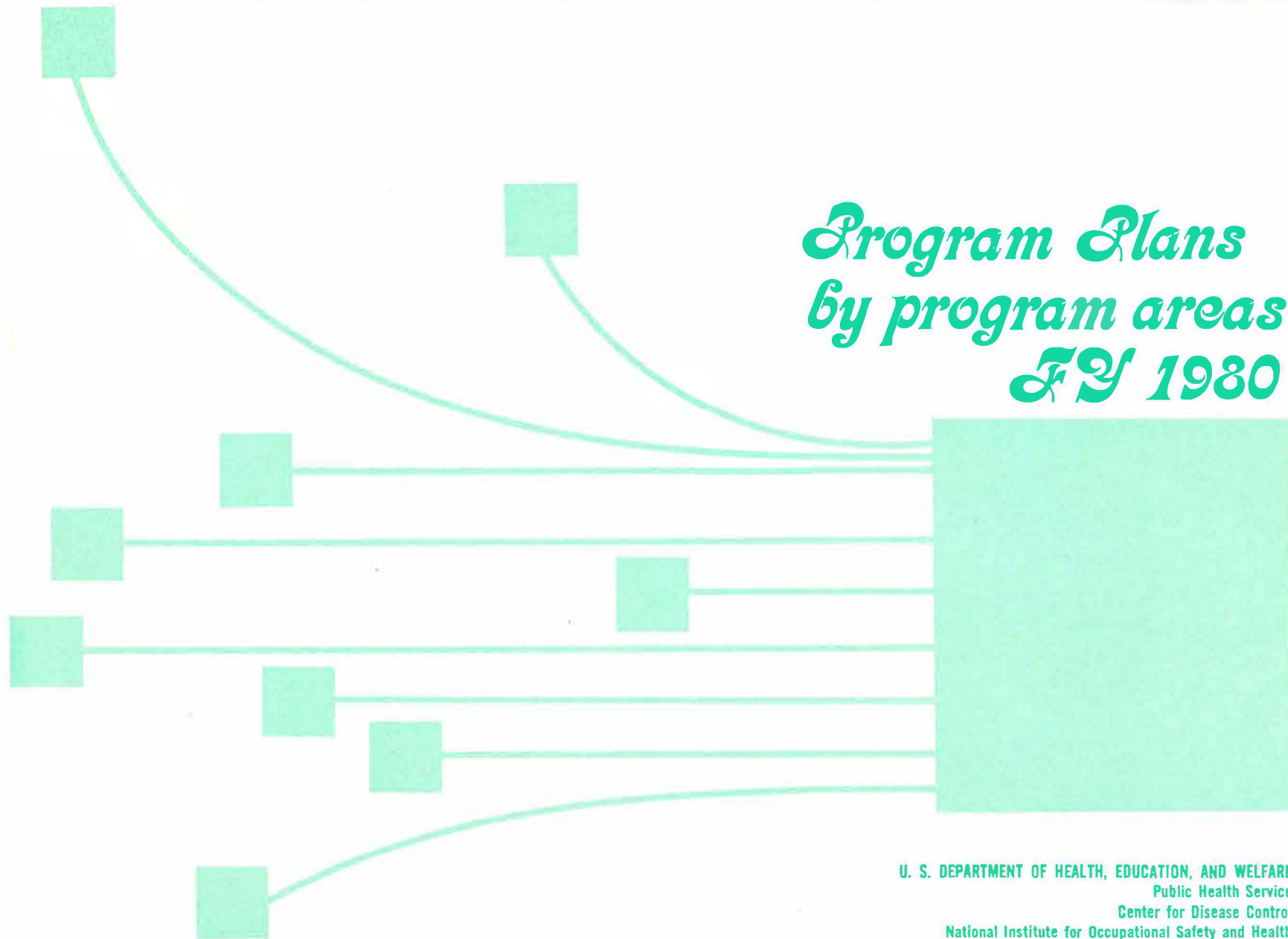


NATIONAL INSTITUTE FOR OCCUPATIONAL SAFETY AND HEALTH

Program Plans by program areas FY 1980



U. S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE
Public Health Service
Center for Disease Control
National Institute for Occupational Safety and Health

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PROGRAM OF THE NATIONAL INSTITUTE FOR OCCUPATIONAL SAFETY AND HEALTH

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Program Plan by Program Areas for FY 1980

U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE
Public Health Service
Center for Disease Control
National Institute for Occupational Safety and Health

October 1979

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Behavioral Research	9
Cancer Research	16
Coal Mining Research	41
Control Technology Research	52
Criteria Document Support and Standards Development	62
Energy Research	74
Ergonomic Research	79
General Research in Support of Standards	80
Health Hazard Evaluations	93
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Metal and Nonmetal Mining Research	102
Personal Protective Equipment Research	110
Physical Agents Research	112
Radiation Research	116
Reproductive Hazards Research	117
Respiratory Disease Research	129
Safety Research	136
Surveillance	148
Synthetic Fuels Research	153
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PREFACE

This document outlines the NIOSH Program Plan for FY 1980, but by itself is not sufficient to determine many management decisions that must be made over the next year. In particular, this plan reflects a substantial shifting of funds and staff, but does not specify the timing of transitions and the activities that will occur during the transition. Some small but critical activities, such as the safety program for Institute staff, do not appear in this plan because they are in the midst of transition, but they will continue without interruption.

This plan reflects specific steps to increase field studies and to shift a larger portion of support services to contractors. These steps are only the first steps in a continuing effort to expand the epidemiological studies and to improve the dissemination of findings of occupational health and safety research. Additional steps will be taken to expand resources for health hazard evaluations and surveillance and to redirect technical services such as laboratory analyses to better support these field studies.

Anthony Robbins, M.D.

FOREWORD

The current responsibilities of the National Institute for Occupational Safety and Health were established primarily by the Public Health Service Act, the Occupational Safety and Health Act of 1970, and the Federal Mine Safety and Health Amendments Act of 1977. A major NIOSH responsibility under those Acts is to conduct research necessary to ensure, insofar as possible, that no worker will suffer diminished health, reduced functional capacity, or decreased life expectancy as a result of his or her work experience.

This document outlines NIOSH's Program Plan for in-house and extramural projects for FY 1980, October 1, 1979 through September 30, 1980. This plan will serve as a tool for ongoing internal planning and control by the Institute management. To ensure that NIOSH responds appropriately and promptly to emerging problems, we will make any necessary modifications in individual projects.

This Program Plan reflects a shift in emphasis of the Institute's activities. Greater emphasis will be given to field studies such as health hazard evaluations, control technology assessments, epidemiological studies, and surveillance studies. Important steps already taken include focusing new resources on these activities and shifting staff to field study activities from technical support activities that can be performed better under contract. In the long run the Institute is committed to maintaining a core of scientific expertise and improving the dissemination of information and skills from scientific findings to workers at their worksites.

The Program Plan includes \$2 million earmarked for initiating new projects in five areas. Proposals for grants and contracts related to these special initiatives will be solicited actively. The NIOSH special initiatives for FY 1980 are:

Chronic Effects of Trauma--the long-term health effects associated with physical injury or stress, such as disabling lower-back pain.

Mining Health Hazards--conditions in surface and underground mines to which miners are exposed and that lead to chronic disease, such as silicosis from exposure to silica dust and lung cancer from radon daughter products in uranium mines.

Radiation-Related Hazards--ionizing and nonionizing radiation to which workers are exposed on the job and that may lead to illness, such as the suspected increase in risk of leukemia in people working around nuclear submarines.

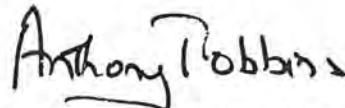
Reproductive Hazards--physical and chemical hazards, such as those found in hospital operating rooms, to which workers are exposed and that might affect the development of their unborn children.

Safety Hazards--workplace conditions that lead to immediate injury, such as head and neck injuries sustained from falling objects.

Previous NIOSH Program Plans have described substantially all the projects for the next twelve months. Because we anticipate that this plan will be more dynamic, we expect that a supplement to the FY 1980 Program Plan will be produced later this year to reflect a mid-course update to the current plan. In addition, internal management reviews now underway very probably will lead to some restructuring within NIOSH. It will be necessary to modify the Institute's Program Plan to reflect that restructuring.

Emphasis also will be placed on continuing efforts to identify the needs of users of NIOSH's research findings. For example, our Program Plan for Fiscal Year 1980 includes specific research project proposals to meet the recent requests from the Department of Labor's NIOSH Planning Group that identified the research needs of OSHA, MSHA, and ESA. Similarly, we plan to establish procedures for identifying needs of other users of NIOSH programs and products--other Federal agencies, and State and local governments; individual workers; organized labor and management; and the general population.

We want to continue to improve our annual program plans both in terms of content and in their presentation. Your suggestions for change 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, Room 8A-09, 5600 Fishers Lane, Rockville, Maryland 20857. The telephone number is (301) 443-4364.



Anthony Robbins, M.D.
Director, National Institute for
Occupational Safety and Health

KEYS TO CODING

Type of Activity (ACT) -- Column 96

- a - Analytical Services (clinical and biological)
Control Technology:
- b -- assessment
- c -- monitoring equipment development
- d -- analytical methods development
- e - Criteria Documentation and Standards Development
Field Studies:
- f -- industrial hygiene
- g -- morbidity
- h -- mortality
- i -- combinations of f, g, and h
- j - Information and Publications
Laboratory Research:
- k -- animal
- m -- human
- n -- in vitro
Workforce Development:
- p -- direct training
- q -- curriculum development
- r -- educational resource centers
- s - Program Support Services
Safety Research:
- t -- field
- u -- laboratory
- v -- personal protective equipment
- w - Surveillance
- x - Technical Support
- y - Administrative Services

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 Study
- g - Smoking

Offices/Divisions and Branches -- Columns 119 and 120

- A - Division of Respiratory Disease Studies
 - a - Epidemiological Investigations
 - b - Environmental Investigations
 - c - Clinical Investigations
 - d - Laboratory Investigations
 - e - Examination Processing
- B - Division of Biomedical and Behavioral Science
 - a - Behavioral and Motivational Factors
 - b - Physiology and Ergonomics
 - c - Experimental Toxicology
 - d - Biological Support
 - e - Physical Agents Effects
- C - Division of Surveillance, Hazard Evaluations, and Field Studies
 - a - Hazard Evaluations and Technical Assistance
 - b - Industry-wide Studies
 - c - Surveillance
 - d - Support Services
- D - Division of Physical Sciences and Engineering
 - a - Control Technology Research
 - b - Measurement Support
 - c - Measurement Research
- E - Division of Safety Research
 - a - Safety Surveillance
 - b - Accident and Injury Epidemiology
 - c - Standards and Consultation
 - d - Testing and Certification
- F - Division of Criteria Documentation and Standards Development
 - a - Criteria Development
 - b - Mine Health Standards
 - c - Priorities and Research Analysis
- G - Division of Technical Services
 - a - Statistical Services
 - b - Occupational Safety and Health Programs
 - c - Clearinghouse for Occupational Safety and Health Information
 - d - Technical Information Development
- H - Division of Training and Manpower Development
 - a - Direct Training
 - b - Curriculum Development
 - c - Educational Resource Development
- I - Office of Director
- J - Office of Administrative and Management Services
 - a - Administrative Services
 - b - Financial Management
 - c - Management Systems
 - d - Procurement and Grants Management
- K - Office of Program Planning and Evaluation
 - a - Planning and Program Development
 - b - Evaluation and Control
 - c - Policy Analysis
- L - Office of Extramural Coordination and Special Projects
 - a - Grants Administration and Review
 - b - Technical Evaluation and Review
 - c - Regional Operations

Program Area

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

- a - Administrative Services
- b - Behavioral Research
- c - Cancer Research
- d - Coal Mining Research
- e - Control Technology Research
- f - Criteria Document Support and Standards Development
- g - Energy Research
- h - Ergonomic Research
- i - General Research in Support of Standards
- j - Health Hazard Evaluations
- k - Workforce Development (direct training
and curriculum development)
- m - Metal and Nonmetal Mining Research
- n - National Toxicology Program
- p - Personal Protective Equipment Research
- q - Physical Agents Research
- r - Radiation Research
- s - Reproductive Hazards Research
- t - Respiratory Disease Research
- u - Safety Research
- v - Smoking Research
- w - Surveillance
- x - Synthetic Fuels Research
- y - Technical Services
- z - Toxicology (other than NTP)
- N - NIOSH Planning Group

NIOSH
 Summary of Resources by Program Area
 Fiscal Year 1980
 (dollars are in thousands)

<u>Research Program Area</u>	<u>Man Years</u>	<u>Free Funds</u>	<u>Total Funds</u>
Behavioral Research	16.4	898.6	1299.2
Cancer Research	86.9	3652.6	5915.2
Control Technology	42.8	5249.2	6216.9
Energy	12.2	1326.3	1710.3
Occupational Reproductive Hazards	27.1	2024.7	2660.8
Mining Research	78.8	3464.8	5328.9
Occupational Respiratory Disease	40.1	1717.7	2593.8
Safety Research	13.0	1114.3	1403.6
Surveillance	26.3	3429.2	4018.7
Toxicology	12.4	370.7	663.6
General Research in Support of Standards	41.4	4521.5	5485.1
<u>Non Research Program Area</u>			
Criteria Document Support and Standards Development	102.3	7537.3	9948.2
Technical Services	292.6	7038.0	14062.1
Workforce Development	23.7	13771.0	14242.0
Administrative Services	226.3	9076.8	13108.0
Special Initiatives		2000.0	2000.0
TOTALS	1042.3	67192.7	90656.4

