Hearing Protectors Study (B. Lempert, 684-8281) (100/VOG-Gff-365)	81	82					G b a				AefffG	5263	
											AefffG	5264	
											AefffG	5265	
.1 Contract 210-81-0031											AefffG	5266	
a. Complete peer review (DSR)(1Q81)											AefffG	5267	
b. Submit RFC to DAMS (1Q81)											AefffG	5268	
c. Obtain HSRB approval (2Q81)											AefffG	5269	
d. Award contract (210-81-3001)(2Q81)											AefffG	5270	
e. Initiate field testing (2Q81)											AefffG	5271	
f. Complete field testing											AefffG	5272	
g. Submit final report to Director, DBBS and DSR											AefffG	5273	
h. Submit abstract to Director, NIOSH											AefffG	5274	
.2 Prepare composite report											AefffG	5275	
.3 Submit composite report to Director, DBBS											AefffG	5276	
.4 Prepare training module with DTMD											AefffG	5277	
.5 Submit progress report to Director, DBBS											AefffG	5278	
.6 Submit final project report to Director, DBBS											AefffG	5279	
.7 Submit abstract to Director, NIOSH											AefffG	5280	
.8 Submit project records to Q.A. Unit, DBBS											AefffG	5281	
											AefffG	5282	
DIVISION OF SAFETY RESEARCH											E G	5284	
											E G	5285	
3. Attenuation Characteristics of Hearing Protectors (895)-- 4/30/83--\$29,430--D. Knowles											E G	5286	
											E G	5287	
											E G	5288	
4. Protective Clothing Against Chemicals	81	C					G g a				EdhNyG	5290	
Evaluation Procedures											EdhNyG	5291	
(VLI-mbN-858)(5.0/300.0/450.0)(100/VEd-GhN-858)											EdhNyG	5292	
.1 LANL FY81 Interagency Agreement											EdhNyG	5293	
a. Submit IA to OD (2FY81)											EdhNyG	5294	
b. Award of IA by OPPE (3Q81)											EdhNyG	5295	
c. Review LANL's quarterly progress reports											EdhNyG	5296	
d. Submit summary report on performance of CPC against PCB2 OD											EdhNyG	5297	
e. Receive and review final report from LANL (1Q83)											EdhNyG	5298	
f. Submit abstract to O/D (1Q83)											EdhNyG	5299	
g. Submit final report to DTS (1Q83)											EdhNyG	5300	
.2 Participate in ASTM F23 committee round robin validation testing of proposed standard product evaluation methods											EdhNyG	5301	
.3 Answer inquiries from public and regional representatives concerning CPC											EdhNyG	5302	
a. Respond to 90% within 2 working days											EdhNyG	5303	
b. Respond to 100% within 10 working days											EdhNyG	5304	
											EdhNyG	5305	
											EdhNyG	5306	
											EdhNyG	5307	
											EdhNyG	5308	

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY		PLANNED COMPLETION				P M F R E U O C N		RESOURCES			
	I	C	1Q	2Q	3Q	4Q	G	H	D	PY	NPF	TF
											\$1000	\$1000
5. Protective Equipment Research (D. Knowles 923-7335) (4.1/250.0/370.0) (100/VEd-Gyy-818)	82	83					G	a	a			
.1 Complete procurement and installation of personal protective equipment laboratory test equipment						o					EdyyyG	5311
.2 Complete progress report on contracts and grants activities			o	o	o	o					EdyyyG	5312
.3 Complete background research for preparation of a NIOSH PPE research paper			o								EdyyyG	5313
.4 Prepare final report of recommendations for PPE research needs					o						EdyyyG	5314
.5 Complete data acquisition system setup, computer interface and computer programming for PPE equipment research test systems						o					EdyyyG	5315
.6 Complete proposed PPE research project protocols					o						EdyyyG	5316
.7 Complete proposed PPE research project plans						o					EdyyyG	5317
											EdyyyG	5318
											EdyyyG	5319
											EdyyyG	5320
											EdyyyG	5321
											EdyyyG	5322
											EdyyyG	5323
											EdyyyG	5324
											EdyyyG	5325
											EdyyyG	5326

SAMPLING/ANALYSIS

This program provides sampling consultation and analytical support to field research activities within NIOSH. Information is provided for the data base used by industrial hygienists and engineers to make decisions on hazard potential of workplace exposure, the association of exposure with disease, and the effectiveness of engineering control systems.

Division of Biomedical and Behavioral Sciences

DBBS provides clinical laboratory analyses to support field studies and all the DBBS inhouse research programs. This activity involves the analysis of blood, urine, and breath samples for the purpose of characterizing and quantitating chemical exposures of persons or laboratory animals examined in field or laboratory studies.

Division of Physical Sciences and Engineering

DPSE's general direction of the analytical chemistry research and support effort should remain the same. However, the following change is suggested: All NIOSH calibration and maintenance activities should be consolidated with DPSE for better staff utilization and better inventory and maintenance control. A management system should be established which will enable better quality control of field instruments, reduce spare-parts inventory by standardizing equipment, and allow periodic recall of equipment to ensure that it is in proper working order. While this is being done, the determination to contract maintenance and calibration should be delayed until DSHEFS moves to Ridge.

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY				PLANNED COMPLETION				P M F R E U O C N			RESOURCES	
	I C		1Q	2Q	3Q	4Q	G H D	PY	NPF TF			\$1900	\$1000
*****SAMPLING/ANALYSIS*****												N	5330
												N	5331
DIVISION OF PHYSICAL SCIENCES AND ENGINEERING												B	N 5332
												B	N 5333
1. Cancer Research Analytical Support (B. Belinky 684-4220) (VQK-ubc-423)(2.0/50/110)(100/VQK-Nhy-423)	82	C					N b a					BbhyyN	5335
												BbhyyN	5336
												BbhyyN	5337
.1 Provide analyses in support of Institute Cancer Program (DSHEFS)			1.1k	2.3k	3.4k	4.2k						BbhyyN	5338
												BbhyyN	5339
.2 Perform complete chemical characterization of acid treated coal dusts (DRDS Mutagenicity Studies for Stomach Carcinogenesis)					2	4						BbhyyN	5340
												BbhyyN	5341
.3 Provide an average turnaround time of 35 working days for samples from cancer research			35	35	35	35						BbhyyN	5342
												BbhyyN	5343
												BbhyyN	5344
												BbhyyN	5345
2. Feasibility Study of a Mobile Analytical Laboratory for Field Support (G. Choudhary 684-4215) (100/VQK-Nuh-482)	82	82					N a a					BbhyyN	5346
												BbhyyN	5347
.1 Procure mobile laboratory contract												BbhyyN	5348
a. Submit RFC to OAMS			o									BbhyyN	5349
b. Award Contract				o								BbhyyN	5350
.2 Accompany the contractor on four surveys					2	4						BbhyyN	5351
.3 Submit final report to Directors, DPSE, DSHEFS, DRDS							o					BbhyyN	5352
												BbhyyN	5353
												BbhyyN	5354
3. Priority Analytical Support (C. Geraci 684-4231) (0.5/300/320)(0.5/300/320)(100/VQK-Nhy-483)	82	84					N a a					BbhyyN	5355
												BbhyyN	5356
.1 Procure priority analytical support contract												BbhyyN	5357
a. Submit RFC to OAMS			o									BbhyyN	5358
b. Award Contract				o								BbhyyN	5359
.2 Conduct Award Fee meeting for priority analytical support contract						o						BbhyyN	5360
												BbhyyN	5361
												BbhyyN	5362
4. Applied Analytical Support Methodology and Investigations (J. Palassis 684-4220/C. Neumeister 684-4215)(VQK-iXX-424) (VQK-iXX-429)(4.0/100/214)(100/VQK-Nhn-424)(100/VQK-Nhy-428)	82	C					N c a					BbhyyN	5363
												BbhyyN	5364
.1 Characterize 20 common minerals			5	10	15	20						BbhyyN	5365
.2 Complete a minerals reference manual						o						BbhyyN	5366
.3 Analyze silica samples from collaborative test			24	48								BbhyyN	5367
.4 Develop method for four PNA's				4								BbhyyN	5368
.5 Develop unanticipated analytical methods			1			2						BbhyyN	5369
												BbhyyN	5370
												BbhyyN	5371
												BbhyyN	5372
												BbhyyN	5373
												BbhyyN	5374
												BbhyyN	5375
												BbhyyN	5376
												BbhyyN	5377
												BbhyyN	5378
												BbhyyN	5379
												BbhyyN	5380
												BbhyyN	5381

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY				PLANNED COMPLETION				P M F R E U O C N			RESOURCES	
	I	C	1Q	2Q	3Q	4Q	G	H	D	PY		NPF	TF
5. Mining Analytical Support - (M. Bolyard 684-4217) (VQK-upd-426)(3.3/125/250)(100/VQK-Nin-426)	82	C							N	b	a		
.1 Analyze samples from coal dust/diesel fuel inhalation study (DBBS)			120	200	320	400						BbinyN	5384
.2 Provide analytical support to DRDS			1.3k	2.8k	4.0k	5.2k						BbinyN	5385
.3 Provide analytical support to OECSP's Occupational Lung Disease project			12	24	36	50						BbinyN	5386
.4 Provide analytical support to DSR												BbinyN	5387
a. Air purifying respirators			400	800	1.2k	1.5k						BbinyN	5388
b. Quick response field investigations			50	125	175	250						BbinyN	5389
.5 Provide support to DSHEFS' Petroleum Refinery Turnaround			350			550						BbinyN	5390
.6 Procure Specialized Inorganic Measurement Contract												BbinyN	5391
a. Submit RFC to OAMS												BbinyN	5392
b. Award Contract (1Q83)												BbinyN	5393
6. Measurement Support Services - (D. Dollberg 684-4217) (VQK-uXX-422)(2.6/2000/2065)(2.6/2000/2065)(100/VQK-Nyy-422)	82	84							N	b	a		
.1 Coordinate analytical requests from Divisions/Offices and Regions			108	213	311	425						BbinyN	5394
.2 Maintain an average turnaround time of 10 working days for routine (contractor) samples			10	10	10	10						BbinyN	5395
.3 Maintain an average residence time of 35 days for routine (contractor) samples			35	35	35	35						BbinyN	5396
.4 Conduct award fee determination for Comprehensive Analytical Services Contract (210-81-711108)												BbinyN	5397
.5 Conduct weekly analytical support information exchange meetings with HETAB/IWSB/ECTB			10	20	30	40						BbinyN	5398
.6 Update DPSE Laboratory Management System (LMS). (Joint effort with MRB).												BbinyN	5399
a. Develop microfiche capability for archiving analytical reports (Data transfer from Wang--PCC)												BbinyN	5400
b. Interface Wang system with PCC for improved data transmission to LMS												BbinyN	5401
c. Develop data base for cost analysis of analytical services												BbinyN	5402
.7 Implement year 2 of CACS contract												BbinyN	5403
												BbinyN	5404
												BbinyN	5405
												BbinyN	5406
												BbinyN	5407
												BbinyN	5408
												BbinyN	5409
												BbinyN	5410
												BbinyN	5411
												BbinyN	5412
												BbinyN	5413
												BbinyN	5414
												BbinyN	5415
												BbinyN	5416
												BbinyN	5417
												BbinyN	5418
												BbinyN	5419
												BbinyN	5420
												BbinyN	5421
												BbinyN	5422
												BbinyN	5423
												BbinyN	5424
												BbinyN	5425

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY				P M F				RESOURCES	
	PLANNED COMPLETION				R E U				NPF TF	
	I	C	1Q	2Q	3Q	4Q	O	C	PY	\$1000 \$1000
7. Quality Assurance - Internal (D. Smith 684-4217) (VQK-uXX-420)(1.0/35/70)(100/VQK-Nhy-420)	82	C					N	c	a	BbhyyN 5428 BbhyyN 5429 BbhyyN 5430 BbhyyN 5431 BbhyyN 5432 BbhyyN 5433 BbhyyN 5434 BbhyyN 5435
.1 Analyze PAT samples			20	40	60	80				
.2 Monitor analytical proficiency by audit samples			32	64	96	128				
.3 Submit quarterly report to Director DPSE			o	o	o	o				
.4 Update AIHA accreditation					o					
8. Research Analytical-Chemical Support for the NIOSH-EPA Diesel Exhaust/Coal Dust Animal Exposure Studies (R. Glaser, 684-4259/R. Lunsford, 684-4258)(VQU-ipB-440) (VQU-ipB-442)(1.0/15/45)(100/VQU-Nmi-440)(100/VQU-Nmi-442)	80	83					N	c	a	BcmiYn 5438 BcmiYn 5439 BcmiYn 5440 BcmiYn 5441 BcmiYn 5442 BcmiYn 5443 BcmiYn 5444 BcmiYn 5445 BcmiYn 5446 BcmiYn 5447 BcmiYn 5448 BcmiYn 5449 BcmiYn 5450
.1 Analyze samples from exposure chambers			70	140	210	280				
.2 Submit report on characterization of vapor contaminants						o				
.3 Submit report on characterization of organic-extractable portion of diesel particulate						o				
.4 Complete monitoring of exposure chambers (1Q83)										
.5 Submit report on monitoring of exposure chambers to study director (2Q83)										
9. Comprehensive Laboratory Data Management (M. Abell, 684-4272)(100/VQU-Nyy-490)	82	82					N	c	a	BcyYyN 5453 BcyYyN 5454 BcyYyN 5455 BcyYyN 5456 BcyYyN 5457 BcyYyN 5458 BcyYyN 5459 BcyYyN 5460
.1 Requisition upgrade for data system			o							
.2 Complete software structure design				o						
.3 Complete training of chemists						o				
.4 Submit final report to Director, DPSE						o				
10. Characterization and Analysis of PNA's (G. Breuer 684-4430) (VQX-iBp-457)(100/VQX-Niy-457)	81	82					N	c	a	BdiymN 5463 BdiymN 5464 BdiymN 5465 BdiymN 5466 BdiymN 5467 BdiymN 5468 BdiymN 5469 BdiymN 5470
.1 Analyze PNA's from DBBS animal exposure study			24	60	84	108				
.2 Develop modal PNA sampler										
a. Complete vapor pressure measurements of fluoranthene				o						
b. Submit final report to Director, DPSE						o				

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY				COMPLETION				P M F		R E U		O C N		RESOURCES		
	I	C	1Q	2Q	3Q	4Q	G	H	D	PY	\$1000	\$1000	NPF	TF			
11. Quality Assurance (P. Schlecht 684-4266) (VQX-UNY-458)(3.3/300/474)(100/VQX-Xyy-458)	82	C								N	g	a				BdyyyN	5473
																BdyyyN	5474
																BdyyyN	5475
.1 Site visit Government Laboratories						2										BdyyyN	5476
.2 Position paper to Director, DPSE. Int'l co-operation for PAT and alternative funding options						o										BdyyyN	5477
.3 Provide PAT reference samples			10k	20k	30k	40k										BdyyyN	5478
.4 Evaluate 335 industrial hygiene laboratories			305	315	325	335										BdyyyN	5479
.5 Award PAT sample production contract				o												BdyyyN	5480
.6 Submit RFC to Director, DPSE for calendar year 1984						o										BdyyyN	5481
																BdyyyN	5482
																BdyyyN	5483
12. Maintenance and Calibration Laboratory (P. Schlecht 684-4266) (VQX-uth-459)(2.7/55/140)(100/VQX-Nyy-459)	81	C								N	c	a				BdyyyN	5486
																BdyyyN	5487
																BdyyyN	5488
.1 Industrial hygiene instruments repaired			150	300	450	550										BdyyyN	5489
.2 Industrial hygiene instruments calibrated			125	250	375	450										BdyyyN	5490
.3 Upgrade calibration systems to improve calibration accuracy and reliability																BdyyyN	5491
a. Gas systems			o													BdyyyN	5492
b. Sound systems				o												BdyyyN	5493
.4 Institute a periodic calibration/maintenance system for DPSE field equipment						o										BdyyyN	5494
.5 Build auto cycler/charger for Ni-Cd battery packs to improve reliability by reducing battery "memory"					o											BdyyyN	5495
																BdyyyN	5496
																BdyyyN	5497
																BdyyyN	5498
																BdyyyN	5499
DIVISION OF RESPIRATORY DISEASE STUDIES																C	N
																C	N
13. Implementation of Image Analysis of Chest X-Rays (Hankinson J 304-599-7755)(100/VCC-Nmm-218)	82	82								N	c	b				CcmmyN	5504
																CcmmyN	5505
.1 Complete final report on research study			o													CcmmyN	5506
.2 Complete optimization of system software				o												CcmmyN	5507
.3 Complete development of system implementation evaluation protocol					o											CcmmyN	5508
.4 Begin evaluation of system with sample of film received by NIOSH					o											CcmmyN	5509
.5 Complete report on evaluation of system using subset of films received by NIOSH					o											CcmmyN	5510
																CcmmyN	5511
																CcmmyN	5512
																CcmmyN	5513
																CcmmyN	5514
																CcmmyN	5515

INSTRUMENT/METHODS DEVELOPMENT

Monitoring of the workplace environment represents one of the fundamental principles in the conduct of a successful preventive health program in the workplace. Of the thousands of chemicals being used by industry only 25 percent have established sampling and analytical methods that are validated at the recognized safe occupational exposure level. Now technology continues to be used to develop new devices and techniques that need to be investigated and evaluated before they are introduced into the industrial hygiene community. This program conducts research to develop new sampling and analytical methods as well as direct reading instruments for use in measuring potential contaminants in the workplace. This research has no direct role in intervention, but results in a tool that can be used by others to initiate intervention.

Division of Biomedical and Behavioral Sciences

DBBS applies toxicokinetics to develop toxicologic methods for evaluating individual worker exposures. Biological monitoring methods are developed at the request of other NIOSH divisions in support of field research studies, as well as for DBBS research investigations. In FY 1981 methods were developed for a number of organic compounds, including aromatic amines, organic acids, and metabolites of styrene and MOCA in urine. Methods also have been developed for organic compounds such as pentachlorophenol in plasma or blood. Similar efforts will continue in FY 1982.

Instruments are developed as needed for measurement of the physiological effects of work conditions or for measuring the exposure condition itself. In FY 1981 instruments were designed and patented to measure the loss of fingertip sensitivity in workers with vibration disease.

Division of Physical Sciences and Engineering

DPSE develops and validates sampling and analytic methods in support of NIOSH field studies and in response to requests from other agencies. DPSE proposes to expand monitoring strategy techniques and evaluate contemporary instruments with NIOSH base funds. Portable analytical instruments that can make in situ determinations of pollutants will be a powerful aid in field studies related to chemical dumps, toxic wastes, petrochemical industries, etc.

Because of the ever-increasing recognition of the complexity of exposure and the need for more detailed data, the method-development aspects of our work must be emphasized. The advances in passive dosimetry and sophisticated electronic equipment require that we keep pace with the state of the art.

Division of Respiratory Disease Studies

Current techniques for measuring respiratory mechanics require considerable subject cooperation and effort and are insensitive to early changes, or require complex techniques and equipment and have large variability. DRDS will evaluate the technique of measuring pulmonary mechanics parameters using forced random noise oscillations for the potential use of this new technique in the investigation of occupational lung diseases, particularly in workers with industrial bronchitis. Potential advantages of this technique include the portability and simplicity of the equipment, the short duration of the test (about 20 seconds), and the requirement of less subject cooperation.