NIOSH
 Summary of Resources by Division
 Fiscal Year 1980
 (dollars are in thousands)

<u>Research Divisions</u>	<u>Man Years</u>	<u>Free Funds</u>	<u>Total Funds</u>
Division of Biomedical and Behavioral Science	116.6	5459.5	8328.2
Division of Physical Sciences and Engineering	108.8	6804.0	9345.1
Division of Respiratory Disease Studies	146.1	4068.0	7430.0
Division of Surveillance, Hazard Evaluations, and Field Studies	200.7	7221.0	11955.0
Division of Safety Research	75.7	3920.0	5608.0
<u>Non Research Divisions</u>			
Division of Criteria Documentation and Standards Development	69.1	6200.0	7854.5
Division of Training and Manpower Development	23.7	13771.0	14242.0
Division of Technical Services	59.5	1245.2	2465.2
Office of Administrative and Management Services	133.0	6535.0	8868.4
Office of the Director	37.1	1016.0	2063.0
Office of Extramural Coordination and Special Projects	57.0	8840.0	10054.0
Office of Program Planning and Evaluation	15.0	113.0	443.0
Special Initiatives		2000.0	2000.0
TOTALS	1042.3	67192.7	90656.4

NIOSH
 Summary of Resources
 Source of Total Funds by Division
 Fiscal Year 1980
 (dollars are in thousands)

<u>Research Divisions</u>	<u>Base</u>		<u>EPA</u>	<u>NCI</u>	<u>Other</u>	<u>Total</u>
	<u>Non Mining</u>	<u>Mining</u>				
DBBS	5099.7	1249.2	668.8	1310.5		8328.2
DPSE	7491.4	1065.9	779.1	8.7		9345.1
DRDS	3087.1	3104.5	1076.5	109.7	52.2	7430.0
DSHEFS	9206.0	613.0	155.0	1981.0		11955.0
DSR	4169.2	1438.8				5608.0
<u>Non Research Divisions</u>						
DCDSD	6234.5	1620.0				7854.5
DTMD	13707.0	500.0			35.0	14242.0
DTS	1665.2	800.0				2465.2
OAMS	7403.4	1400.0	65.0			8868.4
OD	1773.0	290.0				2063.0
OECSF	8054.0			2000.0		10054.0
OPPE	443.0					443.0
SPECIAL INITIATIVES	<u>2000.0</u>	_____	_____	_____	_____	<u>2000.0</u>
TOTAL	70333.5	12081.4	2744.4	5409.9	87.2	90656.4

ADMINISTRATIVE SERVICES

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 occupational safety and health standards and to conduct research, training, technical assistance, and related activities to ensure safe and healthful working conditions for working men and women.

The Office of Administrative Management Services 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. The Office of Program Planning and Evaluation 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.

Each NIOSH Office/Division carries out related functions to respond to the administrative needs of NIOSH, and to manage its own resources. Each O/D also supports the others with its specialized expertise as needed. Several O/Ds provide support services to the entire Institute, such as:

- o Division of Technical Services--technical information through its clearinghouse, statistical services to research activities, and translations and microfilms as well as publications for NIOSH libraries.
- o Division of Training and Manpower Development--coordination of staff inservice training and orientation sessions, and designing and testing special courses for NIOSH personnel when existing courses do not meet their requirements.
- o Office of Extramural Coordination and Special Projects--through its grants management functions, supports NIOSH research, demonstrations, and other initiatives, and serves as the focal point for NIOSH regional activities, such as conducting HHE/TA studies and maintaining contact with other governmental agencies, professional organizations, and academic institutions.

NIOSH FY 80 Program Plans by PROGRAM AREAS

M F

7

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY I C	PLANNED COMPLETION				M F A E U C C N			RESOURCES						
		1Q	2Q	3Q	4Q	T	H	D	MY	\$1000		\$1000			
*****ADMINISTRATIVE SERVICES*****												a	9		
												a	10		
												a	11		
DIVISION OF RESPIRATORY DISEASE STUDIES												A	12		
												A	13		
												A	14		
1. Office of the Director (VKA-R11-103) (100/VKA-R11-103)	80	C						y	b	d	6.7	196.9	344.2	AAatm	16
.1 Submit RFC - National Conference on Byssinosis			o											AAatm	17
.2 Submit RFC - WHO			o											AAatm	18
.3 Award contract - Byssinosis			o											AAatm	19
.4 Award contract - WHO				o										AAatm	20
.5 Receive draft of field operations manual for review				o										AAatm	21
.6 Receive operations manual for final approval					o									AAatm	22
.7 Monitor project peer review process			o			o								AAatm	23
.8 Complete 50 COEPR evaluations for Commissioned Corps personnel			o											AAatm	24
.9 Complete 100 personnel evaluations for civil service employees					o									AAatm	25
.10 Provide technical monitoring review to NIOSH grants			5	10	15	21								AAatm	26
.11 Monitor WHO contract			o	o	o	o								AAatm	27
.12 Receive ACR quarterly report			o	o	o	o								AAatm	28
.13 Receive final report and submit abstract to Director, NIOSH for:														AAatm	29
a. Morbidity Study of 3000 Cotton Textile Workers				o										AAatm	30
b. Energy Industry Medical Protocol				o										AAatm	31
c. IH Study of Grain Dust Exposure			o											AAatm	32
d. Aspergillus and Complement in Allergic Lung Disease			o											AAatm	33
e. The Effects of Industrial Pollutants on Mucus Production			o											AAatm	34
f. Toxicity of Selected Particulates to Alveolar Macrophages				o										AAatm	35
g. Mortality of Coal Miners in the United States			o											AAatm	36
h. Disease Prevalence and Health Hazards of Grain Handlers				o										AAatm	37
DIVISION OF BIOMEDICAL AND BEHAVIORAL SCIENCE														AAatm	38
														AAatm	39
														AAatm	40
														AAatm	41
														AAatm	42
														AAatm	43
														B	44
														B	45
														B	46
														B	47

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY				M F				RESOURCES						
	I	C	PLANNED COMPLETION				A E U			MY	\$1000		\$1000		
			1Q	2Q	3Q	4Q	C	C	N						FF
2. Administration of DBBS Activities (VOA-G40-303)(100/VOA-G40-303)	80	80						y	c	a	6.7	400.0	560.8	BBayk	49
.1 Review DBBS Safety Committee report			o	o	o	o								BBayk	50
.2 Conduct Division all-hands meeting			o											BBayk	51
.3 Review career development plans				o										BBayk	52
.4 Review management training				o										BBayk	53
.5 Implement project officers' training				o										BBayk	54
.6 Coordinate professional recruitment with Professional Development Officer			o	o	o	o								BBayk	55
.7 Review progress of EEO goals				o			o							BBayk	56
.8 Review progress of hiring handicapped persons				o			o							BBayk	57
														BBayk	58
														BBayk	59
														BBayk	60
														BBayk	61
DIVISION OF PHYSICAL SCIENCES AND ENGINEERING														D	63
														D	64
														D	65
3. Administrative Support Services for DPSE Research Program VQA-G40-402)(100/VQA-G40-402)	80	80						y	g	a	3.8	262.5	334.7	DDaaN	67
.1 Provide input to, and review of, DCSDS information documents			5	10	15	20								DDaaN	68
.2 Provide support to OSHA/MSHA public hearings on occupational safety and health standards (man-days)			20	40	60	80								DDaaN	69
.3 Provide support in the preparation of, and back-up to, congressional hearings (man-days)			5	10	15	20								DDaaN	70
.4 Complete review of progress on EEO goals				o			o							DDaaN	71
.5 Complete review of management training			o											DDaaN	72
.6 Complete evaluation of Commissioned Corps			o											DDaaN	73
.7 Complete evaluation of Civil Service					o									DDaaN	74
														DDaaN	75
														DDaaN	76
														DDaaN	77
														DDaaN	78
														DDaaN	79
														DDaaN	80
DIVISION OF TECHNICAL SERVICES														G	82
														G	83
														G	84

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY		PLANNED COMPLETION				M F A E U C C N T H D MY			RESOURCES				
	I	C	1Q	2Q	3Q	4Q	T	H	D	FF	TF			
										\$1000	\$1000			
4. Division Management (VSA-320-712)(6.8/30.3/192.0)(100/VSA-320-712)	77	C					y	c	a	6.8	30.3	192.0	GGaaa	86
.1 Hold all-hands briefing with Division Director						o							GGaaa	87
.2 Review progress on EEO goals						o							GGaaa	88
.3 Nominate appropriate staff for annual awards ceremony			o	o	o	o							GGaaa	89
.4 Complete personnel evaluations (CS)													GGaaa	90
.5 Complete personnel evaluations (CO)			o		o								GGaaa	91
.6 Meet with Offices/Divisions to review subject areas for special project selection for dissemination					o								GGaaa	92
.7 Conduct workshop on Health Education and Promotion for Local and State Health Departments in conjunction with the Bureau of Health Education, CDC, and the HEW Office of Health Information and Health Promotion				3		6							GGaaa	93
a. Hold workshop			o										GGaaa	94
b. Receive proceedings				o									GGaaa	95
c. Submit proceedings for clearance					o								GGaaa	96
d. Send proceedings to printing office						o							GGaaa	97
OFFICE OF DIRECTOR													GGaaa	98
													I	99
													I	100
													I	101
													I	102
5. Institute Policy (VAA-100-003)(100/VAA-100-003)	80	80					x	c	a	27.0	1.0m	1.7m	IIaaa	103
.1 Conduct program progress reviews			o	o	o	o							IIaaa	104
.2 Select long-term trainees			o										IIaaa	105
.3 Brief CDC for OMB hearings				o									IIaaa	106
.4 Allocate FY '81 resources						o							IIaaa	107
.5 Policy meeting with OSHA			o	o	o	o							IIaaa	108
.6 Policy meeting with MSHA			o	o	o	o							IIaaa	109
.7 Policy meeting with Bur. of Mines			o										IIaaa	110
.8 Policy meeting with EPA				o									IIaaa	111
.9 Policy meeting with CPSC					o								IIaaa	112
.10 Distribute status report on regulations			o	o	o	o							IIaaa	113
.11 Nominate staff for awards						o							IIaaa	114
.12 Complete 25 CS evaluations; complete 16 CO evaluations					o								IIaaa	115
.13 Implement career development program				o									IIaaa	116
.14 Award contracts on cooperative agreements for a program in smoking & the workplace				o									IIaaa	117
													IIaaa	118
													IIaaa	119
													IIaaa	120
													IIaaa	121
													IIaaa	122
													IIaaa	123
													IIaaa	124
													IIaaa	125
													IIaaa	126
													IIaaa	127
													IIaaa	128
													IIaaa	129
													IIaaa	130
													IIaaa	131

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY PLANNED COMPLETION				M F A E U C C N T H D			RESOURCES					
	I	C	1Q	2Q	3Q	4Q	MY	\$1000	\$1000	FF			TF
6. Equal Employment Opportunity (VAA-110-004)(100/VAA-110-004)	80	80					x c a	2.0	11.0	66.6	IIaaa	134	
.1 Assess EEO MITS accomplishment for all Divisions			o	o	o	o					IIaaa	135	
											IIaaa	136	
											IIaaa	137	
											IIaaa	138	
											IIaaa	139	
7. Information (VAA-100-005)(100/VAA-100-005)	80	80					x c a	8.1	89.0	279.0	IIaaa	142	
.1 Status of controlled correspondence											IIaaa	143	
a. Number processed (approx. 500)			125	250	375	500					IIaaa	144	
b. Percent processed with OS guidelines			70	70	70	70					IIaaa	145	
.2 Status of Freedom of Information Requests											IIaaa	146	
a. Number processed											IIaaa	147	
b. Percent processed with OS guidelines			100	100	100	100					IIaaa	148	
.3 Implement information activity			o								IIaaa	149	
											IIaaa	150	
											IIaaa	151	
											IIaaa	152	
OFFICE OF ADMINISTRATIVE AND MANAGEMENT SERVICES											J	154	
											J	155	
											J	156	
8. Office of the Director (VGA-110-033)(100/VGA-110-033)(100/VGA-110-032) (100/VGA-110-035)	80	80					x c a	6.6	1.6m	1.7m	JJaaa	158	
.1 Nominate OAMS staff for awards				o							JJaaa	159	
.2 Award A/E contract for Cincinnati's new building					o						JJaaa	160	
.3 Complete A/E contract for Morgantown's new building											JJaaa	161	
.4 Develop total facilities plan for FY81											JJaaa	162	
.5 Complete carcinogen labs at Ridge coordinate with CDC					o						JJaaa	163	
											JJaaa	164	
											JJaaa	165	
											JJaaa	166	
											JJaaa	167	
											JJaaa	168	
											JJaaa	169	
											JJaaa	170	
9. Financial Management Branch-Rockville (VGE-100-036)(100/VGE-100-036)	80	80					x c a	8.9	34.7	189.7	Jbaaa	173	
.1 Process Rockville and Morgantown travel vouchers for immediate payment from Imprest Fund											Jbaaa	174	
a. Number processed (2,500)			625	1.3k	1.9k	2.5k					Jbaaa	175	
b. Percent processed within 24 hours			95	95	95	95					Jbaaa	176	
.2 Prepare FY '81 budget submission and Congressional briefing books				o							Jbaaa	177	
											Jbaaa	178	
											Jbaaa	179	
											Jbaaa	180	
											Jbaaa	181	
											Jbaaa	182	

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY		PLANNED COMPLETION				M F A E U C C N			RESOURCES				
	I	C	1Q	2Q	3Q	4Q	T	H	D	MY	FF			TF
											\$1000			\$1000
10. Financial Management Branch-Cincinnati (VGE-110-037)(100/VGE-110-037)	80	80					x	c	a	13.6	28.4	253.4	Jbaaa	185
.1 Travel vouchers over \$150 processed for total Institute													Jbaaa	186
a. Number processed (1,000)			250	500	750	1k							Jbaaa	187
b. Percent processed within 5 days			95	95	95	95							Jbaaa	188
.2 Completes 90% of all project milestones			90	90	90	90							Jbaaa	189
													Jbaaa	190
													Jbaaa	191
													Jbaaa	192
													Jbaaa	193
11. Administrative Services Branch-Rockville (VGC-110-042)(100/VGC-110-042)(100/VGC-110-052)	80	80					x	c	a	8.6	198.1	350.7	Jaaaa	196
.1 Process CS & CO (CO Institutewide) personnel actions for OD, OAMS, OPPE in Rockville													Jaaaa	197
a. Number processed (Approx. 400)			100	200	300	400							Jaaaa	198
b. Percent processed within 2 days			95	95	95	95							Jaaaa	199
													Jaaaa	200
													Jaaaa	201
													Jaaaa	202
													Jaaaa	203
12. Administrative Services Branch-Cincinnati (VGD-110-043)(100/VGD-110-043)(100/VGD-110-053)	80	80					x	c	a	30.9	1.6m	2.2m	Jaaaa	206
.1 Process all Cincinnati requisitions													Jaaaa	207
a. Number processed (6,500)			1.6k	3.3k	4.9k	6.5k							Jaaaa	208
b. Percent \$500 & under within 15 workdays			90	90	90	90							Jaaaa	209
c. Percent \$500 to \$4,999 within 30 work days			90	90	90	90							Jaaaa	210
d. Percent \$5000 and above within 60 work days			90	90	90	90							Jaaaa	211
													Jaaaa	212
													Jaaaa	213
													Jaaaa	214
13. Administrative Services Branch-Morgantown (VGB-110-112)(100/VGB-110-112)(100/VGB-113) (100/VGB-110-114)(100/VGB-110-115)	80	80					x	c	a	31.0	865.0	1.4m	Jaaum	217
.1 Process all Morgantown requisitions													Jaaum	218
a. Number requisitions processed (4,000)			1k	2k	3k	4k							Jaaum	219
b. Percent \$500 and under within 15 workdays			90	90	90	90							Jaaum	220
c. Percent \$501 to \$4,999 within 30 workdays			90	90	90	90							Jaaum	221
d. Percent \$5,000 and above within 60 workdays			90	90	90	90							Jaaum	222
													Jaaum	223
													Jaaum	224
													Jaaum	225
													Jaaum	226

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY				PLANNED COMPLETION				M F A E U			RESOURCES			
	I	C	1Q	2Q	3Q	4Q	T	H	D	MY	\$1000	\$1000			
			1Q	2Q	3Q	4Q	T	H	D	MY	\$1000	\$1000			
14. Procurement, Grants & Property Management (VGJ-110-039)(100/VGJ-110-039)	80	80						x	c	a	22	80.3	458.7	Jdaaa	229
														Jdaaa	230
														Jdaaa	231
.1 Contract activity														Jdaaa	232
a. Number of contract requests received from program			46	80	84	84								Jdaaa	233
b. Number of contract awards made during the period by RDCS (includes carryover)			2	20	62	84								Jdaaa	234
.2 Modification activity														Jdaaa	235
a. Number of funded contract modification requests received or initiated during the period			19	30	40	40								Jdaaa	236
b. Number of contract modifications awarded during the period by RDCS			2	10	20	40								Jdaaa	237
.3 Grants activity														Jdaaa	238
a. Renewal awards--research grants			6	17	30	49								Jdaaa	239
b. New awards--research grants			7	14	21	28								Jdaaa	240
c. Renewal awards--traing grants			2	2	27	27								Jdaaa	241
d. New awards--training grants			0	0	0	3								Jdaaa	242
.4 Property management														Jdaaa	243
a. Items purchased (approx. \$2 million)			250	500	750	1k								Jdaaa	244
b. Items re-distributed within NIOSH (approx. \$800,000)			60	120	180	240								Jdaaa	245
c. Items excessed (approx. \$500,000)			40	80	120	160								Jdaaa	246
														Jdaaa	247
15. Management Systems Branch (VGP-110-044)(100/VGP-110-044)(100/VGP-110-048) (100/VGP-110-049)(100/VGP-110-116)	80	80									11.3	258.7	461.3	Jcaaa	248
														Jcaaa	249
														Jcaaa	250
														Jcaaa	251
.1 Award a task order contract to provide data entry, systems analysis, programming services, and program operations for NIOSH Rockville computer users						o								Jcaaa	252
														Jcaaa	253
														Jcaaa	254
														Jcaaa	255
														Jcaaa	256
														Jcaaa	257
														Jcaaa	258
														Jcaaa	259
														Jcaaa	260
														Jcaaa	261
														Jcaaa	262
														Jcaaa	263
														Jcaaa	264
														K	265
														K	266
														K	267
														K	268

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY I C	PLANNED COMPLETION				M F A E U C C N T H D			RESOURCES					
		1Q	2Q	3Q	4Q	MY	\$1000	\$1000	FF	TF				
16. Planning (100/VEA-100-022)	71 C					y c a	5.8	50.8	158.0	Kaaaa	270			
										Kaaaa	271			
.1 Develop program material to brief CDC for OMB hearings on 81 budget		o								Kaaaa	272			
.2 Prepare background papers for strategic planning		o								Kaaaa	273			
.3 Manage strategic planning sessions and prepare follow-up documents			o							Kaaaa	274			
.4 Complete FY82-85 ZBB submission (3 year plan)				o						Kaaaa	275			
.5 Issue FY81 planning guidance for the Institute					o					Kaaaa	276			
.6 Complete FY81 program plans						o				Kaaaa	277			
.7 Complete FY81 project plans						o				Kaaaa	278			
.8 Complete special project for the Director, NIOSH		3	6	9	12					Kaaaa	279			
.9 Complete FY 81 program/project plans						o				Kaaaa	280			
.10 Develop new programs (e.g. workers right to know)			o							Kaaaa	281			
.11 Coordinate special initiatives for FY1980		o								Kaaaa	282			
										Kaaaa	283			
										Kaaaa	284			
17. Evaluation and Control (100/VEA-100-023)	71 C					y c a	5.8	50.8	158.0	Kaaaa	285			
										Kaaaa	286			
.1 Prepared quarterly program analysis		1	2	3	4					Kbaaaa	289			
.2 Interagency Agreements										Kbaaaa	290			
a. number received		10	25	40	50					Kbaaaa	291			
b. percent processed within 10 work days		90	90							Kbaaaa	292			
.3 Unsolicited Proposals										Kbaaaa	293			
a. number received		5	10	15	24					Kbaaaa	294			
b. percent reviewed and summarized within 90 days		100	100	100	100					Kbaaaa	295			
.4 FRA clearances										Kbaaaa	296			
a. number received from Divisions		3	6	9	10					Kbaaaa	297			
b. percent forwarded to CDC within 10 work days		100	100	100	100					Kbaaaa	298			
c. report to Director, OPPE on those in process		1	2	3	4					Kbaaaa	299			
.5 Contract Program Analysis										Kbaaaa	300			
a. initiate study (1Q79)										Kbaaaa	301			
b. final report completed (3Q79)			o							Kbaaaa	302			
.6 Policy Issues concerning access and use of medical records analysis										Kbaaaa	303			
a. award contract (4Q79)										Kbaaaa	304			
b. receive final report			o							Kbaaaa	305			
.7 Prepared Analysis										Kbaaaa	306			
a. hazard alert system		o								Kbaaaa	307			
b. peer review			o							Kbaaaa	308			
c. additional analysis to be determined by Director		o								Kbaaaa	309			
										Kbaaaa	310			
										Kbaaaa	311			
										Kbaaaa	312			
										Kbaaaa	313			
										Kbaaaa	314			
										Kbaaaa	315			
										Kbaaaa	316			

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY		PLANNED COMPLETION				M F A E U C C N			RESOURCES		
	I	C	1Q	2Q	3Q	4Q	T	H	D	MY	FF	TF
											\$1000	\$1000
18. Policy Analysis	80	C					y	c	a			
.1 Respond to requests for short-term analyses			3	6	9	12					Kcaaa	319
.2 Perform policy analyses:											Kcaaa	320
a. energy options assessment			o								Kcaaa	321
b. occupational radiation assessment				o							Kcaaa	322
c. recombinant DNA assessment					o						Kcaaa	323
d. iron and steel industry assessment						o					Kcaaa	324
.3 Develop models:											Kcaaa	325
a. input/output disaggregated to the process level						o					Kcaaa	326
b. linkages between R&D process and workplace social systems						o					Kcaaa	327
c. produce an annual workplace paper							o				Kcaaa	328
											Kcaaa	329
											Kcaaa	330
											Kcaaa	331
											Kcaaa	332

BEHAVIORAL RESEARCH

Division of Biomedical and Behavioral Science

The DBBS objectives in behavioral research are to identify (1) substances that affect behavior and psychomotor and neuromuscular functions, and (2) stress factors in the workplace. The outputs expected from behavioral research will be recommendations for corrective actions and development of control technology projects.

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY	I	C	PLANNED COMPLETION				M F A E U C C N T H D MY			RESOURCES					
				1Q	2Q	3Q	4Q	FF	TF	\$1000	\$1000					
*****BEHAVIORAL RESEARCH*****															b	335
															b	336
															b	337
DIVISION OF BIOMEDICAL AND BEHAVIORAL SCIENCE															B	338
															B	339
															B	340
1. Neurotoxicity of Methyl Bromide (VOB-B24-322) (0.3/3/10) (100/VOB-B24-322)	78	81						k	c	a	1.5	12.0	49.4		Babin	342
.1 Complete study design (1Q78)															Babin	343
.2 Complete Peer review (2Q78)															Babin	344
.3 Instrument study protocol (2Q78)															Babin	345
.4 Initiate animal exposures (3Q79)															Babin	346
.5 Submit progress report to Director, DBBS (1Q81)					o	o	o	o							Babin	347
.6 Perform serial neurobehavioral testing (3Q79, 4Q79)					o	o	o	o							Babin	348
.7 Complete exposures and neurobehavioral tests (1Q81)															Babin	349
.8 Perform terminal sacrifice (1Q81)															Babin	350
.9 Consult Information Office (2Q81)															Babin	351
.10 Complete final report (2Q81)															Babin	352
.11 Submit final project report to Director, DBBS (2Q81)															Babin	353
.12 Submit abstract to Director, NIOSH C1Q800(2Q81)															Babin	354
															Babin	355
															Babin	356
															Babin	357
2. Neurobehavioral Methods for Toxic Agents (VOB-B24-270) (3/125/200) (2/50/200) (1/10/35) (100/VOB-B24-270)	79	83						k	c	a	3.2	78.8	153.2		Babin	358
.1 Consult Information Office					o										Babin	361
.2 Submit progress report to Director, DBBS (1Q,2Q,3Q,4Q81) (1Q,2Q,3Q,4Q82)					o	o	o	o							Babin	362
.3 Complete peer review					o										Babin	363
.4 Finalize protocol					o										Babin	364
.5 Initiate animal testing					o										Babin	365
.6 Initiate animal exposures							o								Babin	366
.7 Complete development of neuromotor tests								o							Babin	367
.8 Perform serial neurobehavioral tests (1Q81) (2Q81) (3Q81) (4Q81) (1Q82) (2Q82)							o	o	o						Babin	368
.9 Complete exposures and behavioral testing (3Q82)															Babin	369
.10 Complete final project report (1Q83)															Babin	370
.11 Submit final project report to Dir., DBBS (2Q83)															Babin	371
.12 Submit abstract to Director, NIOSH (2Q83)															Babin	372
															Babin	373
															Babin	374
															Babin	375
															Babin	376
															Babin	377
															Babin	378
															Babin	379

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY		PLANNED COMPLETION				M F A E U C C N			RESOURCES				
	I	C	1Q	2Q	3Q	4Q	T	H	D	MY	FF TF			
											\$1000	\$1000		
3. Neurobehavioral Interactions of Spray Paint Agents (VOB-B24-272) (3/50/120) (100/VOB-B24-272)	79	81					m	b	a	2.4	293.0	349.1	Babin	382
.1 Complete lab study peer review (3Q79)													Babin	383
.2 Finalize lab study protocol (3Q79)													Babin	384
.3 Receive HSRB clearance of lab study (4Q79)													Babin	385
.4 Initiate human lab study													Babin	386
.5 Consult Information Office													Babin	387
.6 Submit progress report to Director, DBBS (1Q81)													Babin	388
.7 Complete peer review of spray painters field study													Babin	389
.8 Obtain HSRB clearance of Field Study protocol													Babin	390
.9 Submit Field Study RFC to Contracts Office													Babin	391
.10 Award Contract													Babin	392
.11 Complete Human Lab Study (1Q81)													Babin	393
.12 Complete final report on lab study (2Q81)													Babin	394
.13 Receive final report of contract field study (4Q81)													Babin	395
.14 Submit final project report to Director, DBBS (4Q81)													Babin	396
.15 Submit abstract of project to Director, NIOSH (4Q81)													Babin	397
4. Health Effects of Phase Shifts and Stressor Exposure (0.5/18.0/30.0)(100/VOB-G24-768)	80	81								0.5	41.2	53.6	Babin	400
.1 Consult Information Office													Babin	403
.2 Submit progress report to Director, DBBS (1Q,2Q,3Q81)													Babin	404
.3 Complete literature review													Babin	405
.4 Develop study plan													Babin	406
.5 Hold peer review													Babin	407
.6 Complete pilot testing													Babin	408
.7 Initiate testing on main study (1Q81)													Babin	409
.8 Complete testing on main study (2Q81)													Babin	410
.9 Complete data analysis (3Q81)													Babin	411
.10 Submit final project report to Director, DBBS (4Q81)													Babin	412
.11 Submit abstract to Director, NIOSH (4Q81)													Babin	413
													Babin	414
													Babin	415
													Babin	416
													Babin	417