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY				P M F				RESOURCES				
	PLANNED COMPLETION				R E U				NPF TF				
	I	C	1Q	2Q	3Q	4Q	G	H	D	PY	\$1000	\$1000	
*****INSTRUMENT/METHODS DEVELOPMENT*****													U 5519
													U 5520
DIVISION OF BIOMEDICAL AND BEHAVIORAL SCIENCE													A U 5521
													A U 5522
1. Emergency Toxicological Assessment (W. Moorman, 684-8275) (1.5/12.0/55.0)(100/V00-Uyy-314)	82	83							U	c	a		AcyyyU 5524
													AcyyyU 5525
													AcyyyU 5526
.1 Conduct peer review					o								AcyyyU 5527
.2 Submit progress report to Director, DBBS					o	o	o	o					AcyyyU 5528
.3 Submit Hazard Data Sheets to O.D., DBBS						o							AcyyyU 5529
.4 Initiate animal exposures						o							AcyyyU 5530
.5 Complete animal exposures (1Q83)													AcyyyU 5531
.6 Complete pathology evaluations (2Q83)													AcyyyU 5532
.7 Submit final report to Director, DBBS (3Q83)													AcyyyU 5533
.8 Submit abstract to Director, NIOSH (3Q83)													AcyyyU 5534
.9 Submit project records to Q.A. Unit, DBBS (3Q83)													AcyyyU 5535
													AcyyyU 5536
2. Clinical-Biochemical Support Service (L. Lowry, 684-8338) (100/V0T-Uyy-389)	82	C							U	c	a		AdyyyU 5539
													AdyyyU 5540
													AdyyyU 5541
.1 Complete standard operating procedures for commonly used methods					o								AdyyyU 5542
													AdyyyU 5543
.2 Complete analyses:													AdyyyU 5544
a. Per quarter, 85% of DBBS in-house research samples from experimental animals (approx. 1275/Q)					o	o	o	o					AdyyyU 5545
b. Per quarter, 80% of DBBS in-house research samples from human subjects (approx. 160/Q)					o	o	o	o					AdyyyU 5547
c. Per quarter, 80% of samples from human field research studies (approx. 160/Q)					o	o	o	o					AdyyyU 5549
													AdyyyU 5550
.3 Perform radioisotope monitoring, research support and radioimmunoassay support services													AdyyyU 5551
a. Monitoring (safety)					o	o	o	o					AdyyyU 5553
b. Research support.					o	o	o	o					AdyyyU 5554
c. Radioimmunoassay					o	o	o	o					AdyyyU 5555
.4 Develop biological monitoring methods as requested by NIOSH research divisions													AdyyyU 5556
													AdyyyU 5557
a. Glycol ether urine metabolites					o								AdyyyU 5558
b. Other methods as required						o	o	o					AdyyyU 5559
c. Submit developed methods for publication							o						AdyyyU 5560
.5 Provide professional consultation					o	o	o	o					AdyyyU 5561
.6 Submit progress report to Director, DBBS					o	o	o	o					AdyyyU 5562
.7 Submit final project report to Director, DBBS								o					AdyyyU 5563
.8 Submit abstract to Director, NIOSH								o					AdyyyU 5564
													AdyyyU 5565

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY				PLANNED COMPLETION				P M F			RESOURCES	
	I C				1Q 2Q 3Q 4Q				R E U			NPF TF	
									O C N			PY \$1000 \$1000	
DIVISION OF PHYSICAL SCIENCES AND ENGINEERING													
3. Monitoring Methods for Aldehydes (E. Kennedy 684-4259) (.3/5/15)(100/VQU-Uyu-484)	82	83							U	c	a		
.1 Complete stability and capacity tests												B	U 5568
.2 Complete evaluation of method												B	U 5569
.3 Submit method to editor, "NIOSH Manual of Analytical Methods" (1Q83)												BcyuiU	5570
												BcyuiU	5571
												BcyuiU	5572
												BcyuiU	5573
												BcyuiU	5574
												BcyuiU	5575
												BcyuiU	5576
												BcyuiU	5577
4. Inorganic Chemical Speciation (T. Carsey, 684-4272) (100/VQU-UpN-489)	82	82							U	c	a		
.1 PbO/PbS speciation												BcpNyU	5580
a. Complete method validation report												BcpNyU	5581
b. Submit final report to Director, DPSE												BcpNyU	5582
.2 Vanadium compound chemical speciation												BcpNyU	5583
a. Complete generation and recovery report												BcpNyU	5584
b. Submit final report to Director, DPSE												BcpNyU	5585
.3 Copper fume/dust speciation												BcpNyU	5586
a. Complete set-up of sample generation system												BcpNyU	5587
b. Complete analytical procedure												BcpNyU	5588
c. Submit final report to Director, DPSE												BcpNyU	5589
												BcpNyU	5590
												BcpNyU	5591
												BcpNyU	5592
												BcpNyU	5593
5. Inorganic Methods Development (D. Taylor, 684-4271) (VQU-iNt-433)(100/VQU-UNE-433)	79	82							U	b	a		
.1 Sampling and analytical method for determination of organic tin compounds (210-80-0066)												BcNeyU	5596
a. Submit final report to Director, NIOSH												BcNeyU	5597
.2 Development of sampling and analytical methods for chlorine, chlorine dioxide, and bromine (#210-80-0067)												BcNeyU	5598
a. Submit final report to Director, NIOSH												BcNeyU	5599
.3 Submit camera copy to printing management to publish Volume 8 "NIOSH Manual of Analytical Methods"												BcNeyU	5600
												BcNeyU	5601
												BcNeyU	5602
												BcNeyU	5603
												BcNeyU	5604
												BcNeyU	5605
												BcNeyU	5606
												BcNeyU	5607

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY		PLANNED COMPLETION				P M F R E U O C N			RESOURCES		
	I	C	1Q	2Q	3Q	4Q	G	H	D	PY	NPF	TF
											\$1000	\$1000
6. Silica (XRD), BOM Silica (IR) and Asbestos Analytical Methods (M. Abell, 684-4272)(VQU-iNp-495)(VQU-iNp-429)(100/VQU-Unk-495) (100/VQU-Unk-429)	79	82					U	b	a		BcnkmU	5610
											BcnkmU	5611
											BcnkmU	5612
											BcnkmU	5613
.1 Collaborative test of NIOSH silica (XRD), BOM silica (IR) methods											BcnkmU	5614
a. First round samples analyzed by selected laboratories											BcnkmU	5615
b. Second round of analyses by collaborating laboratories complete											BcnkmU	5616
c. Draft final report received from contractor											BcnkmU	5617
d. Final report submitted to Director, NIOSH											BcnkmU	5618
.2 Evaluation of automatic asbestos analyzer											BcnkmU	5619
a. Establish protocol for statistical comparison											BcnkmU	5620
b. Complete testing of instruments											BcnkmU	5621
c. Submit method to "NIOSH Manual of Analytical Methods"											BcnkmU	5622
7. Diffusive Sampling Methods Development (R. Hull 684-4273) (VQU-iNt-434)(2.0/15/75)(100/VQU-UNY-434)	81	83					U	c	a		BcNyIU	5623
											BcNyIU	5624
.1 Establish performance specifications for diffusional samplers											BcNyIU	5625
.2 Complete lab/field evaluation for sulfur dioxide samplers (1Q83)											BcNyIU	5626
.3 Complete lab evaluation for ammonia (3Q83)											BcNyIU	5627
.4 Submit final report to Director, DPSE (4Q83)											BcNyIU	5628
8. Multielement Analysis of Bulk Materials (D. Sweet, 684-4265)(100/VQU-Upr-492)	82	82					U	c	a		BcpriuU	5629
											BcpriuU	5630
.1 Complete evaluation of ICP-AES sensitivity											BcpriuU	5631
.2 Complete evaluation of tissue processing techniques											BcpriuU	5632
.3 Submit final report to Director, DPSE											BcpriuU	5633
9. Aerosol Monitoring Development (P Baron 684-4381) (VQX-hgp-454)(100/VQX-Ugy-454)	77	82					U	g	a		BdgyMU	5634
											BdgyMU	5635
.1 Complete protocol for equivalence of asbestos methods (joint with MRB)											BdgyMU	5636
.2 Complete report on Magiscan (M) and M88 Fiber Counter (F)											BdgyMU	5637
.3 Receive personal dust exposure monitoring prototypes from BOM IAA											BdgyMU	5638
.4 Complete report on Fibrous Aerosol Monitor											BdgyMU	5639
.5 Complete report on evaluation of Portable XRF Analyzer developed under DOE IAA											BdgyMU	5640

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	P M F R E U O C N					RESOURCES	
	PLANNED COMPLETION					NPF	TF
	FY I C	1Q	2Q	3Q	4Q	G H D	PY \$1000 \$1000
10. Develop Certification Criteria for Mine Dust Samplers (J. Bowman 684-4430)(VQX-gNp-436)(100/VQX-UNm-436)	79	82				U b b	
.1 Validation of Certification Tests							BdNmyU 5663
a. Transmit samplers to DSR for collaborative testing			o				BdNmyU 5664
b. Analyze results of DSR collaborative test					o		BdNmyU 5665
.2 Characterize Pump Fluctuations on Sampler Performance							BdNmyU 5666
a. Measure flow patterns of three (3) pump brands				o			BdNmyU 5667
b. Transmit recommendations to Director, DPSE					o		BdNmyU 5668
11. Monitoring and Sampling Strategies for Coal Mine Dust (J. Bowman 684-4430)(VQX-hNp-450)(100/VQX-UNm-450)	81	82				U c a	BdNmyU 5669
.1 Develop Sampling Strategies							BdNmyU 5670
a. Present paper on "Sampling Strategies for Coal Mine Dust" at Int'l Symposium on Aerosols			o				BdNmyU 5671
b. Recommend new sampling strategies to Director, NIOSH for transmission to MSHA					o		BdNmyU 5672
.2 Transmit recommendations for worker participation policies and research to Director, NIOSH			o				BdNmnU 5675
							BdNmnU 5676
							BdNmnU 5677
							BdNmnU 5678
							BdNmnU 5679
							BdNmnU 5680
							BdNmnU 5681
							BdNmnU 5682
							BdNmnU 5683
							BdNmnU 5684
							BdNmnU 5685

DISSEMINATE OCCUPATIONAL SAFETY AND HEALTH FINDINGS AND RECOMMENDATIONS

NIOSH's goal, to disseminate findings and recommendations on occupational safety and health problems, is NIOSH's process to develop scientific policy for preventing occupational hazards. NIOSH scientists disseminate findings by recommending governmental actions (recommend standards), or informing the public of identified problems and their solutions (research reports), or providing benefits (health hazard evaluations). Transferring information into private and public organizations through education, conferences, and joint action (governmental, management, and labor) is an integral link in the dissemination process so as to ensure prevention of identified problems on a much broader front than NIOSH has resources to accomplish. The following long-range objectives for the Nation are considered under this goal:

1. By 1985, 50 percent of all employers with more than 500 employees should have an approved plan of hazard control for all new processes, new equipment, and new installations. (Baseline data unavailable.)
2. By 1990, all employers with more than 500 employees should have an approved plan of hazard control for all new processes, new equipment, and new installations. (Baseline data unavailable.)
3. By 1985, workers should be routinely informed of lifestyle behaviors and health factors that interact with factors in the work environment to increase risks of occupational illness and injuries. (Baseline data unavailable.)
4. By 1985, all workers should receive routine notification in a timely manner of all health examinations or personal exposure measurements taken on work environments directly related to them. (Baseline data unavailable.)
5. By 1990, at least 25 percent of workers should be able, prior to employment, to state the nature of their occupational health and safety risks and their potential consequences, as well as to be informed of changes in these risks while employed. (In 1979, an estimated 5 percent of workers were fully informed.)
6. By 1990, all industrial managers should be fully informed about the importance of and methods for controlling human exposure to the important toxic agents in their work environments. (Baseline data unavailable.)

7. By 1990, at least 70 percent of primary health care providers should routinely elicit occupational health exposures as part of a patient's history and should know how to interpret the information to patients in an understandable manner. (Baseline data unavailable.)
8. By 1990, at least 70 percent of all graduate engineers should be skilled in the design of plants and processes that incorporate occupational safety and health control technologies. (Baseline data unavailable.)
9. By 1990, generic standards and other forms of technology transfer should be established, where possible, for standardized employer attention to such major common problems as chronic lung hazards, neurological hazards, carcinogenic hazards, mutagenic hazards, and teratogenic hazards, and medical monitoring requirements.

And the following FY 1982 objectives requested by DOL's NIOSH Planning Group also are considered under this goal:

First-Order Priority

1. Provide, to OSHA, information to support the issuance of standards for repetitive-motion injuries.
2. Initiate generic criteria document development, for OSHA, in high-priority industries such as pharmaceuticals (Standard Industrial Classification 283), paper (SIC 26), photo processing (SIC 7395), arts and graphics (SIC 7333), printing (SIC 27), petrochemicals (refining - SIC 2911), and laboratories.
3. Provide, to ESA, criteria for setting standards for workers' compensation on the causation and diagnosis of significant occupational diseases such as asbestosis, bysinosis, silicosis, beryllium, cadmium, and arsenic.

Second-Order Priority

4. Initiate or revise and update, for OSHA, substance-specific criteria documents on n-hexane, chlorine, formaldehyde, perchlorethylene, aromatic amines, chlorinated naphthalenes, and chlorinated paraffins.

INFORMATION DISSEMINATION/DOCUMENT DEVELOPMENT

This is a continuing program area for NIOSH, and all the offices/divisions are involved. It is necessitated by the Institute's statutory mandates to conduct research, evaluate occupational hazards, and develop criteria that can serve as a basis for OSHA's and MSHA's regulatory activities. Inherent in these functions is the need to disseminate findings, conclusions, and recommendations. With the reduction in regulatory activities by DOL, improvement in the general state of OSH practice is, to a great extent, dependent upon voluntary action, which in turn is fostered by the availability of scientifically credible information and recommendations. These need to be made available to workers directly and to others who have responsibilities for improving workplace safety and health. Projects in this program area will focus on (1) ensuring scientific and technical quality, (2) improving methods for setting priorities, (3) expanding the audience by diversifying the types and formats of informational products, and (4) developing more efficient dissemination strategies. The results of the various Institute research efforts, from all the research divisions, are made available to the general and professional publics through publication in appropriate professional journals and government reports, and in public presentations. These output documents also include the reports resulting from the HHE programs maintained by both DSHEFS and DRDS.

In FY 1982 (and subsequent years), the DSHEFS dissemination program should continue at about the same level of output or increase slightly. In addition, beginning in FY 1982, DSHEFS will be publishing a new series of Surveillance Reports containing information on high-risk industries and occupations, four to six of which will be published each year. Each will be directed to a specific target audience (government, industry, labor, academic decision makers) depending on the nature of the hazards/health effects identified.

Division of Standards Development and Technology Transfer

In performing its standards development and technology transfer functions, DSDTT touches upon most of the Institute's program areas. Documents developed by the Division incorporate assessments of occupational hazard by performing literature research in the program areas of physical agents, injury/trauma, cancer, reproductive hazards, neurotoxic effects, and disorders of all the major body systems. Recommendations for the control of these occupational hazards require literature research and assessments of control systems, respirators, and other personal protective equipment. DSDTT contributes to surveillance activities through its project which provides response to external requests. It also contributes to work force development by training ERC personnel in computer data-base searching techniques and by providing technical assistance and publications support.

DSDTT will maintain the Institute's information acquisition and storage systems, including the computer data bases and the libraries. Information will be disseminated through publications (e.g., criteria documents, technical reports, HHE summaries and reports), exhibits, and direct responses to requests for technical information and computer searches. Planned changes in specific services include the following:

1. The RTECS Editorial Review Board will suggest new formats so that RTECS can be used by a wider audience.
2. The Toxic Substance List for Mines will be integrated into the RTECS activity.
3. Wider accessibility to NIOSHTIC will be encouraged through licenses with data-base vendors via the National Technical Information Service, U.S. Department of Commerce.
4. A unified procurement policy for all libraries will be developed.
5. Information dissemination strategies will be reviewed to achieve greater efficiencies.

DSDTT proposes to improve development of documents by a combination of organizational and programmatic changes:

1. DSDTT will merge all document production under one branch and simultaneously create sections of the branch in Morgantown and Cincinnati. The Morgantown section will emphasize documents relating to safety and mining. The trend toward diversification of documents would be maintained and none of these documents would conform to a rigid format formerly employed in the production of criteria documents. A primary output of the Division will be criteria documents that are comprehensive assessments of occupational hazards with recommended methods for control. These documents will be usable by OSHA and MSHA for regulatory activities and by the workers and safety and health professionals who have responsibilities involving workplace hazard control. The Division also will produce other types of publications and reports that convey important scientific and technical information in formats designed specifically for an intended audience.
2. The Priorities and Research Analysis Branch will take on significantly expanded activities. In addition to recommending priorities for document development, it will make recommendations for Institute research where research gaps are identified and explore new programs in the area of emerging technologies. It also will add quantitative risk assessment to its research analysis function.

Division of Surveillance, Hazard Evaluations, and Field Studies

In FY 1981 DSHEFS undertook a variety of efforts to actively disseminate the results of its field investigations to professionals in the OSH field and to appropriate employers and employees. Such efforts included (1) submission of over 300 reports on completed industrial hygiene and medical studies (i.e., individual plant HHE and industrywide study reports) to NTIS; (2) publication of four NIOSH technical reports, with three in press; (3) publication of 40 articles in technical journals, with 40 in press; (4) publication of 10 articles in CDC's MMWR; (5) publication of two HHE Program Summaries (summarizing the results of 66 recently completed HHEs); (6) publication of two articles in industry/labor trade journals describing hazards found and means for reducing the hazards; (7) providing 180 reports to requesters of information regarding potentially hazardous industries or agents identified in NOHS-I; and (8) giving 60 presentations pertaining to the results of DSHEFS studies before technical, academic, and professional groups.

Division of Safety Research

The DSR activities in comprehensive safety recommendation documents will be changed to keep abreast of current research demands. Documents currently being developed will provide the best available technology for voluntary efforts to minimize the risk of injuries in the workplace.

DSR plans to take computer-stored information on worker compensation injuries, analyze it, and package it into reports that will be meaningful for public health officials, researchers, professional associations, and industry/occupation interest groups. DSR, in conjunction with DSDTT, also plans to publish comprehensive recommendations for the control of hazards in industrial processes.

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY				PLANNED COMPLETION				P M F			RESOURCES	
	I C		1Q	2Q	3Q	4Q	G H D	PY	O C N			NPF	TF
												\$1000	\$1000
DIVISION OF SAFETY RESEARCH													
4. Ongoing Safety Criteria Documents	81	85					H b a					E H	5734
(Pettit 923-7574)												E H	5735
(VLF-mbN-842)(5.0/933.0/1083.0)(VEc-HyN-842)												EcyNyH	5736
.1 Oil and Gas Document												EcyNyH	5737
a. Conduct external review meeting			o									EcyNyH	5738
b. Conduct Division review meeting				o								EcyNyH	5739
c. Conduct Director's review meeting					o							EcyNyH	5740
d. Final deliverable						o						EcyNyH	5741
.2 Pre-Cast Concrete Document												EcyNyH	5742
a. Conduct external review meeting				o								EcyNyH	5743
b. Conduct Division review meeting				o								EcyNyH	5744
c. Conduct Director's review meeting					o							EcyNyH	5745
d. Final deliverable						o						EcyNyH	5746
.3 Fabricated Metals Document												EcyNyH	5747
a. Conduct project officer review meeting			o									EcyNyH	5748
b. Conduct external review meeting				o								EcyNyH	5749
c. Conduct Division review meeting					o							EcyNyH	5750
d. Conduct Director's review meeting						o						EcyNyH	5751
e. Final deliverable						o						EcyNyH	5752
.4 Establish list of candidate subjects for new documents			o									EcyNyH	5753
.5 Coordinate meeting w/OSHA, DCSD AND DSR - analyze data on candidates			o									EcyNyH	5754
.6 Select 3 subjects				o								EcyNyH	5755
.7 Develop RFP - Submit/OAMS				o								EcyNyH	5756
.8 Award contract (1Q83)												EcyNyH	5757
.9 Identify documents with safety impact for DSR			1	2	3							EcyNyH	5758
in-house effort -- coordinate with DCSD/other divisions (roofing, welding, etc.)												EcyNyH	5759
												EcyNyH	5760
												EcyNyH	5761
												EcyNyH	5762
												EcyNyH	5763
												EcyNyH	5764

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY		PLANNED COMPLETION				P M F R E U O C N			RESOURCES NPF TF			
	I	C	1Q	2Q	3Q	4Q	G	H	D	PY	\$1000	\$1000	
5. Effectiveness of OSHA Construction Standards Point of Erection (Stanevich (923-7574) (VLF-nbq-845)(100/VEc-Hyy-845) Point of Erection	80	82								H b a			EcyyyH 5767
.1 Contract No. 210-81-3007 awarded (2Q81)													EcyyyH 5768
.2 Delete requirement for OMB clearance (3Q81)													EcyyyH 5769
.3 Collect and analyze OSHA Accident Data (4Q81)													EcyyyH 5770
.4 Conduct and report on site visits (4Q81)													EcyyyH 5771
.5 Prepare first draft of erection procedure description (4Q81)													EcyyyH 5772
.6 Critique first draft of erection procedure descriptions by NIOSH and OSHA				o									EcyyyH 5773
.7 Conduct site visits and prepare site visit reports (6 completed in 4Q81)				3									EcyyyH 5774
.8 Review progress reports of data collection and analysis				3									EcyyyH 5775
.9 Prepare first draft of research study protocol for determining effectiveness of standards				o									EcyyyH 5776
.10 Initiate OSHA, DSR and SPRG peer review of protocol				o									EcyyyH 5777
.11 Prepare final draft of protocol				o									EcyyyH 5778
.12 Prepare final report					o								EcyyyH 5779
.13 Complete technical evaluation of final report					o								EcyyyH 5780
.14 Submit final report to Director of NIOSH						o							EcyyyH 5781
.15 Submit report to OSHA							o						EcyyyH 5782
Evacuation, Trenching & Shoring													EcyyyH 5783
.16 NIOSH-IA-80-66 Accepted (4Q80)													EcyyyH 5784
.17 Prepare final version of working draft (2Q81)													EcyyyH 5785
.18 Distribute 3000 copies of working draft to workshop sponsors (2Q81)													EcyyyH 5786
.19 Defend recommendations at workshops (3Q81)													EcyyyH 5787
.20 Prepare summaries of workshop proceedings (4Q81)													EcyyyH 5788
.21 Incorporate workshop comments into first draft of suggested revision (4Q81)													EcyyyH 5789
.22 NIOSH and OSHA complete technical evaluation of first draft (4Q81)													EcyyyH 5790
.23 Prepare final draft of suggested revision				o									EcyyyH 5800
.24 Review and evaluate final draft of suggested revision				o									EcyyyH 5801
.25 Submit suggested revision of OSHA					o								EcyyyH 5802
													EcyyyH 5803
													EcyyyH 5804

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY				PLANNED COMPLETION				P M F			RESOURCES				
	I	C	1Q	2Q	3Q	4Q	O	C	N	G	H	D	PY	NPF	TF	
6. Relationship of Worker Casualties to Fire Protection Strategies (Bochnak 923-7574) (VLF-nby-848)(0.8/25.0/49.0)(100/VEc-Hyy-848) .1 Meetings at USFA and other sites .2 Report meeting results .3 Identify computer outputs for analysis with USFA assistance (4Q81) .4 Access data with USFA assistance .5 Review raw data .6 Develop study design for analysis and coordinate with SSB .7 Analyze data and coordinate with SSB .8 Draft final report .9 Critique and coordinate results of final report with SSB and USFA .10 Final report .11 Critique and approve final report .12 Publish report (1Q83)	81	82														
					</											

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY				PLANNED COMPLETION				P M F			RESOURCES	
	I C		1Q	2Q	3Q	4Q	G H D	PY	R E U		O C N	NPF	TF
												\$1000	\$1000
8. General Industries Applications of Mine Safety Technology (Stanevich 599-7574) (2.0/55.0/115.0)(100/VEc-Hyy-804)	81	83					H g a						
.1 Meet with MSHA; develop scope of interagency agreement			o	o								EcyyyH	5843
.2 Coordination with DRDS and DCQSD			o		o							EcyyyH	5844
.3 Training of DSR staff			o		o	o						EcyyyH	5845
.4 Site visits												EcyyyH	5846
a. Surface and underground mines				o	o	o						EcyyyH	5847
b. Mine safety research centers				o	o							EcyyyH	5848
c. University laboratories			o	o	o	o						EcyyyH	5849
.5 Study protocol submitted to DSR review				o								EcyyyH	5850
.6 Study protocol submitted to Peer Review				o								EcyyyH	5851
.7 Interagency and other clearances obtained from CDC				o								EcyyyH	5852
.8 Award Interagency Agreement				o								EcyyyH	5853
.9 Phase I report on identification of problem areas, correlation of mine hazards with general industries, and summary of mine safety technology successes												EcyyyH	5854
a. Submit for DSR review							o					EcyyyH	5855
b. Peer and consultant review							o					EcyyyH	5856
c. Submit for publication (3Q83)												EcyyyH	5857
.10 Phase II report on recommendations for applications to general industry safety and design of studies and/or methodologies for demonstration projects in general industries												EcyyyH	5858
a. Submit for DSR review (1Q83)												EcyyyH	5859
b. Peer and consultant review (2Q83)												EcyyyH	5860
c. Submit for publication (3Q83)												EcyyyH	5861
												EcyyyH	5862
												EcyyyH	5863
												EcyyyH	5864
												EcyyyH	5865
												EcyyyH	5866
												EcyyyH	5867
												EcyyyH	5868
												EcyyyH	5869
												EcyyyH	5870

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY				PLANNED COMPLETION				P M F			RESOURCES	
	I C		1Q	2Q	3Q	4Q	G H D	PY	O C N			NPF	TF
												\$1000	\$1000
9. Effects of Safety Tasks on Injury Rates (Simons 923-7574) (1.0/42.5/32.5)(100/VEc-Hyy-805)	80	83							H b a				
.1 Send questionnaire for peer review				o								EcyyyH	5873
.2 Peer review of statistical analysis techniques				o								EcyyyH	5874
.3 RFC to Contracts				o								EcyyyH	5875
.4 Computer programming packages selected					o							EcyyyH	5876
.5 Computer programming completed					o							EcyyyH	5877
.6 Award contract						o						EcyyyH	5878
.7 Monthly reports received						1	4					EcyyyH	5879
.8 OMB clearance obtained							o					EcyyyH	5880
.9 Questionnaire mailing							o					EcyyyH	5881
.10 Second mailing of questionnaires to nonrespondents (1Q83)												EcyyyH	5882
.11 Receipt of final tabulation or results (2Q83)												EcyyyH	5883
.12 Close of contract (2Q83)												EcyyyH	5884
.13 Completion of initial analysis (2Q83)												EcyyyH	5885
.14 Computer program revised (if necessary) (2Q83)												EcyyyH	5886
.15 Review of report - first draft (3Q83)												EcyyyH	5887
.16 Final report complete (4Q83).												EcyyyH	5888
												EcyyyH	5889
												EcyyyH	5890
												EcyyyH	5891
												EcyyyH	5892
10. Field Demonstration-Recommended Safety Practices-Confined Spaces (Pettit 923-7574) (2.0/300.0/360.0)(100/VEc-Hyy-846)	80	84							H b a				
.1 Receipt of proposed course content & performance objectives (Task Order deliverable)				o								EcyyyH	5895
.2 Peer Review of task order deliverable by DSR & DTMD				o								EcyyyH	5896
.3 Meeting between Project Reactor Group (industry and labor supporters) and NIOSH to define extent of interest in participating in study				o								EcyyyH	5897
.4 Submit draft RFC for field demonstration for peer review - DSR, NIOSH Divisions, external				o								EcyyyH	5898
.5 Submit request for funding study through NIOSH planning channels				o								EcyyyH	5899
.6 Submit RFC to OAMS					o							EcyyyH	5900
.7 Award contract						o						EcyyyH	5901
												EcyyyH	5902
												EcyyyH	5903
												EcyyyH	5904
												EcyyyH	5905
												EcyyyH	5906
												EcyyyH	5907
												EcyyyH	5908
												EcyyyH	5909
												EcyyyH	5910

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY		PLANNED COMPLETION				P M F R E U O C N			RESOURCES		
	I	C	1Q	2Q	3Q	4Q	G	H	D	PY	NPF	TF
											\$1000	\$1000
8. General Industries Applications of Mine Safety Technology (Stanevich 599-7574) (2.0/55.0/115.0)(100/VEc-Hyy-804)	81	83					H	g	a			
.1 Meet with MSHA; develop scope of interagency agreement											EcyyyH	5843
.2 Coordination with DRDS and DCDSO											EcyyyH	5844
.3 Training of DSR staff											EcyyyH	5845
.4 Site visits											EcyyyH	5846
a. Surface and underground mines											EcyyyH	5847
b. Mine safety research centers											EcyyyH	5848
c. University laboratories											EcyyyH	5849
.5 Study protocol submitted to DSR review											EcyyyH	5850
.6 Study protocol submitted to Peer Review											EcyyyH	5851
.7 Interagency and other clearances obtained from CDC											EcyyyH	5852
.8 Award Interagency Agreement											EcyyyH	5853
.9 Phase I report on identification of problem areas, correlation of mine hazards with general industries, and summary of mine safety technology successes											EcyyyH	5854
a. Submit for DSR review											EcyyyH	5855
b. Peer and consultant review											EcyyyH	5856
c. Submit for publication (3Q83)											EcyyyH	5857
.10 Phase II report on recommendations for applications to general industry safety and design of studies and/or methodologies for demonstration projects in general industries											EcyyyH	5858
a. Submit for DSR review (1Q83)											EcyyyH	5859
b. Peer and consultant review (2Q83)											EcyyyH	5860
c. Submit for publication (3Q83)											EcyyyH	5861
											EcyyyH	5862
											EcyyyH	5863
											EcyyyH	5864
											EcyyyH	5865
											EcyyyH	5866
											EcyyyH	5867
											EcyyyH	5868
											EcyyyH	5869
											EcyyyH	5870

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY		PLANNED COMPLETION				P M F			RESOURCES	
	I C		1Q	2Q	3Q	4Q	O C N	G H D	PY	NPF	TF
										\$1000	\$1000
9. Effects of Safety Tasks on Injury Rates (Simons 923-7574) (1.0/2.5/32.5)(100/VEc-Hyy-805)	80	83					H b a				
.1 Send questionnaire for peer review										EcyyyH	5873
.2 Peer review of statistical analysis techniques										EcyyyH	5874
.3 RFC to Contracts										EcyyyH	5875
.4 Computer programming packages selected										EcyyyH	5876
.5 Computer programming completed										EcyyyH	5877
.6 Award contract										EcyyyH	5878
.7 Monthly reports received										EcyyyH	5879
.8 OMB clearance obtained										EcyyyH	5880
.9 Questionnaire mailing										EcyyyH	5881
.10 Second mailing of questionnaires to nonrespondents (1Q83)										EcyyyH	5882
.11 Receipt of final tabulation or results (2Q83)										EcyyyH	5883
.12 Close of contract (2Q83)										EcyyyH	5884
.13 Completion of initial analysis (2Q83)										EcyyyH	5885
.14 Computer program revised (if necessary) (2Q83)										EcyyyH	5886
.15 Review of report - first draft (3Q83)										EcyyyH	5887
.16 Final report complete (4Q83).										EcyyyH	5888
										EcyyyH	5889
										EcyyyH	5890
										EcyyyH	5891
										EcyyyH	5892
10. Field Demonstration-Recommended Safety Practices-Confined Spaces (Pettit 923-7574) (2.0/300.0/360.0)(100/VEc-Hyy-846)	80	84					H b a				
.1 Receipt of proposed course content & performance objectives (Task Order deliverable)										EcyyyH	5895
.2 Peer Review of task order deliverable by DSR & DTMD										EcyyyH	5896
.3 Meeting between Project Reactor Group (industry and labor supporters) and NIOSH to define extent of interest in participating in study										EcyyyH	5897
.4 Submit draft RFC for field demonstration for peer review - DSR, NIOSH Divisions, external										EcyyyH	5898
.5 Submit request for funding study through NIOSH planning channels										EcyyyH	5899
.6 Submit RFC to OAMS										EcyyyH	5900
.7 Award contract										EcyyyH	5901
										EcyyyH	5902
										EcyyyH	5903
										EcyyyH	5904
										EcyyyH	5905
										EcyyyH	5906
										EcyyyH	5907
										EcyyyH	5908
										EcyyyH	5909
										EcyyyH	5910

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY				PLANNED COMPLETION				P M F R E U O C N G H D		RESOURCES	
	I C		1Q	2Q	3Q	4Q			PY		NPF	TF
											\$1000	\$1000
OFFICE OF EXTRAMURAL COORDINATION AND SPECIAL PROJECTS												
11. International Activities (Bursenos, 443-3136) (VCA-nXy-878) (1.5/0.4/0.473) (100/VCA-Hyy-878)	71	C						H f a			F H	5913
											F H	5914
											FFyyyH	5915
											FFyyyH	5916
											FFyyyH	5917
											FFyyyH	5918
											FFyyyH	5919
											FFyyyH	5920
											FFyyyH	5921
											FFyyyH	5922
											FFyyyH	5923
											FFyyyH	5924
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											FFyyyH	5926
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											FFyyyH	5943
											FFyyyH	5944
											FFyyyH	5945
											FFyyyH	5946
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											FFyyyH	5948
											FFyyyH	5949
											FFyyyH	5950
											FFyyyH	5951
											FFyyyH	5952
											FFyyyH	5953
											FFyyyH	5954
											FFyyyH	5955
											FFyyyH	5956
											FFyyyH	5957
											FFyyyH	5958

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY				P M F				R E U				RESOURCES	
	PLANNED COMPLETION				O C N				NPF		TF			
	I	C	1Q	2Q	3Q	4Q	G	H	D	PY	\$1000	\$1000		

b. Arrange for assignment of scientists from Poland to NIOSH				o									FFyyyH	5959
													FFyyyH	5960
.8 Arrange visits for foreign visitors and delegations to NIOSH with appropriate staff in Atlanta, Morgantown, and/or Cincinnati			o	o	o	o							FFyyyH	5961
													FFyyyH	5962
.9 Attend meetings at PHS level in preparation for Joint Committee Meetings under bilateral agreements with Poland, Yugoslavia,, USSR, Egypt, China, Nigeria and Mexico			o	o	o	o							FFyyyH	5963
													FFyyyH	5964
10 Update paper on "Current State of NIOSH International Activities					o								FFyyyH	5965
													FFyyyH	5966
11 Submit FY 1983 Travel Plan to CDC									o				FFyyyH	5967
12 Update accession list of final reports and publications from PL-480 research									o				FFyyyH	5968
13 Develop white paper on coordination of OSH activities in developing countries with overall CDC public health activities in developing countries for FY 1983						o							FFyyyH	5969
													FFyyyH	5970
													FFyyyH	5971
													FFyyyH	5972
													FFyyyH	5973
													FFyyyH	5974
													FFyyyH	5975

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY				COMPLETION				P M F R E U O C N G H D		RESOURCES	
	I C		1Q	2Q	3Q	4Q			PY		NPF	TF
											\$1000	\$1000
12. Occupational Health and Medical Care (Casey, 443-4770) (VCA-uXy-880) (2.7/0.200/0.282) (100/VCA-Hyy-880)	79	C						H c a			FFyyyH	5978
											FFyyyH	5979
											FFyyyH	5980
.1 NHSC Activities											FFyyyH	5981
a. Meet quarterly with NHSC Project Officer				o	o	o	o				FFyyyH	5982
b. Provide orientation of occupational safety and health for new head, BHPDS and NHSC				o							FFyyyH	5983
c. Participate in 4 Regional Inservice Conferences						o					FFyyyH	5984
d. Participate in 4 NHSC orientation conferences						o					FFyyyH	5985
e. Promote attendance of NHSC physicians at Occupational Medicine Course in Atlanta in November				o							FFyyyH	5986
f. Write 2 articles for Notes on Occupational Safety and Health				o		o					FFyyyH	5987
											FFyyyH	5988
											FFyyyH	5989
											FFyyyH	5990
.2 Private Occupational Health Services Delivery											FFyyyH	5991
a. Meet or talk quarterly with OHMO, GHAA, AGPA, and SBA				o	o	o	o				FFyyyH	5992
b. Determine with OHMO five additional HMOs which would be good candidates for an OS&H program				o							FFyyyH	5993
c. Contact 5 additional identified HMOs to offer technical assistance and occupational health orientation				2	5						FFyyyH	5994
d. Develop news articles for OHMO monthly publications											FFyyyH	5995
.01 HMOs and Occupational Health											FFyyyH	5996
.02 Occupational Safety and Health in Primary Care Settings						o					FFyyyH	5997
e. Develop Memorandum of Understanding with SBA to explore ways to help small business with OS&H				o							FFyyyH	5998
f. Submit MOU to OPPE											FFyyyH	5999
g. Obtain signatures of concurrence on SBA-NIOSH MOU						o					FFyyyH	6000
h. Send two NIOSH speakers to AGPA conference on OS&H in October (at AGPA invitation and expense)				o		o					FFyyyH	6001
i. Establish liaison with new AGPA section on Occupational Medicine						o					FFyyyH	6002
j. Check various data sources for census of OS&H providers						o					FFyyyH	6003
k. Develop initial list							o				FFyyyH	6004
l. Submit list to AOMA, AMA, etc. for review							o				FFyyyH	6005
m. Finalize list and submit for NIOSH publication (1st Q, FY 1983)											FFyyyH	6006
											FFyyyH	6007
.3 BHS/PHS Activities											FFyyyH	6008
a. Transfer quarterly funds to BMS for PHS Hospital Center				o	o	o	o				FFyyyH	6009
b. Conduct 1 site visit and receive briefing of PHS Hospital Center Activities							o				FFyyyH	6010
c. Receive FY 1981 annual progress report from PHS Hospital Center				o							FFyyyH	6011
d. Receive FY 1981 annual financial report from PHS Hospital Center				o							FFyyyH	6012
.4 Promoting Health - 1990 Objectives											FFyyyH	6013
a. Establish internal NIOSH coordinating committee related						o					FFyyyH	6014
											FFyyyH	6015
											FFyyyH	6016
											FFyyyH	6017
											FFyyyH	6018
											FFyyyH	6019
											FFyyyH	6020
											FFyyyH	6021
											FFyyyH	6022
											FFyyyH	6023

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY				P M F				RESOURCES			
	PLANNED COMPLETION				R E U				NPF TF			
	I	C	1Q	2Q	3Q	4Q	G	H	D	PY	\$1000	\$1000
to the 1990 objectives											FFyyyH	6024
b. Develop list of existing research projects				o							FFyyyH	6025
c. Review and compare lists for completeness and accuracy					o						FFyyyH	6026
d. Prepare analysis and report for utilizing existing sources						o					FFyyyH	6027
e. Contact agencies participating in 1990 objectives				o							FFyyyH	6028
f. Hold meeting of research agencies to discuss setting up of Interagency Task Force						o					FFyyyH	6029
g. Submit format and participation agreement to OPPE/OD (1st Q, FY 1983)											FFyyyH	6030
											FFyyyH	6031
											FFyyyH	6032
											FFyyyH	6033
											FFyyyH	6034