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY		PLANNED COMPLETION				M F A E U C C N			RESOURCES				
	I	C	1Q	2Q	3Q	4Q	T	H	D	MY	FF			TF
											\$1000			\$1000
5. Diagnosis and Amelioration of Mass Psychogenic Illness (VOB-B21-274) (100/VOB-B21-274)	79	80					g	b	a	1.1	12.8	40.1	Babje	420
.1 Consult Information Office			o										Babje	421
.2 Submit progress report to Director, DBBS			o	o	o								Babje	422
.3 Incident Evaluations and Control Strategies													Babje	423
a. Complete individual HHE reports (1Q79) (4Q79)			o	o		o							Babje	424
b. Complete profile for early identification (4Q79)													Babje	425
c. Complete report on prevention and control of incidents													Babje	426
d. Submit abstract to Director, NIOSH C3Q80D													Babje	427
.4 Conference Plan													Babje	428
a. Award contract (2Q79)													Babje	429
b. Hold conference (3Q79)													Babje	430
c. Complete conference proceedings				o									Babje	431
d. Submit abstract of conference report to Director, NIOSH					o								Babje	432
e. Publish conference proceedings						o							Babje	433
.5 Submit overall project report to Director, DBBS						o							Babje	434
						o							Babje	435
													Babje	436
													Babje	437

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY		PLANNED COMPLETION				M F A E U C C N			RESOURCES				
	I	C	1Q	2Q	3Q	4Q	T	H	D	MY	FF			TF
											\$1000			\$1000
6. Studies of Stress Reduction Approaches (VOB-B24-269) (2.7/42/110) (2.5/50/115) (1.2/25/65) (100/VOG-B24-269)	79	83					m	c	a	2.7	51.1	118.3	Babeu	440
.1 Consult Information Office													Babeu	441
.2 Submit progress report to the Director, DBBS (1Q,2Q,3Q,4Q81) (1Q,2Q,3Q,4Q82)(1Q,2Q,3Q83)				o	o	o	o						Babeu	442
.3 Conference on Job Stress													Babeu	443
a. Cosponsor conference with UCLA (1Q79)													Babeu	444
b. Receive conference proceedings (4Q79)													Babeu	445
c. Submit abstract to Director, NIOSH					o								Babeu	446
.4 Worksite Feasibility Evaluations													Babeu	447
a. Purchase analysis/report on follow-up data from work-based stress reduction program					o								Babeu	448
b. Submit abstract to Director, NIOSH								o					Babeu	449
c. Initiate field study on nurses-biofeedback (4Q79)								o					Babeu	450
d. Complete field study on nurses-biofeedback								o					Babeu	451
e. Initiate field study on nurses-relaxation					o								Babeu	452
f. Complete field study on nurses-relaxation (2Q81)													Babeu	453
g. Complete report on nurses-biofeedback and relaxation (4Q81)													Babeu	454
h. Submit abstract on nurses study to Director, NIOSH (1Q82)													Babeu	455
i. Initiate field study on blue collar worker group (1Q82)													Babeu	456
j. Complete field study on blue collar worker group (3Q83)													Babeu	457
k. Complete report on blue collar stress reduction study (4Q83)													Babeu	458
l. Submit abstract to Director, NIOSH (4Q83)													Babeu	459
.5 Submit final project report to Director, DBBS (4Q83)													Babeu	460
.6 Submit abstract to Director, NIOSH (4Q83)													Babeu	461
													Babeu	462
													Babeu	463
													Babeu	464
													Babeu	465
													Babeu	466
													Babeu	467
													Babeu	468
													Babeu	469
													Babeu	470

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY		PLANNED COMPLETION				M F A E U C C N			RESOURCES				
	I	C	1Q	2Q	3Q	4Q	T	H	D	MY	FF TF			
											\$1000	\$1000		
7. Machine-Paced Stress in Postal Workers (VOB-B21-312) (1.0/10/35) (100/VOB-B21-312)	77	81					g	b	a	1.6	48.1	88.0	Babhe	473
.1 Consult Information Office			o										Babhe	474
.2 Submit progress report to Director, DBBS			o	o	o	o							Babhe	475
.3 Longitudinal Study													Babhe	476
a. Submit RFC to Director, DBBS (1Q79)													Babhe	477
b. Obtain HSRB approval (1Q79)													Babhe	478
c. Award contract (3Q79)													Babhe	479
d. Obtain stress strain data (4Q79)(3Q81)			o		o								Babhe	480
e. Award incremental funding				o									Babhe	481
f. Submit final report to Director, DBBS (4Q81)													Babhe	482
g. Submit abstract to Director, NIOSH C4Q800(4Q81)													Babhe	483
.4 National Questionnaire Survey													Babhe	484
a. Obtain HSRB approval (1Q79)													Babhe	485
b. Initiate survey data collection (4Q79)													Babhe	486
c. Complete survey data collection			o										Babhe	487
d. Complete survey data analysis					o								Babhe	488
e. Complete final report survey						o							Babhe	489
f. Submit final report to Director, DBBS (1Q81)								o					Babhe	490
g. Submit abstract to Director, NIOSH (1Q81)													Babhe	491
.5 Human Factors Evaluations													Babhe	492
a. Submit RFC to Director, DBBS (1Q79)													Babhe	493
b. Obtain HSRB approval (1Q79)													Babhe	494
c. Award contracts (3Q79)													Babhe	495
d. Complete site visits			o	o	o								Babhe	496
e. Receive human factors evaluations from contractors						o							Babhe	497
f. Submit final report to Director, DBBS (1Q81)													Babhe	498
g. Submit abstract to Director, NIOSH C4Q800(2Q81)													Babhe	499
													Babhe	500
													Babhe	501
8. Machine-Paced Jol Stress in Poultry Workers (VOB-B21-312) (100/VOB-B21-766)	78	80					g	c	a	0.5	3.2	15.6	Babhe	502
.1 Finalize questionnaire protocol (1Q79)													Babeh	505
.2 Obtain HSRB clearance (1Q79)													Babeh	506
.3 Complete data collection (4Q79)													Babeh	507
.4 Consult Information Office			o										Babeh	508
.5 Submit progress report to Director, DBBS			o	o	o								Babeh	509
.6 Complete data analysis				o									Babeh	510
.7 Complete final report													Babeh	511
.8 Submit final project report to Director, DBBS									o				Babeh	512
.9 Submit abstract of final report to Director, NIOSH C2Q800									o				Babeh	513
									o				Babeh	514
									o				Babeh	515
													Babeh	516
													Babeh	517

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY		PLANNED COMPLETION				M F A E U			RESOURCES				
	I	C	1Q	2Q	3Q	4Q	T	H	D	MY	FF TF			
											\$1000	\$1000		
9. Job Stress in Video Display Operations (VOB-B21-312) (2.0/45/95) (100/VOB-B21-765)	78	81					m	b	a	2.0	64.4	113.0	Babhq	520
.1 Consult Information Office			o										Babhq	521
.2 Submit progress report to Director, DBBS (1Q81)			o	o	o	o							Babhq	522
.3 Laboratory Studies													Babhq	523
a. Complete simulator installation (3Q79)													Babhq	524
b. Initiate laboratory studies (4Q79)													Babhq	525
c. Perform testing of subjects			7	14	21	28							Babhq	526
d. Complete data entry task simulator						o							Babhq	527
e. Obtain HSRB approval for data entry pilot study						o							Babhq	528
f. Complete laboratory studies (4Q81)													Babhq	529
g. Complete data analyses (4Q81)													Babhq	530
h. Complete final report (4Q81)													Babhq	531
i. Submit abstract to Director, NIOSH (4Q81)													Babhq	532
.4 Contract Study													Babhq	533
a. Submit RFC to Director, DBBS (1Q79)													Babhq	534
b. Award contract (3Q79)													Babhq	535
c. Complete data collection								o					Babhq	536
d. Complete final report (2Q81)													Babhq	537
e. Submit abstract to Director, NIOSH C4Q80D(3Q81)													Babhq	538
.5 In-House Worksite Study													Babhq	539
a. Conduct Evaluations of select VDT operations			o										Babhq	540
b. Complete report on evaluations				o									Babhq	541
c. Submit abstract to Director, NIOSH					o								Babhq	542
													Babhq	543
													Babhq	544
													Babhq	545
10. Workshop on Machine-Pacing Stress (0.2/10/15) (100/VOB-B12-769)	80	81					j	a	a	0.2	25.0	30.0	Babhe	548
.1 Submit RFC for Workshop to Director, DBBS			o										Babhe	549
.2 Submit RFC to contracts office			o										Babhe	550
.3 Consult Information Office			o										Babhe	551
.4 Submit progress report to Director, DBBS			o	o	o	o							Babhe	552
.5 Award contract				o									Babhe	553
.6 Hold workshop					o								Babhe	554
.7 Complete transcript of workshop						o							Babhe	555
.8 Submit final project report to Director, DBBS (1Q81)													Babhe	556
.9 Submit abstract to Director, NIOSH (1Q81)													Babhe	557
													Babhe	558
													Babhe	559
													Babhe	560

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY		PLANNED COMPLETION				M F A E U C C N T H D MY			RESOURCES				
	I	C	1Q	2Q	3Q	4Q				FF	TF			
										\$1000	\$1000			
11. Conference on Shiftwork and Health (VOB-B21-273) (100/VOB-B21-273)	79	80					j	d	a	0.2	0.5	5.5	Babhu	563
.1 Submit IA for Conference (1Q79)													Babhu	564
.2 Award IA (1Q79)													Babhu	565
.3 Hold conference (4Q79)													Babhu	566
.4 Submit progress report to Director, DBBS				o	o								Babhu	567
.5 Consult Information Office				o									Babhu	568
.6 Complete conference proceedings					o								Babhu	569
.7 Submit final report to Director, DBBS C2Q80D						o							Babhu	570
.8 Submit abstract to Director, NIOSH						o							Babhu	571
.9 Publish conference proceedings							o						Babhu	572
													Babhu	573
													Babhu	574
													Babhu	575
12. Cancer Risk Control by Behavioral Methods (VOB-C30-304) (0.5/8/24) (100/VOB-C30-304)	77	81					b	a	e	0.4	4.5	19.4	Babce	578
.1 Complete plant site visits (1Q78)													Babce	579
.2 Receive contractor's interim report (4Q78)													Babce	580
.3 Submit OMB clearance package (1Q79)													Babce	581
.4 Receive HSRB approval (2Q79)													Babce	582
.5 Obtain OMB clearance (3Q79)													Babce	583
.6 Consult Information Office				o									Babce	584
.7 Submit contractor's progress report to Director, DBBS (1Q,2Q,3Q81)				o	o	o	o						Babce	585
.8 Implement behavioral program				o									Babce	586
.9 Conduct serial evaluations (1Q81)				o	o		o						Babce	587
.10 Receive contractor's final report (4Q81)				o			o						Babce	588
.11 Submit final project report to Director, DBBS (4Q81)													Babce	589
.12 Submit abstract to Director, NIOSH C2Q81D(4Q81)													Babce	590
													Babce	591
													Babce	592
													Babce	593
													Babce	594

CANCER RESEARCH

Division of Respiratory Disease Studies

The FY 80 DRDS cancer initiative addresses coal miners, coal gasification workers, chemical and other industrial workers routinely exposed to chemical agents either through direct contact or inhalation. Some of those agents might be mutagenic and could induce cancer and/or genetic disorders in the exposed workers. Therefore, a major direction of cancer initiative for FY 80 is mutagenesis research. Chemicals produced in the workplace will be tested, through contract, for their mutagenic activities. The in-house research will focus on development or improvement of mutagenic and carcinogenic test systems, determination of the metabolic fate of procarcinogens in lung tissue, and determination of the effect of low-dose chemical exposure to the workers. Our efforts will include data collection and analysis to determine the potential carcinogenic and other toxic hazards of glass, asbestos, and other fibers to the worker.

Division of Biomedical and Behavioral Science

The DBBS objectives in cancer research are to evaluate specific potential carcinogens in the workplace, and secondarily to investigate some factors that might influence responses to carcinogens or affect the carcinogenicity of workplace environments. The expected output will be identification of situations where additional controls are needed.

Division of Surveillance, Hazard Evaluations, and Field Studies

Overall, the DSHEFS FY 80 cancer research program will continue at essentially the same level of effort as in FY 79 (actually slightly decreasing in manpower and funds). Eleven new projects will be initiated, most of these deriving from problems uncovered during FY 79 Health Hazard Evaluations, the FY 79 DSHEFS emerging problems project, and increased emphasis on surveillance. The FY 80 emerging problems project has been classified as a cancer project since most of the problems emerging so far in FY 79 have been related to carcinogens (tetraethyl lead, fuelmen, brain tumors in Texas City, and the Port Arthur, Texas study). In FY 80, an additional \$50,000 will be devoted to emerging problems under the assumption that the demand for this type of support will increase. DSHEFS low-level radiation program is partially incorporated into this program area (i.e., shipyard workers and search for additional cohorts for mortality studies). (The cytogenic studies involving shipyard workers are in the occupational reproductive hazards program area, and the Three Mile Island registry effort would be included under General Research--Registration of Disease and Exposure Cohorts.) New epidemiologic techniques for mortality studies will be developed and evaluated in this program area.