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY				PLANNED COMPLETION				P M F R E U O C N			RESOURCES	
	I C		1Q	2Q	3Q	4Q	G H D	PY	NPF TF			\$1000	\$1000
DIVISION OF STANDARDS DEVELOPMENT AND TECHNOLOGY TRANSFER												G H	6037
												G H	6038
13. Development of Criteria and Recommendations--	70	C					H b a					GbyyyH	6039
Document Development (D. West 513/684-8302)												GbyyyH	6040
(VID-nNX-077, 078, 088 & 089)(100/VID-Hyy-089)												GbyyyH	6041
												GbyyyH	6042
.1 RF/Microwave Radiation (CD)												GbyyyH	6043
a. Complete evaluation and review of document references												GbyyyH	6044
b. Submit document for 1st level review												GbyyyH	6045
c. Submit document for 2nd level review												GbyyyH	6046
d. Submit document for 3rd level review												GbyyyH	6047
e. Final document submitted to Director, NIOSH												GbyyyH	6048
.2 Crystalline Silica (Technical Report)												GbyyyH	6049
a. Submit document for 3rd level review												GbyyyH	6050
b. Final document submitted to Director, NIOSH												GbyyyH	6051
.3 Dinitrotoluene (CD)												GbyyyH	6052
a. Acquire and evaluate new information												GbyyyH	6053
b. Submit document for 1st level review												GbyyyH	6054
c. Submit document for 2nd level review												GbyyyH	6055
d. Submit document for 3rd level review												GbyyyH	6056
e. Final document submitted to Director, NIOSH												GbyyyH	6057
.4 Styrene (CD)												GbyyyH	6058
a. Acquire and evaluate new information												GbyyyH	6059
b. Submit document for 1st level review												GbyyyH	6060
c. Submit document for 2nd level review												GbyyyH	6061
d. Submit document for 3rd level review												GbyyyH	6062
e. Final document submitted to Director, NIOSH (1Q83)												GbyyyH	6063
.5 Welding, Brazing & Thermal Cutting (CD)												GbyyyH	6064
a. Develop work plan												GbyyyH	6065
b. Acquire and evaluate new information												GbyyyH	6066
c. Submit document for 1st level review												GbyyyH	6067
d. Submit document for 2nd level review												GbyyyH	6068
e. Submit document for 3rd level review												GbyyyH	6069
f. Final document submitted to Director, NIOSH (1Q83)												GbyyyH	6070
.6 Foundries (CD)												GbyyyH	6071
a. Acquire and evaluate new information												GbyyyH	6072
b. Submit document for 1st level review												GbyyyH	6073
c. Submit document for 2nd level review (1Q83)												GbyyyH	6074
d. Submit document for 3rd level review (1Q83)												GbyyyH	6075
e. Final document submitted to Director, NIOSH (2Q83)												GbyyyH	6076
.7 Methyl Halides (CD)												GbyyyH	6077
a. Acquire and evaluate new information												GbyyyH	6078
b. Submit document for 1st level review												GbyyyH	6079
c. Submit document for 2nd level review												GbyyyH	6080
d. Submit document for 3rd level review												GbyyyH	6081
e. Final document submitted to Director, NIOSH												GbyyyH	6082

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY		PLANNED COMPLETION				P M F			R E U		O C N		RESOURCES		PY	\$1000	\$1000		
	I	C	1Q	2Q	3Q	4Q	G	H	D	NPF	TF									
.8 Trinitrofluorenone (CIB)																			GbyyyH	6083
a. Submit document for 1st level review				o															GbyyyH	6084
b. Submit document for 2nd level review					o														GbyyyH	6085
c. Final document submitted to Director, NIOSH					o														GbyyyH	6086
.9 Glycol Ethers (CIB)																			GbyyyH	6087
a. Submit document for 1st level review				o															GbyyyH	6088
b. Submit document for 2nd level review					o														GbyyyH	6089
c. Final document submitted to Director, NIOSH					o														GbyyyH	6090
.10 Asbestos: Asbestos Exposure During Clutch Assemblies (Technical Report)																			GbyyyH	6091
a. Acquire and review new information					o														GbyyyH	6092
b. Submit document for 1st level review					o														GbyyyH	6093
c. Submit document for 2nd level review					o														GbyyyH	6094
d. Final document submitted to Director, NIOSH						o													GbyyyH	6095
.11 Ethylene Dibromide (CIB)																			GbyyyH	6096
a. Submit document for 2nd level review				o															GbyyyH	6097
b. Final document submitted to Director, NIOSH				o															GbyyyH	6098
.12 PCB Transformer Fires (Technical Report)																			GbyyyH	6099
a. Acquire and evaluate new information				o															GbyyyH	6100
b. Submit document for 1st level review					o														GbyyyH	6101
c. Submit document for 2nd level review						o													GbyyyH	6102
d. Final document submitted to Director, NIOSH							o												GbyyyH	6103
.13 Ethanol Interaction (CIB)																			GbyyyH	6104
a. Reassign to new project officer and review prior drafts and literature				o															GbyyyH	6105
b. Prepare final Branch draft					o														GbyyyH	6106
c. Submit for Division review					o														GbyyyH	6107
d. Prepare draft for Director's review						o													GbyyyH	6108
.14 Unidentified CIB																			GbyyyH	6109
a. Acquire and evaluate new information						o													GbyyyH	6110
b. Submit document for 1st level review						o													GbyyyH	6111
c. Submit document for 2nd level review							o												GbyyyH	6112
d. Final document submitted to Director, NIOSH								o											GbyyyH	6113
.15 Unidentified CIB																			GbyyyH	6114
a. Acquire and evaluate new information						o													GbyyyH	6115
b. Submit document for 1st level review						o													GbyyyH	6116
c. Submit document for 2nd level review							o												GbyyyH	6117
d. Final document submitted to Director, NIOSH								o											GbyyyH	6118
.16 Cobalt (CD)																			GbyyyH	6119
a. Final document submitted to Director, NIOSH				o															GbyyyH	6120
.17 Cadmium (CD Update)																			GbyyyH	6121
a. Determine document format					o														GbyyyH	6122
b. Complete literature update					o														GbyyyH	6123
c. Submit document for 1st level review					o														GbyyyH	6124
d. Submit document for 2nd level review						o													GbyyyH	6125
e. Submit document for 3rd level review							o												GbyyyH	6126

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY				P M F				RESOURCES	
	PLANNED COMPLETION				R E U				NPF	TF
	I	C	1Q	2Q	3Q	4Q	G	H		
f. Final document submitted to Director, NIOSH (1Q83)										GbyyyH 6129
.18 RF Sealers (Worker Information Bulletin)										GbyyyH 6130
a. Complete literature review										GbyyyH 6131
b. Submit document for 1st level review										GbyyyH 6132
c. Submit document for 2nd level review										GbyyyH 6133
d. Final document submitted to Director, NIOSH										GbyyyH 6134
.19 Mill Reagents (Information Bulletin)										GbyyyH 6135
a. Complete revisions of final Division draft and submit to Director, NIOSH										GbyyyH 6136
b. Prepare approved copy for printing and distribution										GbyyyH 6137
.20 Alkaline Dusts (Alert)										GbyyyH 6138
a. Reassign to new project officer & review prior drafts and literature										GbyyyH 6139
b. Prepare final Branch draft										GbyyyH 6140
c. Submit for Division Review										GbyyyH 6141
d. Prepare draft for Director NIOSH										GbyyyH 6142
.21 Hazardous Waste (Worker Bulletin)										GbyyyH 6143
a. Prepare and submit purchase order										GbyyyH 6144
b. Award contract										GbyyyH 6145
c. Receive contractor's 1st report										GbyyyH 6146
d. Receive camera ready draft from contractor										GbyyyH 6147
e. Submit draft and prepare transmittal letters for Director's approval										GbyyyH 6148
f. Prepare transmittal package for printing and distribution										GbyyyH 6149
.22 Benzidine Cogener Dyes (Worker Bulletin)										GbyyyH 6150
a. Prepare transmittal letters and submit draft for Director's approval										GbyyyH 6151
b. Prepare camera ready copy and transmittal package for printing and distribution										GbyyyH 6152
.23 Residential Waste Collection (Worker Bulletin)										GbyyyH 6153
a. Print and distribute										GbyyyH 6154
.24 DEHP (Special Hazard Review)										GbyyyH 6155
a. Prepare camera ready copy and transmittal letters										GbyyyH 6156
b. Print and distribute										GbyyyH 6157
.25 Radiation in Mines CD										GbyyyH 6158
a. Acquire and evaluate new information										GbyyyH 6159
b. Submit document for 1st level review										GbyyyH 6160
c. Submit document for 2nd level review										GbyyyH 6161
d. Submit document for 3rd level review (1Q83)										GbyyyH 6162
e. Final document submitted to Director, NIOSH (2Q83)										GbyyyH 6163
.26 Asbestos (Mining) (CD)										GbyyyH 6164
a. Decide on analytical methods gaps										GbyyyH 6165
b. Develop risk assessment										GbyyyH 6166
c. Complete reviews										GbyyyH 6167
d. Complete Document (2Q83)										GbyyyH 6168
.27 Silica (Mining) (CD)										GbyyyH 6169
										GbyyyH 6170
										GbyyyH 6171
										GbyyyH 6172
										GbyyyH 6173
										GbyyyH 6174

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	P M F R E U O C N				RESOURCES	
	COMPLETION				NPF	TF
	FY I C	1Q	2Q	3Q	4Q	G H D PY \$1000 \$1000
a. Decide if task 3 can be performed			o			GbyyyH 6175
b. Identify personnel from within NIOSH to assist in the project			o			GbyyyH 6176
c. Complete a summary of health effects information				o		GbyyyH 6177
d. Complete 1st draft of a recommended standard				o		GbyyyH 6178
e. Complete external review					o	GbyyyH 6179
f. Submit for Division review					o	GbyyyH 6180
.28 Resource Recruitment						GbyyyH 6181
a. Identify candidates for 10 vacancies		7	3			GbyyyH 6182
b. Interview candidates for 10 vacancies		7	2	1		GbyyyH 6183
c. Make candidate selections		7	2	1		GbyyyH 6184
.29 Contracts for Document Development						GbyyyH 6185
a. Submit Technical Evaluation, Chromium			o			GbyyyH 6186
b. Submit Business Evaluation, Chromium			o			GbyyyH 6187
c. Award Task Order C, Chromium				o		GbyyyH 6188
d. Submit Technical Evaluation, Acrylic Acid, Esters			o			GbyyyH 6189
e. Submit Business Evaluation, Acrylic Acid, Esters			o			GbyyyH 6190
f. Award Task Order D, Acrylic Acid, Esters				o		GbyyyH 6191
.30 FY83 New Documents						GbyyyH 6192
a. Receive priority profile for four new Criteria Documents from PRAB				o		GbyyyH 6193
b. Submit literature search request to TIB					o	GbyyyH 6194
c. Receive literature search from TIB					o	GbyyyH 6195
e. Submit Director's draft to Director, NIOSH				o		GbyyyH 6196
						GbyyyH 6197
						GbyyyH 6198
						GbyyyH 6199
						GbyyyH 6200
						GbyyyH 6201
						GbyyyH 6202

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY				COMPLETION				P M F		R E U		O C H		G H D		PY		RESOURCES			
	I C		1Q	2Q	3Q	4Q											NPF	TF				
																	\$1000	\$1000				
14. Technical Information (T. Schoenborn 513-684-8326) (VSL-pyy-744 & 742)(100/VSL-Hyy-742)	70	C																			GdyyyH	6205
																					GdyyyH	6206
																					GdyyyH	6207
.1 Maintenance of Information Support Capabilities.																					GdyyyH	6208
a. Submit P.O. agreements for Non-Fedlink information services (FY-83).																					GdyyyH	6209
1. Interactive Sciences Corporation (ISC)																					GdyyyH	6210
2. Institute for Scientific Information (ISI)																					GdyyyH	6211
3. Chemical Abstracts (CA)																					GdyyyH	6212
b. Submit IA to Federal Library Committee (FLC) Fedlink for data base support (FY-83)																					GdyyyH	6213
1. Lockheed Information Service (LIS)																					GdyyyH	6214
2. Bibliographic Retrieval Service (BRS)																					GdyyyH	6215
3. Systems Development Corporation (SDC)																					GdyyyH	6216
4. New York Times Information Services (NYTIS)																					GdyyyH	6217
5. Politechs/EIES																					GdyyyH	6218
6. Research Library Info. Network (RLIN)																					GdyyyH	6219
7. Online Computer Library Center (OCLC)																					GdyyyH	6220
8. Mead Data Corp. (NEXIS)																					GdyyyH	6221
c. NTIS Interagency Agreement (30k)																					GdyyyH	6222
1. Send IA to OPPE																					GdyyyH	6223
2. Execute IA																					GdyyyH	6224
d. Transfer FY82 IA Funds (69.5k)																					GdyyyH	6225
.2 Technical Information Assistance																					GdyyyH	6226
																					GdyyyH	6227
a. Requests received from internal sources																					GdyyyH	6228
b. Requests completed for internal sources																					GdyyyH	6229
c. Requests received from external sources																					GdyyyH	6230
d. Requests completed for external sources																					GdyyyH	6231
e. Requests referred to other NIOSH staff																					GdyyyH	6232
.3 Current Awareness & Document Support Retrieval Services																					GdyyyH	6233
.4 Tracking of Data Base Usage																					GdyyyH	6234
a. % of funds used for Fedlink data bases																					GdyyyH	6235
b. % of funds used for non-Fedlink information services																					GdyyyH	6236
c. % of funds used for PCC costs																					GdyyyH	6237
.5 Evaluation of Information Services																					GdyyyH	6238
a. Develop Internal Evaluation Method in Cooperation with OPPE																					GdyyyH	6239
																					GdyyyH	6240
																					GdyyyH	6241
																					GdyyyH	6242
																					GdyyyH	6243
																					GdyyyH	6244
																					GdyyyH	6245
																					GdyyyH	6246
																					GdyyyH	6247
																					GdyyyH	6248
																					GdyyyH	6249
																					GdyyyH	6250

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY				P M F				RESOURCES			
	PLANNED		COMPLETION		R E U		O C N		NPF	TF		
	I	C	1Q	2Q	3Q	4Q	G	H	D	PY	\$1000	\$1000
b. Complete Evaluation Method				o							GdyyyH	6251
c. Complete Evaluation of Information Services						o					GdyyyH	6252
.6 External Dissemination											GdyyyH	6253
a. Exhibits											GdyyyH	6254
1. Provide information exchange via scientific conference			2	4							GdyyyH	6255
											GdyyyH	6256
											GdyyyH	6257
											GdyyyH	6258
2. Support exhibit staffed by other NIOSH staff			2	5	11	12					GdyyyH	6259
b. Publications Dissemination											GdyyyH	6260
1. Letter requests											GdyyyH	6261
											GdyyyH	6262
Domestic			9k	18k	24k	36k					GdyyyH	6263
											GdyyyH	6264
Foreign			1.5k	3k	4.5k	6k					GdyyyH	6265
											GdyyyH	6266
2. Telephone requests			700	1.4k	2.1k	2.8k					GdyyyH	6267
											GdyyyH	6268
3. Bulk and special requests			50k	100k	150k	200k					GdyyyH	6269
4. Inventory of NIOSH pub. warehouse						o					GdyyyH	6270
5. Distribution of Notices of Availability											GdyyyH	6271
											GdyyyH	6272
a. Internal			1	2	3	4					GdyyyH	6273
											GdyyyH	6274
b. External			1	2	3	4					GdyyyH	6275
											GdyyyH	6276
6. Update Mailing List			3	6	9	12					GdyyyH	6277
.7 Internal Information Services											GdyyyH	6278
a. Library											GdyyyH	6279
											GdyyyH	6280
1. Book cataloging & shelving/distribution			300	600	900	1.2k					GdyyyH	6281
											GdyyyH	6282
2. Serials check-in & distribution			3.0k	6.0k	9.0k	12k					GdyyyH	6283
											GdyyyH	6284
3. In-house requests for articles											GdyyyH	6285
a. Supplied in-house			1.0k	2.0k	3.0k	4.0k					GdyyyH	6286
											GdyyyH	6287
b. Supplied inter-library			600	1.2k	1.8k	2.4k					GdyyyH	6288
											GdyyyH	6289
c. Supplied for profiles			100	200	300	400					GdyyyH	6290
											GdyyyH	6291
d. Supplied for CIB's			75	150	225	300					GdyyyH	6292
											GdyyyH	6293
e. Supplied for Research Analysis			125	250	375	500					GdyyyH	6294
											GdyyyH	6295
f. Supplied for criteria documents			1.5k	3.0k	4.0k	5.0k					GdyyyH	6296

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY				PLANNED COMPLETION				P M F			RE U		O C N		RESOURCES	
	I	C	1Q	2Q	3Q	4Q	G	H	D	PY	\$1000	\$1000					
4. Number of translation requests completed				150		300											GdyyyH 6297
b. Acquisitions																	GdyyyH 6298
																	GdyyyH 6299
																	GdyyyH 6300
Acquisition of contract deliverables for Contract File			20	40	60	80											GdyyyH 6301
																	GdyyyH 6302
c. Conduct in-house information service seminars			2	4	6	8											GdyyyH 6303
d. Update information resources pamphlet						0											GdyyyH 6304
.8 Publication Distribution Contract																	GdyyyH 6305
a. Award Contract				0													GdyyyH 6306
b. Quarterly Reports Received					1	2											GdyyyH 6307
c. Submit Contract Renewal						0											GdyyyH 6308
.9 Purchase CIS/ILO Annual Microfiche File						0											GdyyyH 6309
.10 TRAINS (Translation Information System)																	GdyyyH 6310
a. Input translations			150	300	450	600											GdyyyH 6311
b. Provide searches			10	20	30	40											GdyyyH 6312
.11 Library Contract (if funds are available)																	GdyyyH 6313
a. Submit to Contracts Office			0														GdyyyH 6314
b. Award Contract						0											GdyyyH 6315
																	GdyyyH 6316
OFFICE OF THE DIRECTOR																	K H 6318
																	K H 6319
15. Information (D. Van Brunt, 443-2100)	81	81								H c a							KKyyyH 6320
(VAA-pXX-005)(100/VAA-pXX-005)																	KKyyyH 6321
																	KKyyyH 6322

WORK-FORCE DEVELOPMENT

The NIOSH mission established by the Occupational Safety and Health Act (Public Law 91-596) is two-fold in scope: Section 20 of the Act mandates the NIOSH research function, and Section 21 mandates the training and education function. Section 22 establishes and defines the Institute function to carry out the purposes of Sections 20 and 21. The Research Results Implementation Program is designed and developed to implement Section 21 of the Act by increasing the numbers and competence of the OSH work force.

NIOSH is set up primarily as a prevention-oriented research institute responsible for identifying occupational hazards, conducting research and field studies on these problems, and conveying the results to OSHA, MSHA, other Federal agencies, and the OSH professional community at large. Research-results implementation activities are based on the premise that research results and field study information are of limited value unless they are actually applied to the protection of workers. NIOSH as a research institute has two major objectives: to produce significant, valid information, and to get this information out to the workplace where it can be used to improve workplace conditions and protect the worker. The latter objective is a primary one because the research, no matter how good, cannot be effective until translated into action programs. This NIOSH program provides the mechanism for NIOSH research to be brought to bear upon prevention, intervening before worker exposure occurs.

This NIOSH program with its subactivities of technical training and education, curriculum development and technology transfer, manpower assessment, and educational resource development is an OSH hazard "prevention" program which meshes in with the DHHS agency-wide research-in-prevention initiative and, at the same time, carries out one of the two mandates of the NIOSH mission.

Division of Training and Manpower Development

Continuing Education -- NIOSH conducts technical training courses for the Department, for other Federal, State, and local government agencies, and for the private sector including OSH practitioners in industry, management representatives, and labor unions. Courses are provided to new NIOSH personnel for orientation and to existing staff members for maintenance of competence and career development.

In 1970, the Act established a tuition-free training program within NIOSH. Since 1973, the Institute's training program has been conducted on a reimbursable, self-sustaining basis. In FY 1974, the first year of reimbursable training, 50 courses were presented, 1,100 professionals were trained, and the

Institute realized over a quarter of a million dollars in tuition fees. The number of trainees trained directly by NIOSH steadily increased until 1977 when mechanisms were developed with outside organization to provide "indirect" training to meet the ever-increasing demand. The Educational Resource Center Grant Program contributed a large part to the indirect training efforts. In FY 1981, the ERC programs, coupled with the Institute's own direct training program, trained over 11,000 OSH practitioners.

In FY 1981, special customized training courses were presented to the U.S. Navy (Portsmouth, N.H.; Pearl Harbor; Guam), State of Colorado Industrial Commission, State of Nevada Workers' Compensation Board, DHHS's Office of Health and Safety, GSA, the American Foundrymen's Society, and the Foundry Workers Labor Union. In addition, cooperative training courses for NIOSH staff were conducted with three NIOSH office/divisions (OPPE, DSDTT, and DPSE). Also, a course on job stress factors and the hazards associated with the use of video display terminals was presented to State of New York white collar personnel by DTMD in conjunction with staff support from DBBS. Visitors from several foreign governments were received and training opportunities were explored and arrangements made to accommodate foreign students in future NIOSH and ERC-sponsored courses. The Vocational-Industrial Arts OSH Training Program, developed by NIOSH under an interagency agreement with OSHA, was presented by NIOSH staff and consultants in four regional locations.

In FY 1982, NIOSH will again offer a full schedule of short courses in industrial hygiene, occupational safety, industrial toxicology, occupational health nursing, and occupational medicine at the Cincinnati headquarters and in the field. Courses will be conducted by the direct mechanism using DTMD faculty supported by research division staffs and by the indirect mechanisms. ERC continuing education courses are expected to exceed 200. Special courses will be conducted for NIOSH personnel including environmental epidemiology and industrial hygiene for physicians (DSHEFS), respiratory protection quantitative fit testing for toxic effects inhalation study workers (DBBS), and training for NIOSH supervisory and clerical staff on VDT Workplace Hazards (presented jointly with DBBS). Specialized training to outside organizations will include State agencies and OSHA New Directions Grantees, labor unions, and the Federal sector, including MSHA, OSHA, and DHHS agencies. Special emphasis this year will be given to DOD, particularly the engineering disciplines and OSH officers. Training consultation to foreign governments and accommodation of foreign visitors in NIOSH courses will continue. The Pulmonary Function Testing Training Course Approval System will be maintained as required under the Cotton Dust Standard, and a system evaluation study will conclude with a final report in the fourth quarter. The vocational/industrial arts educational program will be expanded to other regions of the country through train-the-trainer sessions. An initiative in specialized, new technology training programs for industrial firms will incorporate the recent findings and recommendations of the NIOSH research divisions.

Curriculum Development -- The outputs of most research organizations are, by their specific nature, aimed at or appeal to a very limited audience. Furthermore, the reporting format is designed in a manner that meets the need for publication in technical journals. It is through the assimilation and correlation of facts and information produced through the Institute's research program that the OSH field more appropriately deals with the exposure of employees to hazards in the workplace. The curriculum development activity custom designs programs that present bodies of knowledge to meet the needs of various disciplines at varying levels of complexity. A train-the-trainer program to introduce and sensitize science teachers to the hazards of their working environment has resulted in the training of over 100,000 secondary school teachers in the last 3 years at a cost of little more than one dollar (\$1.00) per trainee. Not only has this program been extremely cost beneficial but its impact has resulted in major curriculum changes in recently published high school science texts. A series of audiovisual presentations on the problems of asbestos removal from school buildings was developed jointly with OSHA, EPA, and NCI. The series consisted of an overview of the problem, a program on personnel and medical monitoring, and a program on sample screening (Kupel-Kim Method). Over 1,000 copies of these programs were disseminated through NIOSH, EPA, and OSHA for loan in conducting contractor training sessions.

Several instructional modules were developed in FY 1981 that represent a direct relationship to NIOSH research output. One example is a video tape related to control technology assessment on the subject of pesticide formulation, a look at the state of the art, entitled "First Consideration." Another is a video tape about the problem of vibrating tools and the physical effects produced by these tools on workers and a discussion of the diagnostic procedures used in uncovering Reynaud's syndrome. Two slide/tape programs on occupational dermatoses, generally accepted to represent 50 percent of all occupationally related health problems, were disseminated, one designed for the health professional, the other for the lay person.

The major thrust again this year will be the development of educational materials in conjunction with the NIOSH research divisions based on significant research outputs and/or special training needs for their personnel. The activities proposed represent translation of current high-priority Institute research projects into easily utilizable information for dissemination to broader audiences than the audience for which most research reports are traditionally designed. The impact of this plan should be such that the necessary changes will be made in hazardous workplace situations jointly by management and worker representatives to eliminate or reduce the potential of workers to injury and illness.

Educational Resource Development--The OSH Act calls for an adequate supply of resources; i.e., qualified personnel and educational/informational programs to carry out the purposes of the Act. The educational resource development activity investigates and employs strategies and mechanisms to assess these resource requirements and continually evaluates current programs. Ongoing assessment of OSH professionals identifies trends toward and gaps between manpower needs and supply/demand. A primary use for this information to more effectively utilize Institute funding and expertise is to foster and support educational and training programs in the academic and non-Federal sectors.

Over the past 4 years, the Institute has conducted research investigations relating to manpower supply and demand. Since the early 1970s, NIOSH training grants have provided a progressively increasing pipeline of highly qualified graduates to serve as educators, researchers, or practitioners in the OSH field. Numerous other institutions received NIOSH non-financial assistance to develop new educational programs. Since 1977 ERC outreach activities to new, emerging programs have been significantly increased. NIOSH has a continuing program of promoting the OSH field as a career choice to pre-baccalaureate students as well as to workers who are seeking early or mid-career change. Career brochures, academic program directories, continuing education schedules, and the like are distributed widely to support guidance counseling and recruitment efforts.

In FY 1982, the Institute will continue to administer and monitor all training grants, including the twelve ERCs. The OSH Labor Market Contract awarded in FY 1981 will be monitored and completed. The educational consultation and technical assistance to academic and similar institutions will continue both intramurally and through ERC outreach programs. Special consideration will be given to investigation of alternative funding sources for educational programs. The NIOSH OSH Career Guidance and Information Service also will continue. A symposium on occupational health nursing will be designed and conducted in joint sponsorship with NIOSH research divisions and ERC nursing programs. The efforts to impact key non-OSH professionals and disciplines through their educational systems will continue with programs designed to influence schools of engineering and schools of business. As a followup to the self-evaluation instrument for the electric power industry, a research study will be initiated jointly with DBBS to determine the effect of training and other influences on work practices and hazard occurrences in a public utility.

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY	I	C	PLANNED COMPLETION				P M F R E U O C N				PY	RESOURCES	
				1Q	2Q	3Q	4Q	G	H	D			NPF	TF
													\$1000	\$1000
*****WORK FORCE DEVELOPMENT*****													K	6325
													K	6326
DIVISION OF TRAINING AND MANPOWER DEVELOPMENT													H	K 6327
													R	K 6328
1. Continuing Education (E. Leininger 684-8228)	71	C						K	b	a			HayyyK	6330
(VUI-210-792) (6.9/66/364)(100/VUI-Kyy-792)													HayyyK	6331
													HayyyK	6332
.1 Maintain Institute's direct training program													HayyyK	6333
.a Present Industrial Hygiene programs				7	14	20	24						HayyyK	6334
.b Present Occupational Safety programs					1	4	7						HayyyK	6335
.c Present Occupational Health Nursing program						1							HayyyK	6336
.2 Coordinate and Support ERC Continuing Education Programs													HayyyK	6337
.a Publish ERC Course Schedules				1		2							HayyyK	6338
.b Conduct Annual Meeting of ERC Continuing Education Coordinators					o								HayyyK	6339
.c Provide on-site assistance				o	o	o	o						HayyyK	6340
.3 Provide training to other NIOSH Divisions													HayyyK	6342
.a Provide Environmental Epidemiology Course to DSHEFS (North Carolina ERC)				o									HayyyK	6343
.b Provide Industrial Hygiene Training to DSHEFS Physicians							o						HayyyK	6344
.c Provide Respiratory Protection quantitative fit testing training to DBBS staff					o	o							HayyyK	6345
.d Provide training on VDT hazards to NIOSH staff (Joint with DBBS)					o		o						HayyyK	6346
													HayyyK	6347
													HayyyK	6348
													HayyyK	6349
.4 Provide training to outside organizations													HayyyK	6350
.a Present courses to State Agencies and New Direction Grantees							o						HayyyK	6351
.b Present courses to Federal Agencies							o						HayyyK	6352
.5 Provide training support to foreign governments				o	o	o	o						HayyyK	6353
.6 Administer the Pulmonary Function Testing Training Course Approval Program													HayyyK	6354
.a Review and Approve/Disapprove Applications				o	o	o	o						HayyyK	6355
.b Evaluate Course Approval System													HayyyK	6356
.1 Monitor contract; review contractor reports				o	o	o							HayyyK	6357
.3 Receive Final Report							o						HayyyK	6358
.7 Continue vocational/industrial arts occupational safety and health program for secondary school teachers ((Joint with OSHA)													HayyyK	6359
.a Provide assistance to 4 regions for presentation of courses				1	2	3	4						HayyyK	6360
													HayyyK	6361
													HayyyK	6362
													HayyyK	6363
.8 Conduct specialized training for industry													HayyyK	6364
.a Present training courses				o	o	o	o						HayyyK	6365
													HayyyK	6366
													HayyyK	6367
													HayyyK	6368

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I C	PLANNED 1Q	COMPLETION 2Q	3Q	4Q	P M F R E U O C N G H D	PY	RESOURCES	
								NPF	TF
								\$1000	\$1000
2. Materials Development (N.J. Berberich 684-8241) (VUH-211-782)(11/490/750)(100/VUH-Kyy-782)	76	C				K b a			
.1 Develop a continuing educational program on the hazards of confined spaces entry. (DSR)								HbyyyK	6371
.a Review existing document and preliminary planning report								HbyyyK	6372
.b Complete development instructional program materials (1QFY83).								HbyyyK	6373
.c Pilot test program at several sites with at least 3 different target audiences (4QFY83)								HbyyyK	6374
.d Assess the pilot test program (1QFY84)								HbyyyK	6375
.e Present final course package to Director DTMD (2QFY84)								HbyyyK	6376
.2 Develop an instructional program on the problems related to disposal of hazardous wastes (DPSE, DSHEFS)								HbyyyK	6377
.a Complete review existing materials; submit course outline to Director DTMD for P.O.I.								HbyyyK	6378
.b Complete development of instructors outline								HbyyyK	6379
.c Complete student text(s) (1QFY83)								HbyyyK	6380
.d Pilot Test (3QFY83)								HbyyyK	6381
.e Present final course package to Director DTMD (4QFY83)								HbyyyK	6382
.3 Develop continuing educational program--Engineering control of the occupational health hazards in the dry cleaning industry. (DPSE)								HbyyyK	6383
.a Develop instructional materials								HbyyyK	6384
.b Pilot presentation								HbyyyK	6385
.c Complete instructors resource guide								HbyyyK	6386
.d Train-the-Trainer Session (1QFY83)								HbyyyK	6387
.4 Develop and update academic courses for upper level undergraduate engineering students. (DPSE)								HbyyyK	6388
.a Develop and present new course at Purdue University								HbyyyK	6389
.b Update present course and present at Ohio State University								HbyyyK	6390
.c Develop cooperative program with other schools of engineering								HbyyyK	6391
.5 Design and develop an advanced course on respiratory protection. (DSR)								HbyyyK	6392
.a Complete review content of existing course								HbyyyK	6393
.b Develop instructors outline								HbyyyK	6394
.c Complete Student Text								HbyyyK	6395
.d Pilot test								HbyyyK	6396
.e Present final course to Director DTMD (1QFY83)								HbyyyK	6397
.6 Complete development of a series of audiovisual modules reflecting current research outputs of NIOSH								HbyyyK	6398
.a Hazards associated with spray painting and coating (DPSE)								HbyyyK	6399
.b Hazards associated with R.F. heaters and sealers (DBBS)								HbyyyK	6400
.c Recommendations on working at V.D.T. (DBBS)								HbyyyK	6401
.d Problems of disposal of Hazardous Wastes materials and								HbyyyK	6402
								HbyyyK	6403
								HbyyyK	6404
								HbyyyK	6405
								HbyyyK	6406
								HbyyyK	6407
								HbyyyK	6408
								HbyyyK	6409
								HbyyyK	6410
								HbyyyK	6411
								HbyyyK	6412
								HbyyyK	6413
								HbyyyK	6414
								HbyyyK	6415
								HbyyyK	6416

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY				PLANNED COMPLETION				P M F		R E U		O C N		G H D		PY		RESOURCES			
	I C		1Q		2Q		3Q		4Q										NPF	TF		
																			\$1000	\$1000		
dump cleanups (DPSE)																					HbyyyK	6417
.e Assessing reproductive hazards in the workplace (DBBS, DSHEF)																					HbyyyK	6418
																					HbyyyK	6419
.f Correlation of industrial hygiene and engineering careers (DPSE)																					HbyyyK	6420
																					HbyyyK	6421
.7 Revision of NIOSH syllabus and other curriculum materials																					HbyyyK	6422
.a Submit draft materials from contractors to review panel																					HbyyyK	6423
.b Select contractors for revision of existing units in text (1QFY83)																					HbyyyK	6424
																					HbyyyK	6425
.c Review draft materials																					HbyyyK	6426
.d Submit revised materials for printing (1QFY84)																					HbyyyK	6427
																					HbyyyK	6428

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY				PLANNED COMPLETION				P M F R E U O C N			RESOURCES	
	I C		1Q	2Q	3Q	4Q	G H D	PY	NPF TF			\$1000	\$1000
3. Educational Resource Development (T. Purcell 684-8240) (VUE-212-772)(4.0/12666/9798) (100/VUE-sXy-722) (100/VUE-Kyy-773)	79	C							K e a			HcyyyK	6431
												HcyyyK	6432
												HcyyyK	6433
												HcyyyK	6434
.1 Administer Training Grant Program												HcyyyK	6435
.a Award continuation training grants (3QFY81)												HcyyyK	6436
.b Monitor Educational Resource Centers			3	6	9	12						HcyyyK	6437
.c Monitor Training Project Grants			3	6	9	13						HcyyyK	6438
.d Prepare Annual Trainee Statistical Report and incorporate in 4th Quarter Progress Report and Annual Report to Congress						0						HcyyyK	6439
												HcyyyK	6440
.2 Conduct Occupational Safety and Health Labor Market Survey												HcyyyK	6442
.a Award contract (4QFY81)												HcyyyK	6443
.b Receive and review technical reports			1	2	3							HcyyyK	6444
.c Receive and review Final Report						0						HcyyyK	6445
.d Transmit abstract of Final Report to Director, NIOSH and copy of report to DTS												HcyyyK	6446
												HcyyyK	6447
.3 Provide consultation and technical assistance to academic institutions												HcyyyK	6448
												HcyyyK	6449
.a Contact academic institutions			1	2	3	4						HcyyyK	6450
.b Initiate OSH Programs				1		2						HcyyyK	6451
.4 Administer OSH Career Information Service												HcyyyK	6452
.a Respond to all inquiries received within a two-week period			0	0	0	0						HcyyyK	6453
			0	0	0	0						HcyyyK	6454
.b Distribute career guidance materials			0	0	0	0						HcyyyK	6455
.5 Conduct Symposium on Occupational Health Nursing: Practices, Research, and Education (Joint with Research Divisions)												HcyyyK	6456
			0									HcyyyK	6457
.a Identify Symposium Steering Committee			0									HcyyyK	6458
.b Initial Steering Committee Meeting to define objectives and agenda topics			0									HcyyyK	6459
			0									HcyyyK	6460
.c Select session chairman and invited speakers			0									HcyyyK	6461
.d Prepare Conference Management RFC			0									HcyyyK	6462
.e Award Contract				0								HcyyyK	6463
.f Receive reports from contractor concerning facilities and hotel arrangements, speaker confirmation, registrations, etc.					0	0						HcyyyK	6464
												HcyyyK	6465
.g Present Symposium						0						HcyyyK	6466
.h Prepare Symposium Proceedings (1QFY83)												HcyyyK	6467
.6 Develop OSH Programs to Enhance Engineering Education												HcyyyK	6468
.a Develop academic programs												HcyyyK	6469
.1 Initiate contact with engineering schools			1	2	3	4						HcyyyK	6470
.2 Develop cooperative arrangements to incorporate instructional materials within engineering curricula					1	2						HcyyyK	6471
												HcyyyK	6472
.b Develop specific interest in technical and professional engineering societies												HcyyyK	6473
												HcyyyK	6474
.1 Present paper on occupational safety and health			0									HcyyyK	6475
												HcyyyK	6476

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY				COMPLETION				P M F			RESOURCES	
	I C		1Q 2Q		3Q 4Q		O C N		R E U		PY	NPF	TF
	I	C	1Q	2Q	3Q	4Q	G	H	D			\$1000	\$1000
engineering education at annual meeting of American Institute of Chemical Engineers												HcyyyK	6477
												HcyyyK	6478
.2 Serve as Program Chairman, Environmental Engineering Division, American Society for Engineering Education for session on OSH engineering education at 1982 annual conference												HcyyyK	6479
												HcyyyK	6480
												HcyyyK	6481
												HcyyyK	6482
.3 Initiate contact with technical societies to promote interest												HcyyyK	6483
												HcyyyK	6484
.c Conduct engineering control technology workshops												HcyyyK	6485
.1 Publish proceedings of 2nd workshop												HcyyyK	6486
.2 Develop position papers for 3rd workshop												HcyyyK	6487
.3 Conduct 3rd workshop (1QFY83)												HcyyyK	6488
.7 Determination of Effects of Training and other Factors on Work Practices in Electric Utility Industry (Joint with DBBS)												HcyyyK	6489
												HcyyyK	6490
.a Identify worker population												HcyyyK	6491
.b Administer self-assessment instruments												HcyyyK	6492
.c Correlate pre/post test results with safety/accident/injury data												HcyyyK	6493
												HcyyyK	6494
.d Recommend appropriate training, education and information programs to correct deficiencies in workers skill, performance and knowledge levels												HcyyyK	6495
												HcyyyK	6496
												HcyyyK	6497
												HcyyyK	6498
.8 Develop OSH Programs with Schools of Business												HcyyyK	6499
.a Develop cooperative arrangements with National Safety Management Society												HcyyyK	6500
.b Initial contact with academic business programs												HcyyyK	6501
.c Prepare report on status of and recommendations for OSH content in business school curricula												HcyyyK	6502
												HcyyyK	6503
												HcyyyK	6504

ADMINISTER INSTITUTE PROGRAMS

NIOSH's goal, to Administer Institute Programs, is the process for providing the means for setting and meeting Institute objectives. Under this goal NIOSH manages direct research and intervention "to ensure, insofar as possible, every working man and women in the Nation both safe and healthful working conditions and to preserve our human resources." The means for reaching this end include facilities, funds, and people, and a system of planning, coordination, administration, and accountability for these resources.

ADMINISTRATION OF INSTITUTE PROGRAMS

Office of the Director, NIOSH

The Office of the Director, in providing management leadership for the National Institute for Occupational Safety and Health, plans, directs, and coordinates the national program to develop and establish recommended OSH standards and to conduct research, training, technical assistance, and related activities to ensure safe and healthful working conditions for working men and women.

Each NIOSH office/division carries out related functions to respond to the administrative needs of NIOSH, and to manage its own resources. Administrative functions of the individual office/divisions include development and implementation of their individual policies, ensuring adherence to NIOSH policies and goals, and establishing priorities in, and management of, their projects within the various program areas. Each office/division also supports the others with its specialized expertise as needed, and several provide support services to the entire Institute.

Office of Administrative Management Services

OAMS supports the total Institute with services including finances; personnel activities; procurement and control of properties, equipment, and services; establishment of policies and procedures; and technical leadership and guidance.

Office of Program Planning and Evaluation

OPPE plans and coordinates the development of the strategy and philosophy of operation of the Institute regarding mission and objectives, conducts policy analyses, conducts or participates in special studies for program planning and evaluation, and conducts the necessary control functions to ensure operational compliance toward program objectives within the Institute. Program planning will be developed to provide adequate control over resources and performance. OPPE will develop a project management system to evaluate variances in cost and technical performance as well as variances in project scheduling. Program review will be tailored to monitor and analyze these variances. Program planning also will be based on opportunities to intervene in economic, legal, and technical processes to prevent hazards in the workplace. Policy analysis will provide baseline information on these processes and permit special assessment of possible intervention targets.