Division of Physical Sciences and Engineering

Development of measurement devices and analytical methods to assist other NIOSH divisions and regulatory agencies will dominate the DPSE efforts in this program area. The delay in the construction of an in-house carcinogen laboratory has been a problem in conducting some research.

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	M F										RESOURCES			
	A E U										FF	TF		
	I	C	1Q	2Q	3Q	4Q	T	H	D	MY	\$1000	\$1000		
*****CANCER RESEARCH*****													c	597
													c	598
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DIVISION OF RESPIRATORY DISEASE STUDIES													A	600
													A	601
													A	602
1. Morbidity & IH Study of Fibrous Mineral Workers - NCI (VKL-C21-237) (100/VKC-C21-237)	77	80							i c e	0.5	3.8	20.9	Aacfm	604
													Aacfm	605
.1 Complete data analysis on talc													Aacfm	606
.2 Complete final talc report and submit abstract to Director, NIOSH													Aacfm	607
.3 Receive attapulgitte medical data; complete industrial hygiene surveys													Aacfm	608
.4 Complete data analysis on attapulgitte clay													Aacfm	609
.5 Complete final attapulgitte clay report and submit abstract to Director, NIOSH													Aacfm	610
													Aacfm	611
													Aacfm	612
													Aacfm	613
													Aacfm	614
													Aacfm	615
2. In Vitro Mutagenicity Studies (*) (VKC-C23-262) (3.5/237.0/318.1) (3.5/268.0/347.8) (100/VKC-C23-262)	80	82							n b a	3.4	223.4	289.2	Adcns	618
													Adcns	619
.1 Peer review completed													Adcns	620
.2 Submit contract RFC													Adcns	621
.3 Complete the development of uv-sensitive Neurospora tester strains													Adcns	622
.4 Complete the development of cell wall defective Neurospora tester strains													Adcns	623
.5 Award contract													Adcns	624
.6 Complete testing of the applicability of the fluctuation assay system using yeast to detect genetic activity of chemicals found in the work place (1Q81)													Adcns	625
.7 Complete testing of the mutagenicity of chemicals with the new Neurospora tester strains (2Q81)													Adcns	626
.8 Complete the standardization of the 6-thioguananine resistant mutation assay system of CHO cells (3Q81)													Adcns	627
.9 Complete the studies on the activation of promutagens and procarcinogens by alveolar macrophages (4Q81)													Adcns	628
.10 Complete the incorporation of chemically sensitive genetic markers into yeast tester strains (1Q82)													Adcns	629
.11 Complete testing of the chemical sensitivity of new yeasts (3Q82)													Adcns	630
.12 Complete the final report and submit to the Office of the Director													Adcns	631
													Adcns	632
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													Adcns	644

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY				PLANNED COMPLETION				M F			RESOURCES				
	I	C	1Q	2Q	3Q	4Q	T	H	D	MY	FF	TF	\$1000		\$1000	
																A
3. Aromatic Hydrocarbons/Induction of Lung Oxidations (*) (VKC-R24-107) (1.5/35.0/70.0) (1.5/35.0/70.2) (100/VKC-R-24-107)	80	82					k	c	a	2.0	59.8	100.4			Adczt	647
.1 Complete isolation of microsomes from rabbit lung			o												Adczt	648
.2 Complete metabolic potential with a known carcinogen				o											Adczt	649
.3 Complete chromatographic analyses of metabolites from known carcinogen. Submit metabolites for mutagenicity testing					o										Adczt	650
.4 Complete preparation for analysis of test aromatic hydrocarbons						o									Adczt	651
.5 Complete chromatographic analyses of metabolite(s) derived from test aromatic hydrocarbons. (2Q81)															Adczt	652
.6 Submit samples of isolated metabolites for mutagenesis test. (2Q81)															Adczt	653
.7 Complete lung culture cell system and evaluation of viability of cell types. (4Q81)															Adczt	654
.8 Complete preparation for enzyme assay in lung cells. (4Q81)															Adczt	655
.9 Complete evaluation of induction system with a known carcinogen. (1Q82)															Adczt	656
.10 Complete the evaluation of induction potential of test aromatic hydrocarbons. (3Q82)															Adczt	657
.11 Complete Final Report and Abstract to Director, NIOSH (4Q82)															Adczt	658
4. Sister Chromatid Exchange Studies in Workers (VKC-C23-914) (1.5/183.0/97.7) (1.5/70.0/107.4) (100/VKC-C23-914)	80	82					k	c	e	1.5	37.5	88.8			Adczt	659
.1 Complete peer review			o												Adczt	660
.2 Complete development of sister chromatid techniques				o											Adczt	661
.3 Complete in vivo and in vitro assays in the mouse (1Q81)					o										Adczt	662
.4 Complete analysis of worker lymphocytes from first industry (2Q81)															Adczt	663
.5 Complete analysis of worker lymphocytes from second industry (4Q81)															Adczt	664
.6 Complete analysis of worker lymphocytes from third and fourth industries (3Q82)															Adczt	665
.7 Complete final report and submit abstract to Director, NIOSH (4Q82)															Adczt	666
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PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY	PLANNED	COMPLETION				M F			RESOURCES					
			I	C	1Q	2Q	3Q	4Q	A	E	U			FF	TF
									C	C	N				
5. Carcinogenesis Detection Study by Immunologic Means (*) (VKC-C23-125) (100/VKC-C23-125)	77	80						k	c	a	1.1	15.0	40.1	Adczs	691
.1 Complete retesting of seven compounds			o											Adczs	692
.2 Determine sensitivity of system to major chemical groups					o									Adczs	693
.3 Complete final report and submit abstract to Director, NIOSH							o							Adczs	694
														Adczs	695
														Adczs	696
														Adczs	697
														Adczs	698
6. Sampling Methodology for Environmental Mutagens (*) (VKC-C23-120) (100/VKC-C23-120)	78	80						c	c	a	1.7	20.7	56.7	Adczs	701
.1 Complete field sampling					o									Adczs	702
.2 Complete final report and submit abstract to Director, NIOSH							o							Adczs	703
														Adczs	704
														Adczs	705
														Adczs	706
DIVISION OF BIOMEDICAL AND BEHAVIORAL SCIENCE													B	708	
														B	709
														B	710
7. Pathomechanisms of Temperature - Chemical Carcinogenesis (VOK-C24-392)(100/VOK-C24-392)	78	80						k	a	a	0.2	0.3	5.3	Bbcqi	712
.1 Complete peer review (1Q78)														Bbcqi	713
.2 Submit RFC to Contracts Officer (2Q78)														Bbcqi	714
.3 Award contract (210-78-0030) (4Q78)														Bbcqi	715
.4 Monitor contract			o	o										Bbcqi	716
.5 Complete data analysis				o										Bbcqi	717
.6 Receive final report from contractor							o							Bbcqi	718
.7 Consult Information Office														Bbcqi	719
.8 Submit progress report to Director, DBBS			o	o	o									Bbcqi	720
.9 Submit final report to Director, DBBS														Bbcqi	721
.10 Submit abstract of final report to Dir., NIOSH C2Q800														Bbcqi	722
														Bbcqi	723
														Bbcqi	724
														Bbcqi	725
8. Metabolism of Azo Dyes to Aromatic Amines (VOT-C24-393)(100/VOT-C24-393)	80	80						k	d	e	0.1	175.7	178.2	Bdcin	728
.1 Consult Information Office			o											Bdcin	729
.2 Submit draft interagency agreement (IA) to Director, DBBS			o											Bdcin	730
.3 Submit IA to NCTR			o											Bdcin	731
.4 Award IA				o										Bdcin	732
.5 Submit progress report to Director, DBBS			o	o	o									Bdcin	733
.6 Conduct visit				o										Bdcin	734
.7 Complete metabolic, analytical and mutagenic studies							o							Bdcin	735
.8 Receive draft of final report							o							Bdcin	736
.9 Submit final report to Director, DBBS							o							Bdcin	737
.10 Submit abstract of final report to Director, NIOSH							o							Bdcin	738
														Bdcin	739
														Bdcin	740
														Bdcin	741

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY		PLANNED COMPLETION				M F A E U C C N			RESOURCES		Bdctz		
	I	C	1Q	2Q	3Q	4Q	T	H	D	MY	\$1000			\$1000
9. Foundry Particulates: Physical and Chemical Properties (VOT-C24-267)(100/VOT-C24-267)	79	80					k	c	e		0.5	25.0	43.7	744
.1 Complete peer review (1Q79)														745
.2 Complete collection of samples (4Q79)														746
.3 Submit progress report to Director, DBBS			o	o	o									747
.4 Complete size fractionations (initiated 3Q79)			o											748
.5 Nitrogen adsorption surface area studies:														749
a. Initiate			o											750
b. Complete			o											751
.6 Particle size analyses:														752
a. Initiate			o											753
b. Complete			o											754
.7 Bulk chemical analyses:														755
a. Initiate			o											756
b. Complete			o											757
.8 Adsorption capacity studies (benzo(a)pyrene):				o										758
a. Initiate			o											759
b. Complete					o									760
a. Individual particle Energy Dispersive System (EDS) analyses:														761
a. Initiate			o											762
b. Complete					o									763
a. Initiate			o											764
b. Complete					o									765
.9 Consult Information Office				o										766
.10 Submit final project report to Director, DBBS								o						767
.11 Submit abstract of final report to Director, NIOSH								o						768
														769
														770

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY		PLANNED COMPLETION				M F A E U C C N			RESOURCES				
	I	C	1Q	2Q	3Q	4Q	T	H	D	MY	\$1000	\$1000		
10. Chronic Inhalation: Short (C5 um) Asbestos Fibers (VOT-C24-375)(0.1/1.0/3.5)(100/VOT-C24-375)	77	81					k	a	e		0.1	3.0	6.7	Bdctn 773
														Bdctn 774
.1 Submit RFC to contract office (2Q77)														Bdctn 775
.2 Award contract (210-77-0151) (4Q77)														Bdctn 776
.3 Receive quarterly reports (2Q78) (3Q78) (4Q78)														Bdctn 777
.4 Receive quarterly reports (1Q78) (2Q79) (3Q79) (4Q79)														Bdctn 778
.5 Complete 12-month serial sacrifice (3Q79)														Bdctn 779
.6 Hazard data sheet (H.D.S.):														Bdctn 780
a. Develop H.D.S.														Bdctn 781
b. Submit H.D.S. to Director, DBBS														Bdctn 782
c. Submit H.D.S. to all project staff														Bdctn 783
.7 Consult Information Office														Bdctn 784
.8 Submit progress report to Director, DBBS														Bdctn 785
.9 Monitor contract - site visits														Bdctn 786
.10 Conclude 18-month inhalation exposures														Bdctn 787
.11 Perform 18-month serial sacrifice (rats)														Bdctn 788
.12 Perform 24-month terminal sacrifice (rats and monkeys)														Bdctn 789
.13 Complete histologic evaluations														Bdctn 790
.14 Receive draft of contractor's final report (1Q81)														Bdctn 791
.15 Submit final report to Director, DBBS (1Q81)														Bdctn 792
.16 Submit abstract of final report to Director, NIOSH (1Q81)														Bdctn 793
														Bdctn 794
														Bdctn 795

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY		PLANNED COMPLETION				M F A E U			RESOURCES			
	I	C	1Q	2Q	3Q	4Q	T	H	D	MY	FF		TF
											\$1000		\$1000
11. Carcinogenicity of Dimethylformamide (0.1/3/8)(0.1/1/6.5)(0.1/1/7)(100/VOT-C24-800)	80	83					k	a	e	0.1	450.0	453.8	Bdcin 798
.1 Consult Information Office			o										Bdcin 799
.2 Conduct project peer review			o										Bdcin 800
.3 Submit RFC to Director, DBBS			o										Bdcin 801
.4 Submit RFC to Contracting Office			o										Bdcin 802
.5 Award contract			o										Bdcin 803
.6 Submit progress report to Division Director, DBBS (1Q,2Q,3Q,4Q81)(1Q,2Q,3Q,4Q82)(1Q,2Q,3Q83)					o	o							Bdcin 804
.7 Perform maximum tolerated dose (MTD) study					o								Bdcin 805
.8 Monitor contract-site visit (1Q,3Q81)(1Q,3Q82)(1Q83)						o							Bdcin 806
.9 Initiate chronic inhalation exposure study (1Q81)							o						Bdcin 807
.10 Perform 6-month serial sacrifice and serum enzyme evaluations (3Q81)								o					Bdcin 808
.11 Perform 12-month serial sacrifice and serum enzyme evaluations (3Q81)									o				Bdcin 809
.12 Perform 12-month serial sacrifice and serum enzyme evaluations (1Q82)													Bdcin 810
.13 Terminate 18-month inhalation exposure and perform serial sacrifice and serum enzyme evaluations (3Q82)													Bdcin 811
.14 Perform terminal sacrifice and serum enzyme evaluations, 24-month (1Q83)													Bdcin 812
.15 Complete histologic evaluations (2Q83)													Bdcin 813
.16 Receive draft of contractor's final report (3Q83)													Bdcin 814
.17 Submit final report to Director, DBBS (4Q83)													Bdcin 815
.18 Submit abstract of final report to Director, NIOSH (4Q83)													Bdcin 816
													Bdcin 817
													Bdcin 818
													Bdcin 819
													Bdcin 820
													Bdcin 821
													Bdcin 822
													Bdcin 823