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY				P M F				RESOURCES	
	PLANNED COMPLETION				R E U				NPF TF	
	I	C	1Q	2Q	3Q	4Q	G	H	D	PY
*****ADMINISTRATION OF INSTITUTE PROGRAMS*****										
DIVISION OF BIOMEDICAL AND BEHAVIORAL SCIENCE										
1. Administration of DBBS Activities (B. Johnson, 684-8465) (100/VOA-Wyy-303)(100/V00-Wyy-348)(100/VOB-Wyy-284) (100/VOG-Wyy-355)(100/VOT-Wyy-390)	82	82					W	c	a	
.1 Submit Quarterly Program Progress Reports			o	o	o	o				
.2 Personnel Evaluations										
a. Completion of evaluations for 80 (approx.) Civil Servants				o		o				
b. Completion of evaluations for 18 Commissioned Officers				o		o				
.3 Receive final report and submit report to Director, NIOSH for 0 completed projects										
.4 Receive final report and submit report to Director, NIOSH for 21 projects to be completed this year										
a. Machine-Paced Stress in Postal Workers						o				
b. Neurotoxicity of Ethylene & Propylene Oxide					o					
c. Whole Body Vibration: Health Effects					o					
d. Phase Shifts and Stressor Effects										
e. Behavioral-Ergonomic Support for HHEs						o				
f. Fibrogenicity & Pulmonary Carcinogenesis				o						
g. Carcinogenicity of Aromatic Amines-Azo Dyes						o				
h. Inhalation Toxicity of Organic Oxides						o				
i. Chronic Toxicity of Insulation Materials						o				
j. Metabolism of Azo Dyes to Aromatic Amines			o							
k. Clinical-Biochemical Support Service						o				
l. Diagnostic & Research Pathology Services						o				
m. Particulate and Tissue Analysis Support						o				
n. Animal Husbandry Support Service						o				
o. Inhalation Toxicology Service and Research						o				
p. Clinical Chemistry Service and Research Support-HHEs						o				
q. Impact-Impulse Noise Data Base						o				
r. Work Practices for Vibration Reduction						o				
s. RF/Microwave Dosimetry Development						o				
t. Health Hazard Evaluations of Physical Agents						o				
.5 Accumulated spending of non-personnel funds by organizational unit and Program by quarter for the Fiscal Year. (k)			x.xk	x.xk	x.xk	x.xk				
a. Office of the Director										
b. Applied Psychology and Ergonomics Branch										
c. Experimental Toxicology Branch										

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY				PLANNED COMPLETION				P M F			RESOURCES	
	I C		1Q 2Q		3Q 4Q		O C N		R E U		PY	NPF TF	
	I	C	1Q	2Q	3Q	4Q	G	H	D			\$1000	\$1000
d. Physical Agents Effects Branch												AAyyyW	6554
e. Technical Support Branch												AAyyyW	6555
f. Neurotoxic Effects												AAyyyW	6556
g. Stress-Related Disorders												AAyyyW	6557
h. Reproductive Effects												AAyyyW	6558
i. Standards Development												AAyyyW	6559
j. Injury/Trauma												AAyyyW	6560
k. Physical Agents												AAyyyW	6561
l. Health Hazard Evaluations												AAyyyW	6562
m. Cardiovascular Disorders												AAyyyW	6563
n. Cancer												AAyyyW	6564
o. Cutaneous Disorders												AAyyyW	6565
p. Instrument/Methods Development												AAyyyW	6566
q. Lung Disorders												AAyyyW	6567
r. All Others												AAyyyW	6568
s. Other Personal Protective Equipment												AAyyyW	6569
t. Administration of Institute Programs												AAyyyW	6570
.7 Review DBBS Safety Committee Report			o	o	o	o						AAyyyW	6571
.8 Conduct Q. A. audits of research projects			3	6	9	12						AAyyyW	6572
.9 Submit progress report to NTP			o	o	o	o						AAyyyW	6573
.10 Review DBBS projects with other Divisions			o	o	o	o						AAyyyW	6574
.11 Conduct review of HHE/TA activities			o	o	o	o						AAyyyW	6575
.12 Conduct NTP Working Group meeting			o	o	o	o						AAyyyW	6576
.13 Provide statistical consultation			8	16	24	32						AAyyyW	6577
.14 Submit final report to Director, NIOSH						o						AAyyyW	6578
												AAyyyW	6579
												AAyyyW	6580
												AAyyyW	6581
												AAyyyW	6582
												AAyyyW	6583
												AAyyyW	6584
												AAyyyW	6585
												AAyyyW	6586
												AAyyyW	6587
												AAyyyW	6588
												AAyyyW	6589
												AAyyyW	6590
												AAyyyW	6592
												AAyyyW	6593
												AAyyyW	6594
												AAyyyW	6595
												AAyyyW	6596

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	P M F				R E U		O C N		RESOURCES	
	FY				PLANNED COMPLETION					
	I	C	1Q	2Q	3Q	4Q	G	H	D	PY
DIVISION OF PHYSICAL SCIENCES AND ENGINEERING										
2. Administrative Support for DPSE Research (W. Haag 684-4321) (VQA-uXy-402)(100/VQA-Wyy-402)	82	82					W	g	a	
.1 Quarterly Program Review			o	o	o	o				B W 6599
.2 Personnel Evaluations										B W 6600
a. Complete evaluation CO personnel			o							BByyyW 6601
b. Complete evaluation CS personnel					o					BByyyW 6602
.3 Accumulate spending of nonpersonnel funds by organiza-										BByyyW 6603
tional unit and program by quarter*			o	o	o	o				BByyyW 6604
.4 Submit quarterly EEO report			o	o	o	o				BByyyW 6605
.5 Receive and submit final report for FY81 completed projects			3	7						BByyyW 6606
.6 Receive and submit reports to Director, NIOSH, for projects			o	o	o	16				BByyyW 6607
to be completed in FY82										BByyyW 6608
										BByyyW 6609
										BByyyW 6610
										BByyyW 6611
										BByyyW 6612
										BByyyW 6613
										BByyyW 6614

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY				P M F				RESOURCES	
	PLANNED COMPLETION				R E U				NPF TF	
	I	C	1Q	2Q	3Q	4Q	G	H	D	PY
DIVISION OF RESPIRATORY DISEASE STUDIES										
3. Office of the Director-Division Management (Merchant J 304 599-7474)(VKA-vDp-103)(100/VCC-Wbd-103)	81	C					W	b	b	
.1 Personnel evaluations										C W 6617
a. Complete COEPR evaluations for Commissioned Corp personnel			o							C W 6618
b. Complete evaluations for Civil Service personnel					o					CCmyyW 6619
.2 Receive American College of Radiology (210-81-2101-JC) quarterly reports			o	o	o	o				CCmyyW 6620
.3 Submit report to NIOSH EEO Officer			o	o	o	o				CCmyyW 6621
.4 Monitor timely distribution of Division non-personnel funds by Branch (cumulative x 1000)										CCmyyW 6622
a. OD			()	()	()	()				CCmyyW 6623
b. LIB			()	()	()	()				CCmyyW 6624
c. CIB			()	()	()	()				CCmyyW 6625
d. EPI			()	()	()	()				CCmyyW 6626
e. EIS			()	()	()	()				CCmyyW 6627
f. EPB			()	()	()	()				CCmyyW 6628
.5 Monitor submission of Division RFC's to contracts office										CCmyyW 6629
a. ACR-210-81-2101 incremental funding				o						CCmyyW 6630
b. Task Order Data Processing 210-81-1010				o						CCmyyW 6631
c. Case Location Services-New contract			o							CCmyyW 6632
d. Renew IA NIOSH/SSA			o							CCmyyW 6633
e. Renew IA NIOSH/IRS			o							CCmyyW 6634
f. Renew IA NIOSH/NCHS			o							CCmyyW 6635
g. Task Order Data Entry-Programming (MSB)			1	2	3	4				CCmyyW 6636
h. Phthalic Anhydride-Laboratory Assessment					o					CCmyyW 6637
i. IA Component Emission Measurements			o							CCmyyW 6638
j. Synfuel Process Technical Review			o	o						CCmyyW 6639
k. Demonstration Plant Design-Review			o							CCmyyW 6640
l. Body Fluids Bioassay Task Order-Gasification			o	o	o					CCmyyW 6641
m. Body Fluid Bioassay Task Order-Liquefaction			o	o						CCmyyW 6642
n. Cytogenic Screening-Liquefaction			o	o						CCmyyW 6643
o. Technical Support IA-Oil Shale			o	o						CCmyyW 6644
p. Society Occupational Environmental Health (103)			o							CCmyyW 6645
q. American College of Chest Physicians (103)			o	o						CCmyyW 6646
r. Institute of Occupational Medicine (189)			o							CCmyyW 6647
.6 Provide technical monitoring to NIOSH grants										CCmyyW 6648
a. Occupational Cause of Pulmonary Fibrosis (992)										CCmyyW 6649
S.A. Olenchock			o	o	o	o				CCmyyW 6650
b. Antigens for Detecting Industrial Hypersensitivity (865)										CCmyyW 6651
S.A. Olenchock			o	o	o	o				CCmyyW 6652
.7 Monitor project peer review			o	o						CCmyyW 6653
.8 Receive final reports from DRDS FY81 projects and submit										CCmyyW 6654
										CCmyyW 6655
										CCmyyW 6656
										CCmyyW 6657
										CCmyyW 6658
										CCmyyW 6659
										CCmyyW 6660
										CCmyyW 6661
										CCmyyW 6662

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY	I	C	1Q	2Q	3Q	4Q	G	H	D	PY	RESOURCES	
												NPF	TF
												\$1000	\$1000
DIVISION OF SURVEILLANCE, HAZARD EVALUATIONS AND FIELD STUDIES													
4. Technical Management (DSHEFS) (Phil Landrigan 513-684-2427) (14.0/100.0/500.0)(100/VMA-Wyy-522)(100/VMR-Wyy-680)	81		C							W	g a		
A. Extend case location contract												D	W 6670
B. Extend computer contracts.												D	W 6671
C. Conduct/project progress reviews.												DDyyyW	6672
D. Develop program and project plans for the next fiscal year in compliance with NIOSH planning guidance.												DDyyyW	6673
E. Review and stimulate training including long-term training for Division/Office staff.												DDyyyW	6674
F. Assist local Administrative Officer in areas including energy conservation, space, safety and health problems, equipment utilization, etc.												DDyyyW	6675
G. Provide requests for contract action to OAMS as approved in annual program and project plans.												DDyyyW	6676
H. Review contract monitoring with Branch on quarterly basis. Identify problem areas and consult with contracting officer.												DDyyyW	6677
I. Develop annual merit pay plans.												DDyyyW	6678
J. Review progress on merit pay plans.												DDyyyW	6679
K. Nominate O/D staff for awards.												DDyyyW	6680
L. Complete CS performance evaluations.												DDyyyW	6681
M. Complete Commissioned Officer evaluations.												DDyyyW	6682
N. Conduct staff meetings with Branch Chiefs.												DDyyyW	6683
O. Review monthly status of funds for all projects generally and the O/D as an organization.												DDyyyW	6684
P. Report EEO activities quarterly, i.e. recruitment, career development, etc.												DDyyyW	6685
Q. Complete Division portion of Annual Report.												DDyyyW	6686
R. Complete final reports.												DDyyyW	6687
2. Case comparison study of parental employment												DDyyyW	6688
3. NOHS-II Survey Manual												DDyyyW	6689
4. NOHS-II Sample Design Report												DDyyyW	6690
5. NOHS-II Data Editing Report												DDyyyW	6691
6. Registry-based occupational cancer surveillance												DDyyyW	6692
7. Disability Survey - 1st strategy report												DDyyyW	6693
8. Disability Survey - occ. charac. '75-'76												DDyyyW	6694
9. Disability Survey - disability '69-76												DDyyyW	6695
10. Disability Survey - 2nd strategy report												DDyyyW	6696
11. Occupational Mortality in Washington State												DDyyyW	6697
12. Information dissemination models - reproductive												DDyyyW	6698
13. Information dissemination models - synergistic												DDyyyW	6699
14. Material locator system												DDyyyW	6700
15. Poison control centers												DDyyyW	6701
16. Abrasive blasting												DDyyyW	6702
												DDyyyW	6703
												DDyyyW	6704
												DDyyyW	6705
												DDyyyW	6706
												DDyyyW	6707
												DDyyyW	6708
												DDyyyW	6709
												DDyyyW	6710
												DDyyyW	6711
												DDyyyW	6712
												DDyyyW	6713
												DDyyyW	6714
												DDyyyW	6715

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY				P M F				RE U		RESOURCES	
	PLANNED COMPLETION				O C N				NPF TF			
	I C	1Q	2Q	3Q	4Q	G H D	PY	\$1000	\$1000			
17. Uranium enrichment					o					DDyyyW	6716	
18. Uranium millers			o							DDyyyW	6717	
19. Uranium miners				o						DDyyyW	6718	
20. TEL - Ind. Hyg.		o								DDyyyW	6719	
21. New Agents-III (Paraquat)				o						DDyyyW	6720	
22. New Agents-III (Vanadium)					o					DDyyyW	6721	
23. Formaldehyde - Ind. Hyg.					o					DDyyyW	6722	
24. Tanning - Ind. Hyg. (Vegetable)			o							DDyyyW	6723	
25. Automotive Wood Die (ind. Hyg)		o								DDyyyW	6724	
26. Version D Life Table			o							DDyyyW	6725	
27. Ind. Epid. Exercises				o						DDyyyW	6726	
28. Worker notification					o					DDyyyW	6727	
29. Pulp and paper - Mort.		o								DDyyyW	6728	
30. Pulp and paper - ind. hyg.					o					DDyyyW	6729	
31. Dow case control study					o					DDyyyW	6730	
32. Health Hazard Evaluations		125	250	375	500					DDyyyW	6731	
33. Biological hazards				o						DDyyyW	6732	
S. Criteria Documentation, Standards Support and Research Grants										DDyyyW	6733	
1. Evaluate and participate on research grants.		5	10	15	20					DDyyyW	6734	
2. Submit RFA's for research grants to DECSP.		1	2	3	4					DDyyyW	6735	
3. Complete input to criteria documents, CIB's, etc.		2	4	6	8					DDyyyW	6736	
4. Complete support to OSHA and MSHA for hearings, etc.		1	2	3	4					DDyyyW	6737	
5. Complete support and testimony for congressional hearings.		1	2	3	4					DDyyyW	6738	
T. Quarterly projections of person-years.		48.8	97.6	146	195					DDyyyW	6739	
U. Quarterly projections of free funds.		2.5k	3.5k	4.4k	5.2k					DDyyyW	6740	
										DDyyyW	6741	
										DDyyyW	6742	
										DDyyyW	6743	
										DDyyyW	6744	
										DDyyyW	6745	
										DDyyyW	6746	
										DDyyyW	6747	
										DDyyyW	6748	

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY				PLANNED COMPLETION				P M F R E U O C N			RESOURCES NPF TF	
	I	C	1Q	2Q	3Q	4Q	G	H	D	PY	\$1000	\$1000	
DIVISION OF SAFETY RESEARCH													E W 6751
5. Testing and Certification Branch Management (Campbell 923-7331) (VLI-mbp-852)(5.0/200.0/350.0)(100/VEd-Wyy-852)	72	C								W a a			E W 6752
.1 Prepare and submit for publication revised certified equipment list						o							EdyyyW 6753
.2 Issue approvals, denials, stop sales, and recalls			37	74	111	148							EdyyyW 6754
.3 Summary report on certification issues						o							EdyyyW 6755
.4 Complete 100% of rewrite of administrative portion of CFR 11 and submit to Director, DSR				o									EdyyyW 6756
.5 Receive Phase II laboratory modification approval for respirator research and field investigation program from OD			o										EdyyyW 6757
.6 Complete draft of systems manual defining the operating procedures for evaluation and certification of respirators						o							EdyyyW 6758
.7 Submit recommendations regarding the inactivation, termination or reactivation of sound level meter program			o										EdyyyW 6759
6. Safety Division Management (Oppold 923-7595) (VLA-vpb-802)(8.0/250.0/490.0)(100/VEE-Wyy-802)	77	C								W c a			EdyyyW 6760
.1 Personnel Evaluations													EEyyyW 6761
a. Completion of evaluations for 54 civil service personnel						o							EEyyyW 6762
b. Completion of evaluations for 17 commissioned officers						o							EEyyyW 6763
.2 All hands briefing meetings			o	o	o	o							EEyyyW 6764
.3 Nominate appropriate staff for recognition at Annual Award Ceremony.			o										EEyyyW 6765
.4 Submit EEO report to NIOSH EEO Officer			o	o	o	o							EEyyyW 6766
.5 Receive final reports and submit reports to Director, NIOSH for projects to be completed this year.													EEyyyW 6767
a. Safety Surveillance Branch			1	3	5	10							EEyyyW 6768
b. Accident and Injury Epidemiology Branch			o	1	8	9							EEyyyW 6769
c. Standards and Consultation Branch			1	1	1	7							EEyyyW 6770
d. Testing and Certification Branch			o	o	4	6							EEyyyW 6771
.6 Spend Non-Personnel funds--(allocations by Branch X 1000)													EEyyyW 6772
a. Office of Director			48	100	152	200							EEyyyW 6773
b. Safety Surveillance Branch			22	346	379	565							EEyyyW 6774
c. Accident and Injury Epidemiology Branch			75	104	133	138							EEyyyW 6775
d. Standards and Consultation Branch			38	74	262	289							EEyyyW 6776
e. Testing and Certification Branch			590	752	995	.1k							EEyyyW 6777

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY				PLANNED COMPLETION				P M F R E U O C N			RESOURCES	
	I C		1Q	2Q	3Q	4Q	G H D	PY	NPF TF			\$1000	\$1000
OFFICE OF EXTRAMURAL COORDINATION AND SPECIAL PROJECTS												F W	6797
												F W	6798
7. NIOSH Extramural Coordination and Special Projects (Bridbord, 443-6437)	76	C							W c a			FFyyyW	6799
(VCA-uXy-873) (5.4/0.135/0.302) (100/VCA-Wyy-873)												FFyyyW	6800
												FFyyyW	6801
												FFyyyW	6802
.1 Perform Institute Extramural Coordination												FFyyyW	6803
a. Represent Institute on Intra-and Inter-agency Committees												FFyyyW	6804
National Commission on Cancer, Heart and Lung Disease												FFyyyW	6805
HHS Digestive Diseases Coordinating Committee												FFyyyW	6806
Committee to Coordinate Environmental and Related Programs												FFyyyW	6807
White House Task Force on Pain												FFyyyW	6808
Ad Hoc Working Group on Dermatology												FFyyyW	6809
1990's Task Forces												FFyyyW	6810
Smoking Task Force												FFyyyW	6811
b. Human Subjects Review Board (HSRB)												FFyyyW	6812
Hold meetings of NIOSH Human Subjects Review Board												FFyyyW	6813
c. Interagency Agreements												FFyyyW	6814
.01 Transfer funds accordingly as spelled out in AFIP Agreement												FFyyyW	6815
.02 Complete agreement with EPA for National Commission on Cancer, Heart and Lung Diseases and transfer funds accordingly												FFyyyW	6816
.2 Special Projects												FFyyyW	6817
a. Hold Fourth Annual NIOSH Scientific Symposium (Continuing Education Courses)												FFyyyW	6818
b. Develop plans for Fifth Annual NIOSH Scientific Symposium												FFyyyW	6819
c. Hold Occupational Medicine Conference for NIOSH EIS Officers and other staff												FFyyyW	6820
d. Participate in CDC EIS Conference												FFyyyW	6821
e. Develop paper outlining approach for book on "Differential Diagnoses for Occupationally Related Diseases"												FFyyyW	6822
f. Revise Project Concept Memo for Occupational Health Center for Lung Disease												FFyyyW	6823
g. Coordinate NIOSH input into review of Environmental Impact Statements												FFyyyW	6824
												FFyyyW	6825
												FFyyyW	6826
												FFyyyW	6827
												FFyyyW	6828
												FFyyyW	6829
												FFyyyW	6830
												FFyyyW	6831
												FFyyyW	6832
												FFyyyW	6833
												FFyyyW	6834
												FFyyyW	6835
												FFyyyW	6836
												FFyyyW	6837
												FFyyyW	6838

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY PLANNED COMPLETION				P M F R E U O C N			RESOURCES	
	I	C	1Q	2Q	3Q	4Q	G H D	PY	
8. Office Management (Bridbord, 443-6437) (VCA-vXy-872) (2.0/0.15/0.073) (100/VCA-Wyy-872)	81	C					W c a		
.1 Personnel Evaluations									FFyyyW 6841
a. Completion of evaluations for 20 Civil Servants						o			FFyyyW 6842
b. Completion of evaluations for 3 Commissioned Officers						o			FFyyyW 6843
.2 Receive terminal reports from TA's and submit abstracts to Director, NIOSH on 21 completed research grants				10		21			FFyyyW 6844
.3 Number of publications appearing in scientific journals from NIOSH grant supported research			o	o	o	o			FFyyyW 6845
.4 Receive final reports and submit abstracts to Director, NIOSH on 3 Special Foreign Currency Research Projects				1	2	3			FFyyyW 6846
.5 Accumulated spending of non-personnel funds by organization unit and program by quarter for the Fiscal Year			o	o	o	o			FFyyyW 6847
.6 Submit Quarterly EEO Report to NIOSH EEO Officer			o	o	o	o			FFyyyW 6848
									FFyyyW 6849
									FFyyyW 6850
									FFyyyW 6851
									FFyyyW 6852
									FFyyyW 6853
									FFyyyW 6854
									FFyyyW 6855
									FFyyyW 6856

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	P M F R E U O C N G H D				RESOURCES	
	FY PLANNED COMPLETION				PY	NPF TF \$1000 \$1000
	I C	1Q	2Q	3Q 4Q		
DIVISION OF STANDARDS DEVELOPMENT AND TECHNOLOGY TRANSFER						
9. Program Management (R. Lemen 513/684-8302) (VIA-vNX-712, 722, 723, 724, & 082)(100/VIA-Hyy-082)	70 C				W g a	G W 6859 G W 6860 GayyyW 6861 GayyyW 6862 GayyyW 6863 GayyyW 6864 GayyyW 6865 GayyyW 6866 GayyyW 6867 GayyyW 6868 GayyyW 6869 GayyyW 6870 GayyyW 6871 GayyyW 6872 GayyyW 6873 GayyyW 6874 GayyyW 6875 GayyyW 6876 GayyyW 6877 GayyyW 6878 GayyyW 6879 GayyyW 6880 GayyyW 6881 GayyyW 6882 GayyyW 6883 GayyyW 6884 GayyyW 6885 GayyyW 6886 GayyyW 6887 GayyyW 6888 GayyyW 6889 GayyyW 6890 GayyyW 6891 GayyyW 6892 GayyyW 6893 GayyyW 6894 GayyyW 6895 GayyyW 6896 GayyyW 6897 GayyyW 6898 GayyyW 6899 GayyyW 6900 GayyyW 6901 GayyyW 6902 GayyyW 6903 GayyyW 6904
.1 Hold monthly Division project progress reviews		o	o	o	o	
.2 Prepare quarterly progress reports for OPPE		o	o	o	o	
.3 Submit final program plans to Director, NIOSH for FY83					o	
.4 Submit final project plans to OPPE for FY83					o	
.5 Prepare quarterly status report for Division		o	o	o	o	
.6 Prepare monthly financial status reports for Division		o	o	o	o	
.7 Nominate appropriate staff for recognition at annual awards ceremony					o	
.8 Complete personnel evaluations on merit pay commissioned officers and civil service employees					65	
.9 Respond to requests for evaluation of health information in support of OSHA enforcement activities		5	10	15	20	
.10 Provide scientific support on special projects to Office of Director		1	2	3	4	
a. Submit RFC for Consultant Services Contract			o			
b. Award Contract				o		
.11 Submit EEO report quarterly		1	2	3	4	
.12 Utilize Division human resources within 90% of allocation rate (PY)		21.2	42.4	63.6	84.8	
.13 Obligate Division Financial resources within 90% of project expenditure rate (\$1000)		960	1.9m	2.9m	3.9m	
.14 Submit recommendation Documents to Institute Director Office						
a. Criteria Documents			1	2	4	
b. Current Intelligence Bulletins		1	2	3	4	
.15 Perform statistical developmental research:						
a. Produce drafts of 3 of 5 chapters for a NIOSH textbook, "Sampling the Occupational Environment", (Leidel, Busch, and Lynch). 20 chapter total			o	o	o	
b. Assist in the development of a statistical protocol for respiratory quantitative fit testing						
.01 Submit RFC for Statistical Consultant Contract			o			
.02 Review bids				o		
.03 Award Contract					o	
.04 Site visits to monitor contract					o	
.05 Receive progress reports					o	
.06 Receive final report April, 1983						
c. Develop statistical sampling strategies for asbestos and						

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	P M F				R E U				RESOURCES	
	FY		PLANNED COMPLETION		O C N		G H D		NPF	TF
	I	C	1Q	2Q	3Q	4Q			\$1000	\$1000
another material			0			0				
d. Review research proposals by providing Executive Officer support for the Statistical Project Review Group (SPRG). Monitor and report quarterly on SPRG activities			0	0	0	0			GayyyW	6905
									GayyyW	6906
									GayyyW	6907
									GayyyW	6908
									GayyyW	6909
e. Arrange 4 peer interaction seminars or short courses			1	2	3	4			GayyyW	6910
f. Provide 36 consultation days to scientists as NIOSH statistician liaison			9	18	27	36			GayyyW	6911
									GayyyW	6912
g. Perform statistical reviews of 6 manuscripts									GayyyW	6913
									GayyyW	6914
.01 two for NIOSH scientists and contractors				1		2			GayyyW	6915
									GayyyW	6916
.02 Four for Archives of Environmental Health (as Consulting Editor			1	2	3	4			GayyyW	6917
.16 Maintain and update OSH Guidelines									GayyyW	6918
									GayyyW	6919
a. 20 new topics identified and work initiated			4	8	15	20			GayyyW	6920
									GayyyW	6921
b. 20 updates or completion of new topics to Guidelines			2	5	10	20			GayyyW	6922
c. Submit RFC for Guidelines Contract Work				0					GayyyW	6923
d. Award Contract					0				GayyyW	6924
									GayyyW	6925
									GayyyW	6926

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	C	1Q	2Q	3Q	4Q	G	H	D	PY	RESOURCES	
											NPF	TF
											\$1000	\$1000
DIVISION OF TRAINING MANPOWER DEVELOPMENT												
10. Program Management and Support (A. Stevens 684-8221) (100/VUA-Wyy-762)(3.5/830/)	76	C										
.1 Provide administration of Division Program and Projects												
.a Finalize Program Plan for FY 82 and submit to OPPE												
.b Conduct FY83 Planning												
.1 Strategic Planning Session (NIOSH)												
.2 Initial FY83 Program Planning (NIOSH)												
.a. Prepare and submit Program Concept Memo												
.b. Prepare and submit Project Concept Memo												
.c. Participate in Project Concept Review (NIOSH)												
.3 FY83 Program Plan completed												
.4 FY83 Project Plans completed												
.c Program Progress Reporting												
.1 4QFY81 Program Progress Report preparation and submission and review												
.2 1QFY82 Program Progress Report preparation, submission and review												
.3 2QFY82 Program Progress Report preparation, submission and review												
.4 3QFY82 Program Progress Report preparation submission and review												
.d Prepare and submit Annual Reports to Congress (OH&S Act and Mining Act)												
.2 Provide Personnel Management												
.a Review Division Staffing, recruitment and staff development plans with EEO Officer												
.b Hold all hands meeting with Division Staff, one meeting to include NIOSH Director or his representative												
.c Arrange for job-related training for Division staff, including attendance at specialty field related meetings (for at least 50% staff)												
.d Finalize Performance Plans (under Employee Performance Management System)												
.1 Conduct interim evaluations												
.2 Conduct final evaluation (1QFY83)												
.e Review and adopt or change current MPS Work Plans for Supervisors, to be used in FY82												
.1 Conduct interim evaluation												
.2 Conduct final evaluation												
.f Conduct rating and review and submit Commissioned Officer Efficiency Reports												
.e Prepare and submit Award Recommendations												
.3 Coordination of DTMD Activities with and support for other												

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY		PLANNED COMPLETION				P M F R E U O C N			RESOURCES NPF TF		
	I	C	1Q	2Q	3Q	4Q	G	H	D	PY	\$1000	\$1000
NIOSH O/D's												
.a Review Criteria Documents and Profiles, manuscripts, reports, contract proposals, etc. for other O/D's			10	20	30	40					HHyyyW	6975
											HHyyyW	6976
.b Provide DTMD personnel for participation in Special Activities/Committees, etc. (HSRB, Long Term Training Committee, NIOSH Residency Committee, etc)			2	5	8	10					HHyyyW	6977
											HHyyyW	6978
.4 Maintain Liaison with other Federal Agencies, Professional Associations, Unions, Trade Associations, Academia											HHyyyW	6979
.a Monitor TVA IA; receive reports and advise OPPE/Director NIOSH on maintenance/modification/termination of agreement						0					HHyyyW	6980
											HHyyyW	6981
.b Meet with OSHA Office of Training and Education to coordinate training/education activities				1		2					HHyyyW	6982
											HHyyyW	6983
.c Meet with MSHA to plan/review joint training/education activities				1		2					HHyyyW	6984
											HHyyyW	6985
.d Provide for assistance, development of joint projects etc. with OSHA, BOM, EPA, GSA, etc.*						0					HHyyyW	6986
											HHyyyW	6987
.5 Maintain Liaison with Foreign Nations											HHyyyW	6988
.a Receive visitors as scheduled by OD NIOSH (est. 6 visitors/delegations)			0	0	0	0					HHyyyW	6989
											HHyyyW	6990
.b Arrange for exchange of training/education procedures, materials etc.			0	0	0	0					HHyyyW	6991
											HHyyyW	6992
.c Provide assistance, development of joint projects, etc.*											HHyyyW	6993
											HHyyyW	6994
.6 Administer free funds allocations (K)											HHyyyW	6995
.a Office of the Director			7	13	19	26					HHyyyW	6996
			61	88	126	156					HHyyyW	6997
.b Direct Training Branch			108	215	306	355					HHyyyW	6998
.c Curriculum Development Branch			198	210	294	332					HHyyyW	6999
.d Educational Resource Development					7M	7M					HHyyyW	7000
.e Training Grants											HHyyyW	7001
.f Total Free Funds			274	526	745	7.86					HHyyyW	7002
											HHyyyW	7003
*This will be done on an "as requested" basis. No positive action will be taken by DTMD, response will be made as appropriate, eg. as required by OD, NIOSH											HHyyyW	7004
											HHyyyW	7005
											HHyyyW	7006
											HHyyyW	7007
											HHyyyW	7008
OFFICE OF ADMINISTRATIVE AND MANAGEMENT SERVICES											J W	7009
											J W	7010
11. Administrative Services Branch-Rockville (M.Cramer,443-1646) (VGC-vXX-042)(100/VGC-vXX-042)(VGC-vXX-052) (100/VGC-vXX-052)	81	81							W c a		JayyyW	7011
											JayyyW	7012
											JayyyW	7013
											JayyyW	7014
											JayyyW	7015
12. Administrative Services Branch-Cincinnati (A. Hollmeyer, 684-8236) (VGD-vXX-043)(100-VGD-vXX-043)(VGD-vXX-053) (100/VGD-vXX-053)	81	81							W c a		JayyyW	7016
											JayyyW	7017
											JayyyW	7018
											JayyyW	7019
											JayyyW	7020
											JayyyW	7021

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY				P M F				RESOURCES	
	PLANNED COMPLETION				R E U				NPF TF	
	I	C	1Q	2Q	3Q	4Q	G	H	D	PY \$1000 \$1000
13. Administrative Services Branch-Morgantown (C.Dalton, 923-7126) (VGB-vXX-054)(100/VGB-vXX-054)(VGB-vXX-055) (100/VGB-vXX-055)(VGB-vXX-056)(100/VGB-vXX-056) (VGB-vXX-057)(100/VGB-vXX-057)(VGB-vXX-058) (100/VGB-vXX-058)	81	81					W	c	a	JayyyW 7022 JayyyW 7023 JayyyW 7024 JayyyW 7025 JayyyW 7026 JayyyW 7027 JayyyW 7028
14. Financial Management Branch-Rockville (D.Boyd,443-1518) (VGE-vXX-036)(100/VGE-vXX-035)(VGE-vXX-035) (100/VGE-vXX-036)	81	81					W	c	a	JbyyyW 7029 JbyyyW 7030 JbyyyW 7031 JbyyyW 7032
15. Financial Management Branch-Cincinnati R. Scheve, 684-8277 (VGE-vXX-037)(100/VGE-vXX-037)	81	81					W	c	a	JbyyyW 7033 JbyyyW 7034 JbyyyW 7035 JbyyyW 7036
16. TAPS (D.Boyd, 443-1518) (VGE-vXX-038)(100/VGE-vXX-038) (VGE-vXX-032)(100/VGE-vXX-032)	81	81					W	c	a	JbyyyW 7037 JbyyyW 7038 JbyyyW 7039 JbyyyW 7040
17. Management Systems, ADP-Cincinnati (L. Catlett) (VGP-vXX-048)	81	81					W	c	a	JcyyyW 7041 JcyyyW 7042 JcyyyW 7043
18. Management Systems Branch (P.Bengtson,443-3227) (VGP-vXX-044)(100/VGP-vXX-044)(VGP-vXX-049) (100/VGP-vXX-049)(VGP-vXX-050)(100/VGP-vXX-050) (VGP-vXX-048)(100/VGP-vXX-048)	81	81					W	c	a	JcyyyW 7044 JcyyyW 7045 JcyyyW 7046 JcyyyW 7047 JcyyyW 7048
19. Procurement, Grants & Property Management (M. Stitely, 443-3440) (VGJ-vXX-039)(100/VGJ-vXX-039) (VGJ-vXX-060)(100/VGJ-vXX-060)	81	81					W	c	a	JdyyyW 7049 JdyyyW 7050 JdyyyW 7051 JdyyyW 7052 JdyyyW 7053
20. Office of the Director, DAMS (R. Coene, 443-1697) (VGA-vXX-033)(100/VGA-vXX-033)	81	81					W	c	a	JJyyyW 7054 JJyyyW 7055 JJyyyW 7056
21. Internal Safety Management (J. Dixon, 684-8391) (VGA-vXX-034)(100/VGA-vXX-034)	81	81					W	c	a	JJyyyW 7057 JJyyyW 7058 JJyyyW 7059
OFFICE OF THE DIRECTOR										K W 7060 K W 7061
22. Institute Policy (R. Coene, 443-1530) (VAA-vXX-003)(100/VAA-vXX-003)(VAA-vXX-002) (100/VAA-vXX-002)(VAA-aXk-010)(100/VAA-aXk-010) (VAA-vXX-006)(100/VAA-vXX-006)(VAA-aBd-009) (100/VAA-aBd-009)(VAA-vXX-012)(100/VAA-vXX-012)	81	81					W	c	a	KKyyyW 7062 KKyyyW 7063 KKyyyW 7064 KKyyyW 7065 KKyyyW 7066 KKyyyW 7067

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY				PLANNED COMPLETION				P M F R E U O C N			RESOURCES	
	I C		1Q	2Q	3Q	4Q	G H D	PY	NPF TF			\$1000	\$1000
23. Equal Employment Opportunity (M. Bell, 443-3744) (VAA-vXX-004)(100/VAA-vXX-004)	81	81					W c a					KKyyyW	7068
												KKyyyW	7069
												KKyyyW	7070
24. Long Term Training (F. Dense) (VAA-vXX-002)	81	81					W c a					KKyyyW	7071
												KKyyyW	7072
												KKyyyW	7073
25. Labor Liaison Activities (R. Dobbin) (VAA-vXX-006)	81	81					W c a					KKyyyW	7074
												KKyyyW	7075
												KKyyyW	7076
26. Facilities Planning and Engineering Services (J. Coble) (VAA-vXX-012)(100/VAA-vXX-012)	81	81					W c a					KKyyyW	7077
												KKyyyW	7078
												KKyyyW	7079
OFFICE OF PROGRAM PLANNING AND EVALUATION												L W	7080
												L W	7081
27. Planning (S. Fishman, 443-6467) (VEA-100-022) (100/VEA-Wyy-022)	71	C					W c a					LayyyW	7083
												LayyyW	7084
												LayyyW	7085
.1 Complete final tasks for FY1983 budget												LayyyW	7086
a. Submit to Director OPPE a briefing for OMB hearing on FY1983 budget (Oct)												LayyyW	7087
												LayyyW	7088
b. Develop budget overview and assist OAMS in developing Congressional Submission (Jan) and in developing a briefing book for Congressional hearings on FY1983 budget (Feb)												LayyyW	7089
												LayyyW	7090
												LayyyW	7091
												LayyyW	7092
.2 Complete NIOSH Program Plan for FY1982												LayyyW	7093
a. Submit final plan to Director, OPPE												LayyyW	7094
b. Submit publication plan to Communications Committee for FY1982 Program Plan (Nov)												LayyyW	7095
												LayyyW	7096
.3 Develop policies for FY1984 budget request												LayyyW	7097
a. Submit background papers for FY1984 budget to Director OPPE (Jan)												LayyyW	7098
												LayyyW	7099
b. Submit to OAMS approved policies for request to CDC (Feb)												LayyyW	7100
.4 Develop NIOSH Program Plan for FY1983												LayyyW	7101
a. Submit to Director OPPE a review of Division Program Memoranda (Feb)												LayyyW	7102
												LayyyW	7103
b. Submit proposed program guidance for FY1983 to Director OPPE (April)												LayyyW	7104
												LayyyW	7105
c. Submit to Director OPPE a review of project concept memoranda (June)												LayyyW	7106
												LayyyW	7107
d. Submit to Director OPPE a review of project plans (Sept)												LayyyW	7108
.5 Submit to OAMS an update manpower management system (Jan)												LayyyW	7109
.6 Special Assignments (e.g. 1980 objectives, health research principles, health research priorities)												LayyyW	7110
												LayyyW	7111
												LayyyW	7112

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I C	PLANNED COMPLETION				P M F R E U O C N G H D	PY	RESOURCES	
		1Q	2Q	3Q	4Q			NPF	TF
								\$1000	\$1000
28. Evaluation (A. Pezaro, 443-4366) (VEA-vXy-023) (100/VEA-Wyy-023)	71 C					W c a			
.1 Prepare quarterly program analysis		o	o	o	o			LbyyyW	7115
.2 Interagency agreements								LbyyyW	7116
a. Number received		10	25	40	50			LbyyyW	7117
b. Percent processed within 10 workdays		90	90	90	90			LbyyyW	7118
.3 FRA clearances								LbyyyW	7119
a. Number received from Divisions		3	6	9	12			LbyyyW	7120
b. Percent forwarded to CDC within 10 workdays		100	100	100	100			LbyyyW	7121
c. Report to Director, OPPE on those in process		1	2	3	4			LbyyyW	7122
d. Submit information collection budget to OMB			o					LbyyyW	7123
e. Submit report to CDC on use of NIOSH generic clearances					o			LbyyyW	7124
f. Respond to information requests from CDC on OMB activities		4	8	12	16			LbyyyW	7125
.4 Unsolicited Proposals								LbyyyW	7126
a. Number received		10	20	30	40			LbyyyW	7127
b. Percent reviewed and summarized within 45 days		90	90	90	90			LbyyyW	7128
.5 Evaluations								LbyyyW	7129
a. Surveillance								LbyyyW	7130
.1 Submit protocol to Director, OPPE		o						LbyyyW	7131
.2 Initiate data collection			o					LbyyyW	7132
.3 Complete data collection				o				LbyyyW	7133
.4 Complete data analysis				o				LbyyyW	7134
.5 Submit draft final report to Director, OPPE				o				LbyyyW	7135
.6 Submit final report to Director, NIOSH					o			LbyyyW	7136
b. Control Technology Assessment								LbyyyW	7137
.1 Submit protocol to Director, OPPE			o					LbyyyW	7138
.2 Initiate data collection				o				LbyyyW	7139
.3 Complete data collection					o			LbyyyW	7140
.4 Complete data analysis					o			LbyyyW	7141
.5 Submit draft final report to Director, OPPE					o			LbyyyW	7142
.6 Submit final report to Director, NIOSH					o			LbyyyW	7143
c. Evaluation of NIOSH Impact on Workers								LbyyyW	7144
.1 Submit RFC to OAMS		o		o				LbyyyW	7145
.2 Award contract (CDC)				o				LbyyyW	7146
.3 Monitor contract			o		o			LbyyyW	7147
.4 Review draft of final report (3Q83)								LbyyyW	7148
.5 Transmit final report to Director, NIOSH and make appropriate recommendation (4Q83)								LbyyyW	7149
.6 Complete peer-review evaluation					o			LbyyyW	7150
.7 Complete special projects assigned by Director, OPPE		o	o	o	o			LbyyyW	7151
.8 Tracking								LbyyyW	7152
a. Institute's final reports		1	2	3	4			LbyyyW	7153
b. Action items developed at NIOSH/OSHA meeting in 1Q		o	o	o	o			LbyyyW	7154
c. Accuracy of administrative services projects		o	o	o	o			LbyyyW	7155
d. Institute's manuscript submission		o	o	o	o			LbyyyW	7156