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY		PLANNED COMPLETION				M F A E U C C N			RESOURCES				
	I	C	1Q	2Q	3Q	4Q	T	H	D	MY	FF			TF
											\$1000			\$1000
12. Mechanism of Carcinogenicity of Organo-Metal Complexes (VOT-C24-388)(0.5/15/20)(100/VOT-C24-799)	78	81					k	b	e	0.5	30.0	42.5	Bdcin	826
													Bdcin	827
													Bdcin	828
.1 Initiate animal experiments (2Q78)													Bdcin	829
.2 Initiate mutagenic testing program (2Q78)													Bdcin	830
.3 Report on mutagenic testing program (4Q78)													Bdcin	831
.4 Serial intratracheal (I.T.) injections of animals (3Q78)													Bdcin	832
.5 Perform terminal sacrifice of I.T. injected animals from 3Q79 (4Q79)													Bdcin	833
.6 Submit RFC to contract office for trace metal analysis (2Q79)													Bdcin	834
.7 Award contract (4Q79)													Bdcin	835
.8 Hazard data sheet (H.D.S.):													Bdcin	836
a. Develop H.D.S.													Bdcin	837
b. Submit H.D.S. to Director, DBBS													Bdcin	838
c. Submit H.D.S. to all project staff													Bdcin	839
.9 Consult Information Office													Bdcin	840
.10 Perform I.T. injections													Bdcin	841
.11 Perform urinary histamine determinations													Bdcin	842
.12 Ames Test:													Bdcin	843
a. Submit RFC for Ames Test contract to Director, DBBS													Bdcin	844
b. Award Ames Test contract													Bdcin	845
c. Submit samples for Ames Test													Bdcin	846
.13 Complete histologic evaluation of animals sacrificed 4Q79 (2Q81)													Bdcin	847
.14 Submit progress report to Director, DBBS (1Q,2Q,3Q81)													Bdcin	848
.15 Review contractor's report on results of Ames Test (1Q81)													Bdcin	849
.16 Perform terminal sacrifice of I.T. injected rats from 1Q80 (3Q81)													Bdcin	850
.17 Complete histologic evaluations and final project report (4Q81)													Bdcin	851
.18 Submit final project report to Director, DBBS (4Q81)													Bdcin	852
.19 Submit abstract of final report to Dir., NIOSH C4Q80D(4Q81)													Bdcin	853
													Bdcin	854
													Bdcin	855
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													Bdcin	857
													Bdcin	858
													Bdcin	859

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY		PLANNED COMPLETION				M F A E U C C N			RESOURCES				
	I	C	1Q	2Q	3Q	4Q	T	H	D	MY	FF			TF
											\$1000			\$1000
13. Co-Carcinogenicity of Foundry Particulates -- NCI (V00-C24-289)(0.1/0.9/4.6)(0.1/0.9/4.6)(100/V00-C24-289)	79	82					k	a	e	0.1	1.5	5.2	Bccin	862
.1 Complete literature search and peer review (1Q79)													Bccin	863
.2 Submit RFC to contract office (2Q79)													Bccin	864
.3 Award contract (210-79-0036) (4Q79)													Bccin	865
.4 Consult Information Office				o									Bccin	866
.5 Initiate animal treatments				o									Bccin	867
.6 Complete 15 weekly administrations of test material				o	o								Bccin	868
.7 Submit contractor's progress report to Director, DBBS (1Q,2Q,3Q,4Q81)(1Q82)				o	o	o	o						Bccin	869
.8 Perform terminal sacrifice (3Q81)													Bccin	870
.9 Complete pathology evaluation (1Q82)													Bccin	871
.10 Review draft Final Report (1Q82)													Bccin	872
.11 Submit final report to Director, DBBS (2Q82)													Bccin	873
.12 Submit abstract final report to Director, NIOSH C4Q81D(2Q82)													Bccin	874
.13 Submit manuscript for publication in scientific journal (4Q82)													Bccin	875
													Bccin	876
													Bccin	877
													Bccin	878
													Bccin	879
													Bccin	880
14. Fibrogenic Responses and Pulmonary Carcinogenesis - NCI (V00-C24-290)(0.1/1.3/5.0)(0.1/1.5/5.2)(100/V00-C24-290)	79	82					k	b	e	0.1	2.9	6.6	Bcctn	883
.1 Conduct peer review (1Q79)													Bcctn	884
.2 Submit RFC to contract office (1Q79)													Bcctn	885
.3 Award contract (210-79-0038) (4Q79)													Bcctn	886
.4 Consult Information Office				o									Bcctn	887
.5 Obtain and characterize particulates to be supplied to contractor				o									Bcctn	888
.6 Initiate experimental work				o									Bcctn	889
.7 Submit contractor's progress report to Director, DBBS (1Q,2Q,3Q,4Q81)(1Q,2Q82)				o	o	o	o						Bcctn	890
.8 Complete experimental work (1Q82)													Bcctn	891
.9 Complete histopathology (2Q82)													Bcctn	892
.10 Review draft final report (3Q82)													Bcctn	893
.11 Submit final report to Director, DBBS (3Q82)													Bcctn	894
.12 Submit abstract of final report to Director, NIOSH (3Q82)													Bcctn	895
													Bcctn	896
													Bcctn	897
													Bcctn	898
													Bcctn	899
													Bcctn	900

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY		PLANNED COMPLETION				M F		RESOURCES		Bccin			
	I	C	1Q	2Q	3Q	4Q	A	E	FF	TF				
							C	N	MY	\$1000			\$1000	
15. Tumorigenicity of Nitroaliphatics (V00-C24-308)(3.4/50/177)(1.0/7.7/45)(100/V00-C24-308)	78	82					k	c	e	3.4	60.0	187.0	903	
.1 Complete peer review (2Q78)													Bccin	904
.2 Standardize and calibrate new inhalation chambers (4Q79)													Bccin	905
.3 Consult Information Office				o									Bccin	906
.4 Submit wastewater treatment RFC to contracting office				o									Bccin	907
.5 Conduct range-finding studies				o									Bccin	908
.6 Initiate inhalation exposures (1-nitropropane, 2-nitropropane, 2-bromo-2-nitropropane-1,3-diol)					o								Bccin	909
.7 Perform 1-month sacrifice (pathology, hematology and clinical chemistry)					o								Bccin	910
.8 Perform 3-month sacrifice (pathology, hematology and clinical chemistry)						o							Bccin	911
.9 Perform 6-month sacrifice (pathology, hematology and clinical chemistry)								o					Bccin	912
.10 Award wastewater treatment contract													Bccin	913
.11 Submit progress report to Director, DBBS (1Q,2Q,3Q,4Q,81) (1Q,2Q,3Q82)				o	o	o	o						Bccin	914
.12 Perform 12-month sacrifice (pathology, hematology and clinical chemistry) (2Q81)													Bccin	915
.13 Complete wastewater treatment facility (1Q81)													Bccin	916
.14 Perform 18-month sacrifice (pathology, hematology and clinical chemistry) (4Q81)													Bccin	917
.15 Complete inhalation exposures (4Q81)													Bccin	918
.16 Perform 24-month sacrifice (pathology, hematology and clinical chemistry)(2Q82)													Bccin	919
.17 Complete pathology reports (3Q82)													Bccin	920
.18 Complete data analysis (4Q82)													Bccin	921
.19 Submit final project report to Director, DBBS (4Q82)													Bccin	922
.20 Submit abstract of final report to Dir., NIOSH C2Q81D(4Q82)													Bccin	923
													Bccin	924
													Bccin	925
													Bccin	926
													Bccin	927
													Bccin	928
													Bccin	929
													Bccin	930
													Bccin	931
													Bccin	932
													Bccin	933
													Bccin	934

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY		PLANNED COMPLETION				M F A E U C C N T H D			RESOURCES			
	I	C	1Q	2Q	3Q	4Q	MY	FF	TF	\$1000	\$1000		
16. Distribution and Metabolism of Nitropropanes (V00-G24-284)(0.2/2.0/7.0)(100/V00-G24-284)	79	81					k c a	2.0	35.0	85.0	Bccin	937	
.1 Complete peer review (1Q79)											Bccin	938	
.2 Complete methods development for 2-ethoxyethanol (1Q79)											Bccin	939	
.3 Complete study of the biotransformation of 2-ethoxyethanol (4Q79)											Bccin	940	
.4 Publish manuscript/technical report (4Q79)											Bccin	941	
.5 Consult Information Office											Bccin	942	
.6 2-Nitropropane Studies			o								Bccin	943	
a. Develop Hazard Data Sheet (H.D.S.)			o								Bccin	944	
b. Submit H.D.S. to Director, DBBS			o								Bccin	945	
c. Submit H.D.S. to project staff			o								Bccin	946	
d. Initiate tissue distribution study			o								Bccin	947	
e. Complete tissue distribution study				o							Bccin	948	
f. Initiate liver macromolecular binding study				o							Bccin	949	
g. Complete liver macromolecular binding study					o						Bccin	950	
.7 1-Nitropropane Studies											Bccin	951	
a. Develop H.D.S.			o								Bccin	952	
b. Submit H.D.S. to Director, DBBS				o							Bccin	953	
c. Submit H.D.S. to project staff				o							Bccin	954	
d. Initiate tissue distribution study				o							Bccin	955	
e. Complete tissue distribution study					o						Bccin	956	
f. Initiate liver macromolecular binding study						o					Bccin	957	
g. Complete liver macromolecular binding study						o	o				Bccin	958	
.8 Submit progress report to Director, DBBS			o	o	o						Bccin	959	
.9 Submit final project report to Director, DBBS (1Q81)											Bccin	960	
.10 Submit abstract of final report to Dir., NIOSH C1Q80D(1Q81)											Bccin	961	
.11 Publish manuscript/technical report (1Q81)											Bccin	962	
											Bccin	963	
											Bccin	964	
											Bccin	965	
											Bccin	966	

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY		PLANNED COMPLETION				M F A E U C C N			RESOURCES			
	I	C	1Q	2Q	3Q	4Q	T	H	D	MY	FF		TF
											\$1000		\$1000
17. Workshop on the Role of Metals in Carcinogenesis (V00-C24-287)(100/V00-C24-287)	78	80					J	a	e	0.1	0.5	4.2	Bcciz 969
.1 Complete peer review (1Q79)													Bcciz 970
.2 Submit RFC to contract office (3Q79)													Bcciz 971
.3 Award contract (210-79-0039) (4Q79)													Bcciz 972
.4 Consult Information Office				o									Bcciz 973
.5 Contact speakers				o									Bcciz 974
.6 Secure workshop/conference facilities				o									Bcciz 975
.7 Finalize speakers, timetable, agenda				o									Bcciz 976
.8 Distribute announcements					o								Bcciz 977
.9 Conduct workshop/conference					o								Bcciz 978
.10 Review and edit all reports and papers						o							Bcciz 979
.11 Submit progress report to Director, DBBS				o	o	o							Bcciz 980
.12 Submit final report to Director, DBBS									o				Bcciz 981
.13 Submit abstract of final report to Dir., NIOSH C2Q80D									o				Bcciz 982
.14 Publish proceedings									o				Bcciz 983
									o				Bcciz 984
									o				Bcciz 985
													Bcciz 986
18. Foundry Mold Sand Pyrolysis Effluent - Carcinogenesis - NCI (V00-C24-397)(0.1/0.6/4.3)(0.1/0.6/4.3)(100/V00-C24-397)	78	82					k	a	e	0.1	86.0	89.7	Bcctn 989
.1 Complete peer review (1Q78)													Bcctn 990
.2 Submit RFC to contract office (2Q78)													Bcctn 991
.3 Award contract (210-78-0033) (3Q78)													Bcctn 992
.4 Initiate experimental protocol (1Q79)													Bcctn 993
.5 Complete contract modification to include additional binder (furan)(1Q79)													Bcctn 994
.6 Consult Information Office				o									Bcctn 995
.7 Complete analytical phases				o		o							Bcctn 996
.8 Initiate intratracheal injections					o								Bcctn 997
.9 Complete intratracheal injections						o							Bcctn 998
.10 Submit progress report to Dir., DBBS (1Q,2Q,3Q,4Q,81) (1Q81)(2Q81)				o	o	o	o						Bcctn 999
.11 Complete 18-month sacrifice of all animals (4Q81)													Bcctn 1000
.12 Complete pathology (2Q82)													Bcctn 1001
.13 Receive draft final report (2Q82)													Bcctn 1002
.14 Submit final report to Director, DBBS (3Q82)													Bcctn 1003
.15 Submit abstract of final report to Dir., NIOSH C3Q81D(4Q82)													Bcctn 1004
.16 Submit manuscript for publication in scientific journal (4Q82)													Bcctn 1005
													Bcctn 1006
													Bcctn 1007
													Bcctn 1008
													Bcctn 1009
													Bcctn 1010
													Bcctn 1011

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY		PLANNED COMPLETION				M F A E U C C N T H D			RESOURCES				
	I	C	1Q	2Q	3Q	4Q	MY	\$1000	\$1000	FF	TF			
19. Machine Oils and Nitrosamines-Carcinogenesis -- NCI (V00-C24-300)(0.1/0.5/4.2)(100/V00-C24-300)	77	81					k b e	0.2	3.0	10.5	Bccin	1014		
.1 Complete peer review (1Q77)											Bccin	1015		
.2 Submit RFC to contract office (2Q77)											Bccin	1016		
.3 Award contract (210-77-0136) (4Q77)											Bccin	1017		
.4 Initiate skin painting (2Q78)											Bccin	1018		
.5 Complete 3-month skin painting (3Q78)											Bccin	1019		
.6 Complete 6-month skin painting (4Q78)											Bccin	1020		
.7 Complete 9-month skin painting (1Q79)											Bccin	1021		
.8 Complete 12-month skin painting (2Q79)											Bccin	1022		
.9 Complete 15-month skin painting (3Q79)											Bccin	1023		
.10 Complete 18-month skin painting (4Q79)											Bccin	1024		
.11 Consult Information Office											Bccin	1025		
.12 Perform terminal sacrifice			o								Bccin	1026		
.13 Complete Pathology				o							Bccin	1027		
.14 Submit contractor's progress report to Director, DBBS			o	o	o	o					Bccin	1028		
.15 Initiate in-house repeat of Group III 17 week toxicity study					o						Bccin	1029		
.16 Complete in-house toxicity study						o					Bccin	1030		
.17 Review draft final report (1Q81)							o				Bccin	1031		
.18 Review final report (1Q81)											Bccin	1032		
.19 Submit final report to Director, DBBS (2Q81)											Bccin	1033		
.20 Submit abstract of final report to Dir., NIOSH C2Q800 (2Q81)											Bccin	1034		
.21 Submit manuscript for publication in scientific journal (3Q81)											Bccin	1035		
											Bccin	1036		
											Bccin	1037		
											Bccin	1038		
											Bccin	1039		

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY		PLANNED COMPLETION				M F A E U C C N			RESOURCES			
	I	C	1Q	2Q	3Q	4Q	T	H	D	MY	FF \$1000		TF \$1000
20. Roofing Asphalts, Pitch and UVL -- Carcinogenesis - NCI (V00-C24-399)(0.1/1.6/5.3)(100/V00-C24-399)	78	81					k	a	e	0.1	1.8	5.5	Bccin 1042
.1 Complete peer review (1Q78)													Bccin 1043
.2 Submit RFC to contracting office (2Q78)													Bccin 1044
.3 Award contract (210-78-0035) (4Q78)													Bccin 1045
.4 Initiate skin painting studies (2Q79)													Bccin 1046
.5 Consult Information Office													Bccin 1047
.6 Complete 6-months skin painting													Bccin 1048
.7 Complete 9-months skin painting													Bccin 1049
.8 Complete 12-months skin painting													Bccin 1050
.9 Complete 15-months skin painting													Bccin 1051
.10 Submit contractor's progress report to Dir., DBBS (1Q81)													Bccin 1052
.11 Complete 18 months skin painting and terminal sacrifice (1Q81)													Bccin 1053
.12 Complete pathology (2Q81)													Bccin 1054
.13 Review draft final report (2Q81)													Bccin 1055
.14 Submit final report to Director, DBBS (4Q81)													Bccin 1056
.15 Submit abstract of final report to Dir., NIOSH C2Q81D(4Q81)													Bccin 1057
.16 Submit manuscript for publication in scientific journal (4Q81)													Bccin 1058
21. Carcinogenicity of Aromatic Amines - Azo Dyes (V00-C24-395)(0.2/1.0/6)(0.2/1.4/6.4)(100/V00-C24-395)	77	82					k	a	a	0.3	0.6	8.1	Bccin 1059
.1 Complete peer review (1Q78)													Bccin 1060
.2 Submit RFC to contract office (2Q78)													Bccin 1061
.3 Award contract (210-78-0032) (3Q78)													Bccin 1062
.4 Initiate subchronic study (3Q79)													Bccin 1063
.5 Complete subchronic study (4Q79)													Bccin 1064
.6 Consult Information Office													Bccin 1065
.7 Initiate chronic feeding studies and IT dosing													Bccin 1066
.8 Complete IT dosing													Bccin 1067
.9 Submit contractor's progress report to Director, DBBS (1Q,2Q,3Q,4Q,81)(1Q82)													Bccin 1068
.10 Complete chronic feeding studies (3Q81)													Bccin 1069
.11 Complete sacrifice of rats and hamsters (4Q81)													Bccin 1070
.12 Complete pathology (1Q82)													Bccin 1071
.13 Review draft final report from contractor (2Q82)													Bccin 1072
.14 Submit final report to Dir., DBBS C4Q81D(2Q82)													Bccin 1073
.15 Submit abstract of final report to Director, NIOSH (2Q82)													Bccin 1074
													Bccin 1075
													Bccin 1076
													Bccin 1077
													Bccin 1078
													Bccin 1079
													Bccin 1080
													Bccin 1081
													Bccin 1082
													Bccin 1083
													Bccin 1084
													Bccin 1085
DIVISION OF SURVEILLANCE, HAZARD EVALUATIONS AND FIELD STUDIES													C 1087
													C 1088
													C 1089

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY		PLANNED COMPLETION				M F A E U C C N			RESOURCES				
	I	C	1Q	2Q	3Q	4Q	T	H	D	MY	\$1000			\$1000
22. Mortality and Industrial Hygiene Study of Shipyard Workers Exposed to Radiation (6.0/164.0/300.0) (100/VMH-C22-629)	79	81					i	c	a	6.1	200	336	Cbcrr	1091
.1 Complete walk-through surveys of other shipyards and job history coding.			o										Cbcrr	1092
.2 Complete post office follow-up.				o									Cbcrr	1093
.3 Complete nosology coding.					o								Cbcrr	1094
.4 Complete final report on cohort mortality study; transmit abstract to Director, NIOSH and copy to DTS						o							Cbcrr	1095
.5 Complete case control study and transmit abstract to Director, NIOSH and copy to DTS (3Q81)													Cbcrr	1096
													Cbcrr	1097
													Cbcrr	1098
													Cbcrr	1099
													Cbcrr	1100
													Cbcrr	1101
													Cbcrr	1102
													Cbcrr	1103
23. Medical, Biomedical and Industrial Hygiene Study of Emerging Problems (100/VMH-C21-600)	80	80					i	c	a	12.3	125	399	CbcN	1106
.1 Respond to emerging problems			2	4	6	8							CbcN	1107
.2 Complete reports on action taken and close out file			1	3	4	5							CbcN	1108
.3 Recommend that additional study is needed and initiate action.				1	2	3							CbcN	1109
													CbcN	1110
													CbcN	1111
													CbcN	1112
													CbcN	1113
													CbcN	1114
24. Access to NOHS Data Base: Information Profile Development (100/VMO-C11-632)	79	C					w	c	e	1.5	150	200	CccwN	1117
.1 Process requests for NOHS information.			40	80	120	160							CccwN	1118
.2 Develop information profiles on hazards, industries and occupations.			500	1k	1.5k	2k							CccwN	1119
.3 Publish a base-wide summary of exposure estimates					o								CccwN	1120
													CccwN	1121
													CccwN	1122
													CccwN	1123
													CccwN	1124
25. Development of Trade Name Ingredient Data Base (100/VMO-C11-510)	78	80					w	c	e	2.5	120	204	Cccwi	1127
.1 Provide formulation information on request.			200	400	600	800							Cccwi	1128
.2 Complete identification of system modifications necessary to clarify products noted in NOHS-2.				o									Cccwi	1129
.3 Complete implementation of system modifications.									o				Cccwi	1130
													Cccwi	1131
													Cccwi	1132
													Cccwi	1133
													Cccwi	1134

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY	I	C	PLANNED COMPLETION				M F A E U C C N T H D				RESOURCES					
				1Q	2Q	3Q	4Q	MY	FF	TF	\$1000	\$1000					
26. Mapping Chemical Exposures: Atlas of Potential Risk (100/VMO-C11-630)	79		80							w	c	e	2.0	100	167	Cccwi	1137
																Cccwi	1138
																Cccwi	1139
.1 Complete development of sets of common-effect chemicals for mapping.																Cccwi	1140
.2 Complete mapping of these chemicals.																Cccwi	1141
.3 Complete final report and transmit abstract to Director, NIOSH and copy to DTS.																Cccwi	1142
																Cccwi	1143
																Cccwi	1144
																Cccwi	1145
27. Utilization of Full File for Survey/Sampling Decisions (100/VMO-C11-508)	78		C							w	b	e	0.5	140	157	Cccwi	1148
																Cccwi	1149
																Cccwi	1150
.1 Complete organization of file to accommodate use as a sampling frame for NOHS-2.																Cccwi	1151
.2 Submit RFC to OAMS for purchase of full file.																Cccwi	1152
.3 Award contract.																Cccwi	1153
.4 Service requests for industry profiles, etc.																Cccwi	1154
																Cccwi	1155
				20	40	60	80									Cccwi	1156
28. Registry Based Occupational Cancer Surveillance - Phase I (0.3/15.0/22.0) (100/VMO-C11-532)	78		81							w	a	a	0.3	60	67	Cccww	1159
																Cccww	1160
																Cccww	1161
.1 Obtain OMB clearance for questionnaire (contract 210-78-0070).																Cccww	1162
.2 Initiate case identification.																Cccww	1163
.3 Initiate interview administration.																Cccww	1164
.4 Complete final report and transmit abstract to Director, NIOSH and copy to DTS (4Q81).																Cccww	1165
																Cccww	1166
																Cccww	1167
																Cccww	1168
29. Cancer Surveillance of Occupational Cohorts in a Western SMSA (100/VMO-C11-530)	77		80							w	a	e	0.2	2	9	Cccww	1171
																Cccww	1172
																Cccww	1173
.1 Receive final report from contractor (210-78-0072)																Cccww	1174
.2 Complete final report and transmit abstract to Director, NIOSH and copy to DTS.																Cccww	1175
																Cccww	1176
																Cccww	1177

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY PLANNED COMPLETION				M F A E U C C N			RESOURCES						
	I	C	1Q	2Q	3Q	4Q	T	H	D			MY	\$1000	\$1000
30. Mortality Study of Increased Incidence of Brain Tumors in Texas City, Texas (3.0/33.0/100.0) (100/VMH-C22-653)	80	81					h	c	a	3.0	71	138	Cbccc	1180
.1 Complete case finding.			o										Cbccc	1181
.2 Complete case control study.				o									Cbccc	1182
.3 Complete Proportionate Mortality Ratio study.				o									Cbccc	1183
.4 Complete final reports on PMR and case control studies.					o								Cbccc	1184
.5 Complete final report on retrospective cohort mortality study and transmit abstract to Director, NIOSH and copy to DTS (2Q81).						o							Cbccc	1185
													Cbccc	1186
													Cbccc	1187
													Cbccc	1188
													Cbccc	1189
													Cbccc	1190
													Cbccc	1191
31. Case Control Study and Ophthalmology Survey of Plant in Charleston, West Virginia (100/VMH-C22-678)	77	80					i	c	e	0.7	50	73	Cbcii	1194
.1 Complete development of job dictionary.			o										Cbcii	1195
.2 Complete acquisition of death certificates.				o									Cbcii	1196
.3 Complete final report on follow-up eye examinations and transmit abstract to Director, NIOSH and copy to DTS.					o								Cbcii	1197
.4 Complete final report on case control study and transmit abstract to Director, NIOSH and copy to DTS.							o						Cbcii	1198
													Cbcii	1199
													Cbcii	1200
													Cbcii	1201
													Cbcii	1202
													Cbcii	1203
													Cbcii	1204
32. Mortality, Medical and Industrial Hygiene Study of Workers Exposed to Wood Preservatives (2.0/52.0/100.0) (1.0/28.0/50.0) (100/VMH-C21-654)	80	82					i	c	a	0.5	59	70	Cbcii	1207
.1 Complete feasibility study for mortality investigation.			o										Cbcii	1208
.2 Complete tripartite and peer review.					o								Cbcii	1209
.3 Complete data collection for mortality study.					o								Cbcii	1210
.4 Initiate walk-through surveys for medical studies.						o							Cbcii	1211
.5 Complete vital status follow-up for mortality study (4Q81).							o						Cbcii	1212
.6 Complete final report and transmit abstract to Director, NIOSH and copy to DTS (4Q82).													Cbcii	1213
													Cbcii	1214
													Cbcii	1215
													Cbcii	1216
													Cbcii	1217
													Cbcii	1218
33. Mortality and Industrial Hygiene of Aluminum Reduction Workers (100/VMH-C22-653)	76	80					i	c	a	0.6	10	23	Cbcii	1221
.1 Complete data analysis.					o								Cbcii	1222
.2 Complete final report and transmit abstract to Director, NIOSH and copy to DTS.						o							Cbcii	1223
													Cbcii	1224
													Cbcii	1225
													Cbcii	1226
													Cbcii	1227