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	PLANNED COMPLETION				P M F			RE U		O C N		RESOURCES	
	FY		1Q		2Q	3Q	4Q	G H D		PY		NPF	TF
	I	C										\$1000	\$1000
e. Action items developed at NIOSH/MSHA/BOM meeting in 2Q						o	o					LbyyyW	7161
f. Program milestones generated by GAO reports on HHE and cancer programs			o	o	o	o	o					LbyyyW	7162
g. HHE and ERC milestones for CDC's PED's system												LbyyyW	7163
h. OMS tracking of HHE program milestones (CDC/ASPE)			o	o	o	o	o					LbyyyW	7164
i. Action items developed for Divisions during quarterly review			o	o	o	o	o					LbyyyW	7165
j. Review all RFC submissions			o	o	o	o	o					LbyyyW	7166
												LbyyyW	7167
												LbyyyW	7168
												LbyyyW	7169
29. Office Management OPPE (M. Myers, 443-4364)	80	C							W c a			LLyyyW	7172
(VEA-vXy-025) (100/VEA-Wyy-025)												LLyyyW	7173
												LLyyyW	7174
.1 Review training plans for office employees					o	o	o					LLyyyW	7175
.2 Complete Commissioned Officer Evaluations			2	2	2	2	2					LLyyyW	7176
.3 Complete Merit Pay Plans			0	3	3	3	3					LLyyyW	7177
.4 Complete Merit Pay evaluations					o	o	o					LLyyyW	7178
.5 Complete Civil Service evaluations						o	o					LLyyyW	7179
.6 Accumulated Spending of Non-personnel funds by Branch			30.9	106	170	226						LLyyyW	7180
a. Office Management			11.8	35.2	49.3	56.2						LLyyyW	7181
b. Planning and Program Development			11.8	20.3	25.9	30						LLyyyW	7182
c. Evaluation and Control			7.3	60.4	94.7	140						LLyyyW	7183
.7 Accumulated Use of Full-Time Equivalents			6.0	9.0	13.0	17.0						LLyyyW	7184
a. Permanent full-time			3.0	6.0	8.0	10.0						LLyyyW	7185
.8 Meet Office milestones (percent)												LLyyyW	7186
a. Planning and Program Development			50	50	50	50						LLyyyW	7187
b. Evaluation and Control			50	50	50	50						LLyyyW	7188
												LLyyyW	7189

ALL OTHER PROGRAM AREAS

Office of Extramural Coordination and Special Projects

Research and Demonstration Grants--This OECSP program area, by the very nature of the grants program which cuts across all the OSH field, does not break out into a single program area. Priorities had been set earlier for grants in the OSH areas of reproductive effects and occupational skin diseases. Other efforts had been considered in the areas of mining, respiratory protection, and delivery of OSH services through health maintenance organizations (occupational health and medical care), but announcements have been held up because of restrictions in funding. Announcements under consideration and in various stages of development are the areas of center grants (program project grants), training new investigators, support for Ph.D.-thesis students, support for conferences with other Federal agencies and professional organizations, cardiovascular disease studies, curriculum development for schools of engineering (including chemical), ergonomics, registry of occupational lung diseases, and a textbook on differential diagnosis of occupationally related diseases.

It is expected that OECSP will be able to expand its promotion of interest in occupational health among physicians through recent increased working relationships with the American Academy of Preventive Medicine which will provide OECSP with the results of their recent survey of physicians who practice preventive medicine, occupational medicine in particular.

Needs for Expansion--Efforts toward expansion of several of OECSP's ongoing activities that have indicated this need include: additional resources for research grants; liaison and information exchange with other Federal agencies (recent Presidential Executive Order); involvement, bilaterally and multilaterally, in international programs; strategies to increase involvement of traditional health care providers in delivery of OSH services; participation in conferences on subjects that have had limited attention, such as human subjects review; dissemination of information and technical assistance to the private sector; and investigation of potential resources, governmental and private sector, in support of NIOSH research and demonstration efforts.

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY	I	C	PLANNED COMPLETION				P M F R E U O C N			RESOURCES	
				1Q	2Q	3Q	4Q	G	H	D	NP	TF
											\$1000	\$1000
*****ALL OTHER*****												
											X	7193
											X	7194
DIVISION OF BIOMEDICAL AND BEHAVIORAL SCIENCE											A	X
											A	X
1. Diagnostic & Research Pathology Services (D. Groth, 684-8361) (100/VOT-Xyy-386)	82		C					X	c	a	AdyyyX	7195
											AdyyyX	7196
											AdyyyX	7198
.1 Complete SOPs for common methods				o							AdyyyX	7199
											AdyyyX	7200
.2 Perform animal autopsies (approx. 300/Q)				o	o	o	o				AdyyyX	7201
											AdyyyX	7202
.3 Prepare histopathology slides (approx. 3400/Q)				o	o	o	o				AdyyyX	7203
											AdyyyX	7204
.4 Prepare tissue sections for electron microscopy (approx. 150/Q)				o	o	o	o				AdyyyX	7205
											AdyyyX	7206
.5 Perform hematology tests (approx. 125/Q)				o	o	o	o				AdyyyX	7207
.6 Submit progress reports to Director, DBBS				o	o	o	o				AdyyyX	7208
.7 Submit final project report to Director, DBBS							o				AdyyyX	7209
.8 Submit abstract to Director, NIOSH							o				AdyyyX	7210
											AdyyyX	7211
2. Particulate and Tissue Analysis Support (L. Stettler, 684-8337) (100/VOT-Xyy-387)	82		C					X	b	a	AdyyyX	7212
											AdyyyX	7213
											AdyyyX	7214
.1 Submit progress report to Director, DBBS				o	o	o	o				AdyyyX	7217
.2 Submit RFC to OAMS (trace elemental analysis)				o							AdyyyX	7218
.3 Award contract							o				AdyyyX	7219
.4 Complete microprobe analyses of 85% of samples per quarter (4000/Q)				o	o	o	o				AdyyyX	7220
											AdyyyX	7221
.5 Complete particle size analyses of 85% of samples per quarter (25/Q)				o	o	o	o				AdyyyX	7222
											AdyyyX	7223
.6 Complete EM evaluation of tissue sections, 85% per quarter (25/Q)				o	o	o	o				AdyyyX	7224
											AdyyyX	7225
.7 Submit final report to Director, DBBS							o				AdyyyX	7226
.8 Submit abstract to Director, NIOSH							o				AdyyyX	7227
											AdyyyX	7228
											AdyyyX	7229
											AdyyyX	7230
											AdyyyX	7231

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	P M F R E U O C N				RESOURCES			
	PLANNED COMPLETION				NPF TF			
	FY I C	1Q	2Q	3Q	4Q	G H D	PY	\$1000 \$1000
3. Animal Husbandry Support Service (J. Lal, 684-8360) (100/VOT-Xyy-385)	81	C				X c a		
.1 Develop hazard data sheet (H.D.S) (1Q81)								AdyyyX 7234
.2 Submit H.D.S. to Director, DBBS (1Q81)								AdyyyX 7235
.3 Submit H.D.S. to all project staff (1Q81)								AdyyyX 7236
.4 Develop RFC (1Q81)								AdyyyX 7237
.5 Complete peer review process (2Q81)								AdyyyX 7238
.6 Submit RFC to Director, DBBS (2Q81)								AdyyyX 7239
.7 Submit RFC to OAMS (2Q81)								AdyyyX 7240
.8 Submit progress reports to Director, DBBS			o	o	o	o		AdyyyX 7241
.9 Award contract				o				AdyyyX 7242
.10 Perform animal husbandry services and contract management			o	o	o	o		AdyyyX 7243
.11 Provide supplemental training of animal caretakers and DBBS staff			o	o	o	o		AdyyyX 7244
.12 Submit final project report to Director, DBBS						o		AdyyyX 7245
.13 Submit abstract to Director, NIOSH						o		AdyyyX 7246
								AdyyyX 7247
								AdyyyX 7248
								AdyyyX 7249
								AdyyyX 7250
								AdyyyX 7251

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY				P M F				RESOURCES	
	PLANNED COMPLETION				R E U				NPF TF	
	I	C	1Q	2Q	3Q	4Q	O C N	G H D	PY	\$1000 \$1000
4. Inhalation Toxicology Service and Research (A. Khan, 684-8356) (100/VOT-Xyy-379)	82	C					X b a			
.1 Award service contract (RFC 210-81-6108-DR)										AdyyyX 7254
.2 Complete development of Standard Operating Procedures										AdyyyX 7255
.3 Comparative Cardiac Toxicity of Inhaled Amines (V00 339)										AdyyyX 7256
a. Initiate 90-day exposures:										AdyyyX 7257
(1) Allylamine										AdyyyX 7258
(2) Triethylamine										AdyyyX 7259
b. Complete exposures:										AdyyyX 7260
(1) Allylamine										AdyyyX 7261
(2) Triethylamine										AdyyyX 7262
c. Complete pilot study:										AdyyyX 7263
(1) Amine #3										AdyyyX 7264
(2) Amine #4										AdyyyX 7265
d. Initiate 90-day exposures:										AdyyyX 7266
(1) Amine #3										AdyyyX 7267
(2) Amine #4										AdyyyX 7268
e. Complete 90-day exposures:										AdyyyX 7269
(1) Amine #3										AdyyyX 7270
(2) Amine #4										AdyyyX 7271
.4 Pulmonary Hypersensitivity of Industrial Metals (VOT 329)										AdyyyX 7272
a. Complete pilot study:										AdyyyX 7273
(1) Platinum										AdyyyX 7274
(2) Chlorine										AdyyyX 7275
b. Initiate subchronic exposures:										AdyyyX 7276
(1) Platinum										AdyyyX 7277
(2) Chlorine										AdyyyX 7278
c. Complete exposures:										AdyyyX 7279
(1) Platinum										AdyyyX 7280
(2) Chlorine										AdyyyX 7281
d. Complete pilot study:										AdyyyX 7282
(1) Vanadium										AdyyyX 7283
(2) Ozone										AdyyyX 7284
e. Initiate subchronic exposures:										AdyyyX 7285
(1) Vanadium										AdyyyX 7286
(2) Ozone										AdyyyX 7287
f. Complete exposures:										AdyyyX 7288
(1) Vanadium (2Q83)										AdyyyX 7289
(2) Ozone (2Q83)										AdyyyX 7290
.5 Emergency Toxicologic Assessment (V00)										AdyyyX 7291
a. Chemical I:										AdyyyX 7292
(1) Complete pilot study										AdyyyX 7293
(2) Complete repeated dose study										AdyyyX 7294
(3) Initiate 90-day exposures										AdyyyX 7295
(4) Complete 90-day study										AdyyyX 7296

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY				COMPLETION				P M F			RESOURCES	
	I C		1Q	2Q	3Q	4Q	G H D	PY	O C N			NPF	TF
												\$1000	\$1000
b. Chemical II:												AdyyyX	7300
(1) Complete pilot study					o							AdyyyX	7301
(2) Complete repeated dose study					o							AdyyyX	7302
(3) Initiate 90-day exposures					o							AdyyyX	7303
(4) Complete 90-day study.						o						AdyyyX	7304
.6 Initiate automation program for inhalation toxicology facility.												AdyyyX	7305
a. Chronic inhalation laboratory				o								AdyyyX	7306
b. High Hazard Inhalation laboratory					o							AdyyyX	7307
c. Acute inhalation laboratory					o							AdyyyX	7308
.7 Complete training of inhalation toxicology personnel			o	o	o	o						AdyyyX	7309
.8 Submit progress reports to OD, DBBS			o	o	o	o						AdyyyX	7310
.9 Submit final project report to OD, DBBS						o						AdyyyX	7311
.10 Submit abstract to Director, NIOSH						o						AdyyyX	7312
												AdyyyX	7313
												AdyyyX	7314
DIVISION OF RESPIRATORY DISEASE STUDIES												C X	7316
												C X	7317
5. Task Order Medical Services Contract (Spransy G 304-599-7387) (VKL-bDX-182)(100/VCa-Xmy-182)	81	C							X a b			CamyyX	7319
												CamyyX	7320
.1 Initiate task order for medical support services in support of Division field cohort studies			1	3	5	7						CamyyX	7321
.2 Receive survey data and monitor tasks			o	o	o	o						CamyyX	7322
												CamyyX	7323
												CamyyX	7324
6. Animal & Exposure Facility-Support (Major P 304-599-7256) (VKC-cDd-123)(100/VCd-Xdg-123)	81	C							X b a			CddgyX	7325
												CddgyX	7328
.1 Order equipment for inhalation facility			o									CddgyX	7329
.2 Install equipment for inhalation facility					o							CddgyX	7330
.3 Calibrate equipment for inhalation facility						o						CddgyX	7331
.4 Monitor support contract, FY81/82				o	o	o						CddgyX	7332
.5 Monitor support (1,2,3,4Q83)												CddgyX	7333
.6 Monitor support contract (1,2,3,4Q84)												CddgyX	7334
												CddgyX	7335
												CddgyX	7336
												CddgyX	7337
7. Computer Support (Boyce L 304-599-7306) (VKQ-uDX-232)(100/VCe-Xmn-232)	70	C							X b b			CemnyX	7340
												CemnyX	7341
.1 Process medical exam data			o	o	o	o						CemnyX	7342
.2 Programming HHE's			o	o	o	o						CemnyX	7343
.3 Programming research			o	o	o	o						CemnyX	7344
.4 Data entry			o	o	o	o						CemnyX	7345
												CemnyX	7346
												CemnyX	7347

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY				PLANNED COMPLETION				P M F			RE U		O C N		RESOURCES	
	I	C	1Q	2Q	3Q	4Q	G	H	D	PY	NPF	TF	\$1000 \$1000				
DIVISION OF SURVEILLANCE, HAZARD EVALUATIONS AND FIELD STUDIES																	
8. Biological Hazards in the Workplace (Larry Elliott 513-684-2876) (100/VMH-Xdd-575)	81	82								X	c	a					
A. Initiate walk-through surveys (1Q81).																	
B. Complete walk-through surveys.																	
C. Complete industrial hygiene reports.																	
D. Complete final report and transmit abstract to Director, NIOSH and copy to DTS.																	

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	C	PLANNED COMPLETION				P M F R E U O C N G H D	PY	RESOURCES	
			1Q	2Q	3Q	4Q			NPF	TF
									\$1000	\$1000
OFFICE OF EXTRAMURAL COORDINATION AND SPECIAL PROJECTS										
9. Research and Demonstration Grants (Moshell, 443-4493)	71	C					X e a			
(VCE-tXy-875) (0/2.2/2.2) (100/VCE-Xyy-875)										
(VCE-tXy-874) (9/0.115/0.375) (100/VCE-Xyy-874)										
.1 Program Development										
a. Develop a research program project grants effort										
.01 Develop a request for applications for approval by Director, NIOSH and CDC			o							
.02 Publish and distribute announcement				o						
.03 Receive and acknowledge letters of intent from potential applicants responses to inquiries					o					
.04 Develop a review panel for applications and make arrangements for meeting					o					
.05 Site visit applicants					o					
.06 Conduct review meeting					o					
.07 Conduct secondary review of approvals						o				
.08 Prepare funding recommendation packages						o				
b. Publish and distribute FY 1981 annual report for information/public relations										
.01 Update summaries for continuations with input from Technical Advisors			o							
.02 Prepare summaries of new FY 1981 awards			o							
.03 Prepare program summary information			o							
.04 Develop final camera ready copy and gain approval to publish			o							
.05 Publish and distribute				o						
.2 Program Monitoring and Evaluation										
a. Training and Orientation for TAs										
.01 Conduct training sessions for NIOSH Technical Advisors in Cincinnati			o	o	o					
.02 Develop final draft of Technical Advisor's handbooks			o							
.03 Publish and distribute TA handbook			o							
b. Renewals and Extension Requests for non-competitive grants										
.01 Number of reviews of progress reports coordinated with TAs			1	4	10	21				
.02 Number of requests for time extensions reviewed				3		7				
.03 Number of type 5 justifications prepared			1	4	10	21				
c. Prepare project summaries and accomplishments										
.01 Number of final reports received			10		15	30				
.02 Number of project accomplishment summaries coordinated with grantee and TA				10	21					
.03 Number of project summaries prepared				10	21	23				
.3 Grant Application Review and Funding										

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY				P M F				RESOURCES	
	I	C	PLANNED COMPLETION		O	C	N	PY	NPF	TF
			1Q	2Q						
a. Conduct secondary review process			o						FayyyX	7410
.01 Prepare packages and conduct secondary review			o	o	o				FayyyX	7411
.02 Prepare funding packages for Types 1 & 2			o	o		o			FayyyX	7412
b. Safety and Occupational Health Study Section									FayyyX	7413
.01 Percent grant applications received and sent to reviewers 2 months prior to meeting			100	100	100				FayyyX	7414
.02 Hold Study Section meetings			o	o	o				FayyyX	7415
.03 Research and demonstration grant applications reviewed			60	70	55				FayyyX	7416
.04 Training grant applications reviewed			2	4	1				FayyyX	7417
.05 Grant applications approved (percent)									FayyyX	7418
- Research and Demonstration			25	25	25				FayyyX	7419
- Training			30	30	30				FayyyX	7420
- Total			25	25	25				FayyyX	7421
.06 Percent summary statements completed for printing within 30 days (December 30)				75	75	100			FayyyX	7422
c. Review of ERC applications									FayyyX	7423
.01 Develop review procedures and panel of reviewers			o						FayyyX	7424
.02 Publish request for applications			o						FayyyX	7425
.03 Number of letters of intent received				30					FayyyX	7426
.04 Number of applications received					20				FayyyX	7427
.05 Hold pre-review Study Section meeting					o				FayyyX	7428
.06 Conduct site visits						30			FayyyX	7429
.07 Conduct Study Section review of applications						o			FayyyX	7430
d. Finalize ad hoc reviewers roster				o					FayyyX	7431
e. Update Study Section membership									FayyyX	7432
.01 Complete and publish Study Section members handbook			o						FayyyX	7433
.02 Orient new members			o						FayyyX	7434
.03 Prepare and receive Institute clearance for nomination packages for seven new members					o				FayyyX	7435
f. Submit I.A. with NIH to OPPE for DRB Processing and Review Support Services			o						FayyyX	7436
g. Submit appropriate grants for HSRB review prior to funding decisions			o	o	o				FayyyX	7437
.4 Program Management									FayyyX	7438
a. Develop strategies for expanding research grant dollars through cooperation with other agencies/organizations				o					FayyyX	7439
									FayyyX	7440
									FayyyX	7441
									FayyyX	7442
									FayyyX	7443
									FayyyX	7444
									FayyyX	7445
									FayyyX	7446
									FayyyX	7447

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