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY		PLANNED COMPLETION				M F			RESOURCES		Cbcii		
	I	C	1Q	2Q	3Q	4Q	A	E	U	FF	TF			
							C	C	N					
							T	H	D	MY	\$1000	\$1000		
34. Mortality Study of Workers in the Plywood, Paper and Pulp Industry (100/VMH-C22-617)	76	80					h	b	e	0.2	30	37	Cbcii	1230
.1 Complete data analysis				o									Cbcii	1231
.2 Complete final report and transmit abstract to Director, NIOSH and copy to DTS.						o							Cbcii	1232
													Cbcii	1233
													Cbcii	1234
													Cbcii	1235
													Cbcii	1236
													Cbcii	1237
35. Mortality, Medical and Industrial Hygiene Study of Nitrosamines (1.3/40.0/83.0) (100/VMH-C22-574)	77	81					i	b	e	1.3	212	255	Cbcii	1240
.1 Complete final report on initial contract industrial hygiene surveys (210-77-100) and transmit abstract to Director, NIOSH and copy to DTS.				o									Cbcii	1241
.2 Complete data collection for FY-79 contract modification						o							Cbcii	1242
.3 Complete final report for (.2) above and transmit abstract to Director, NIOSH and copy to DTS.									o				Cbcii	1243
.4 Submit RFC to OAMS for additional site visits.				o									Cbcii	1244
.5 Award contract for (.4) above.									o				Cbcii	1245
.6 Complete final report for (.4) above and transmit abstract to Director, NIOSH and copy to DTS (4Q81).													Cbcii	1246
													Cbcii	1247
													Cbcii	1248
													Cbcii	1249
													Cbcii	1250
													Cbcii	1251
													Cbcii	1252
													Cbcii	1253
													Cbcii	1254
36. Mortality and Industrial Hygiene Study of Perchloroethylene Workers (100/VMH-C21-547)	77	80					i	b	e	0.3	10	20	Cbcii	1257
.1 Complete industrial hygiene composite report.				o									Cbcii	1258
.2 Obtain master file from contractor (210-77-0094)					o								Cbcii	1259
.3 Complete data interpretations.						o							Cbcii	1260
.4 Complete final report and transmit abstract to Director, NIOSH and copy to DTS.									o				Cbcii	1261
													Cbcii	1262
													Cbcii	1263
													Cbcii	1264
													Cbcii	1265
													Cbcii	1266
37. Epidemiologic Methods Development (100/VMH-C23-655)	80	80					i	c	a	0.2	40	45	Cbcii	1269
.1 Complete PMR evaluation for study with deaths known only to union or company.				o									Cbcii	1270
.2 Complete expansion of master file format.					o								Cbcii	1271
.3 Complete revision of output format.						o							Cbcii	1272
.4 Complete final report and transmit abstract to Director, NIOSH and copy to DTS.									o				Cbcii	1273
													Cbcii	1274
													Cbcii	1275
													Cbcii	1276
													Cbcii	1277
													Cbcii	1278

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY		PLANNED COMPLETION				M F A E U C C N			RESOURCES				
	I	C	1Q	2Q	3Q	4Q	T	H	D	MY	\$1000			\$1000
38. Mortality, Medical and Industrial Hygiene Study of Painting Trades (1.0/12.0/46.0) (1.0/12.0/46.0) (100/VMH-C22-559)	75	82					i	b	e	1.6	5	58	Cbcii	1281
.1 Receive from contractor (210-77-0096) detailed protocol for mortality and industrial hygiene studies.			o										Cbcii	1282
.2 Initiate above studies.													Cbcii	1283
.3 Initiate medical study (2Q81).					o								Cbcii	1284
.4 Complete (.1) and (.3) above (3Q81).													Cbcii	1285
.5 Complete final report and transmit abstract to Director, NIOSH and copy to DTS (4Q82).													Cbcii	1286
													Cbcii	1287
													Cbcii	1288
													Cbcii	1289
													Cbcii	1290
													Cbcii	1291
													Cbcii	1292
39. Mortality and Industrial Hygiene Study of Workers Exposed to Styrene (0.7/8.0/90.0) (100/VMH-C21-570)	77	81					i	c	e	0.7	30	53	Cbcii	1295
.1 Complete coding of work history information.				o									Cbcii	1296
.2 Complete vital status follow-up.					o								Cbcii	1297
.3 Complete data analysis.						o							Cbcii	1298
.4 Complete final report and transmit abstract to Director, NIOSH and copy to DTS (1Q81).													Cbcii	1299
													Cbcii	1300
													Cbcii	1301
													Cbcii	1302
													Cbcii	1303
													Cbcii	1304
40. Mortality, Medical and Industrial Hygiene Study of Workers Exposed to PCBs (100/VMH-C21-545)	78	80					i	c	e	0.4	10	23	Cbcii	1307
.1 Complete medical data analysis.				o									Cbcii	1308
.2 Complete final medical report and transmit abstract to Director, NIOSH and copy to DTS.					o								Cbcii	1309
													Cbcii	1310
													Cbcii	1311
													Cbcii	1312
													Cbcii	1313
													Cbcii	1314
41. Mortality, Medical and Industrial Hygiene Study of Goldminers Exposed to Asbestiform Minerals (100/VMH-C21-596)	75	80					i	b	e	0.3	23	33	Cbcii	1317
.1 Receive final report on mortality study from contractor (210-76-230).					o								Cbcii	1318
.2 Complete final report on industrial hygiene and mortality study and transmit abstract to Director, NIOSH and copy to DTS.						o							Cbcii	1319
													Cbcii	1320
													Cbcii	1321
													Cbcii	1322
													Cbcii	1323
													Cbcii	1324
													Cbcii	1325
													Cbcii	1326

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY		PLANNED COMPLETION				M F A E U C C N T H D			RESOURCES			
	I	C	1Q	2Q	3Q	4Q	MY	\$1000	\$1000				
42. Mesothelioma Registry (0.5/50.0/67.0) (0.5/50.0/67.0) (100/VMO-C11-677)	80	82					w b e	0.5	100	117	Ccccc	1329	
.1 Complete peer review			o								Ccccc	1330	
.2 Submit RFC to OAMS.				o							Ccccc	1331	
.3 Award contract.						o					Ccccc	1332	
.4 Receive final report from contractor (4Q81).											Ccccc	1333	
.5 Complete final report and transmit abstract to Director, NIOSH and copy to DTS (4Q82).											Ccccc	1334	
											Ccccc	1335	
											Ccccc	1336	
											Ccccc	1337	
											Ccccc	1338	
43. Mortality and Industrial Hygiene Study of Workers Exposed to Tetra Ethyl Lead (0.6/37.0/50.0) (100/VMH-C21-656)	80	81					i c a	0.6	30	43	Cbcii	1341	
.1 Complete microfilming records.			o								Cbcii	1342	
.2 Complete walk-through surveys.				o							Cbcii	1343	
.3 Complete exposure assessment.					o						Cbcii	1344	
.4 Complete follow-up, death certificates and pathology report attainment.						o					Cbcii	1345	
.5 Complete final report and transmit abstract to Director, NIOSH and copy to DTS (4Q81).											Cbcii	1346	
											Cbcii	1347	
											Cbcii	1348	
											Cbcii	1349	
											Cbcii	1350	
											Cbcii	1351	
											Cbcii	1352	
44. Industrial Hygiene Study of Beryllium-Copper Exposures (0.1/2.0/3.0) (100/VMH-C21-679)	80	81					f c e	0.4	6	19	Cbcii	1355	
.1 Complete study of Beryllium Case Registry to identify Be-Cu cases.			o								Cbcii	1356	
.2 Complete statistical analysis of Be-Cu cases.				o							Cbcii	1357	
.3 Complete walk-through surveys of companies still in existence.					o						Cbcii	1358	
.4 Complete air sampling.						o					Cbcii	1359	
.5 Complete final report and transmit abstract to Director, NIOSH and copy to DTS (1Q81).											Cbcii	1360	
											Cbcii	1361	
											Cbcii	1362	
											Cbcii	1363	
											Cbcii	1364	
											Cbcii	1365	
											Cbcii	1366	
45. Mortality and Industrial Hygiene Study of Workers Exposed to Dyes (100/VMH-C21-558)	79	80					i c e	0.5	40	57	Cbcii	1369	
.1 Complete vital status follow-up.				o							Cbcii	1370	
.2 Initiate data analysis.				o							Cbcii	1371	
.3 Complete final report and transmit abstract to Director, NIOSH and copy to DTS.						o					Cbcii	1372	
											Cbcii	1373	
											Cbcii	1374	
											Cbcii	1375	
											Cbcii	1376	
											Cbcii	1377	

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY PLANNED COMPLETION				M F A E U C C N T H D			RESOURCES		Cbcii		
	I	C	1Q	2Q	3Q	4Q	MY	FF	TF			
								\$1000	\$1000			
46. Mortality and Industrial Hygiene Study of New Agents-III (1.3/20.0/13.0) (100/VMH-C21-623)	78	81					i b e	1.3	20	63	Cbcii	1380
.1 Complete study protocol for flame retardants*.			o								Cbcii	1381
.2 Complete final report on wood preservatives and transmit abstract to Director, NIOSH and copy to DTS. (210-78-0060)				o							Cbcii	1382
.3 Complete study protocol for acrylates*.					o						Cbcii	1383
.4 Complete final report on flame retardants and transmit abstract to Director, NIOSH and copy to DTS. (210-78-0060)						o					Cbcii	1384
.5 Complete final report on acrylates and transmit abstract to Director, NIOSH and copy to DTS (4Q81). (210-78-0060)							o				Cbcii	1385
* Different agents may be chosen depending on Institute priorities.											Cbcii	1386
											Cbcii	1387
											Cbcii	1388
											Cbcii	1389
											Cbcii	1390
											Cbcii	1391
											Cbcii	1392
											Cbcii	1393
47. Mortality and Industrial Hygiene Study of Leather Industry Workers (1.3/74.0/117.0) (100/VMH-C22-634)	79	81					f c e	1.3	49	92	Cbcii	1396
.1 Complete selection of plants for study.			o								Cbcii	1397
.2 Complete detailed industrial hygiene characterizations.				o							Cbcii	1398
.3 Complete coding of work histories.					o						Cbcii	1399
.4 Complete final report and transmit abstract to Director, NIOSH and copy to DTS (4Q81).						o					Cbcii	1400
											Cbcii	1401
											Cbcii	1402
											Cbcii	1403
											Cbcii	1404
											Cbcii	1405
48. Mortality, Medical and Industrial Hygiene Study of Workers Exposed to Toluene (2.0/49.0/117.0) (2.0/49.0/117.0) (100/VMH-C21-636)	79	82					i c e	2.5	75	159	Cbcii	1408
.1 Complete selection of plants for study.			o								Cbcii	1409
.2 Complete microfilming of records for mortality study.				o							Cbcii	1410
.3 Complete peer and tripartite review for medical study.					o						Cbcii	1411
.4 Complete industrial hygiene characterization.						o					Cbcii	1412
.5 Complete coding of work history information for mortality study.							o				Cbcii	1413
.6 Complete medical study report and transmit abstract to Director, NIOSH and copy to DTS (4Q81).											Cbcii	1414
.7 Complete mortality study report and transmit abstract to Director, NIOSH and copy to DTS (1Q82).											Cbcii	1415
											Cbcii	1416
											Cbcii	1417
											Cbcii	1418
											Cbcii	1419
											Cbcii	1420
											Cbcii	1421
											Cbcii	1422

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY		PLANNED COMPLETION				M F A E U C C N			RESOURCES				
	I	C	1Q	2Q	3Q	4Q	T	H	D	MY	FF			TF
											\$1000			\$1000
49. Mortality and Industrial Hygiene Study of Fuelmen (0.4/12.0/20.0) (100/VMH-C22-657)	80	81					i	c	a	0.9	31	51	Cbcii	1425
													Cbcii	1426
													Cbcii	1427
.1 Complete industrial hygiene characterization.			o										Cbcii	1428
.2 Complete vital status ascertainment					o								Cbcii	1429
.3 Complete data analysis						o							Cbcii	1430
.4 Complete final report and transmit abstract to Director, NIOSH and copy to DTS (1Q81).													Cbcii	1431
													Cbcii	1432
													Cbcii	1433
50. Mortality, Medical and Industrial Hygiene Study of Brakelining Workers (100/VMH-C22-418)	76	80					i	b	e	0.3	1	11	Cbcii	1436
													Cbcii	1437
													Cbcii	1438
.1 Receive medical data report from contractor (210-77-0119)			o										Cbcii	1439
.2 Complete final report and transmit abstract to Director, NIOSH and copy to DTS.				o									Cbcii	1440
													Cbcii	1441
													Cbcii	1442
													Cbcii	1443
51. Mortality Study of Chemical Plant in Kanawa Valley, W. Va. (2.0/82.0/150.0) (2.0/82.0/150.0) (100/VMH-C22-680)	80	82					i	c	e	1.2	75	115	Cbcii	1446
													Cbcii	1447
													Cbcii	1448
.1 Complete reconstruction of plant history.			o										Cbcii	1449
.2 Complete coding of demographic and work history data.									o				Cbcii	1450
.3 Complete computerization of (.2) above.									o				Cbcii	1451
.4 Complete death certificate ascertainment (4Q81).													Cbcii	1452
.5 Complete data analysis and complete final report and transmit abstract to Director, NIOSH and copy to DTS (2Q82).													Cbcii	1453
													Cbcii	1454
													Cbcii	1455
52. Identification of Occupational Groups at High Risk Due to Synergistic Effects (100/VMO-C:1-676)	80	80					w	c	e	0.5	25	42	Cccwi	1458
													Cccwi	1459
													Cccwi	1460
.1 Complete lists of interacting chemicals.				o									Cccwi	1461
.2 Complete identification of groups potentially exposed.					o								Cccwi	1462
.3 Complete final report and transmit abstract to Director, NIOSH and copy to DTS.						o							Cccwi	1463
													Cccwi	1464
													Cccwi	1465
													Cccwi	1466

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY		PLANNED COMPLETION				M F	RESOURCES				
	I	C	1Q	2Q	3Q	4Q	A E U	MY	\$1000	\$1000		
							C C N					
53. Case Control Study Using Social Security Administration Identifications (0.7/59.0/75.0) (100/VMH-G11-658)	80	81					w g a	0.7	100	116	Cbcwi	1469
.1 Complete peer review.			o								Cbcwi	1470
.2 Submit IA to OAMS and award IA.				o							Cbcwi	1471
.3 Obtain list of cases and controls.					o						Cbcwi	1472
.4 Receive data from SSA.						o					Cbcwi	1473
.5 Complete final report and transmit abstract to Director, NIOSH and copy to DTS (3Q81).											Cbcwi	1474
											Cbcwi	1475
											Cbcwi	1476
											Cbcwi	1477
											Cbcwi	1478
											Cbcwi	1479
54. Registry of Dioxin Workers (4.0/36.0/125.0) (100/VMH-C21-659)	80	81					i c a	4.0	60	149	Cbcii	1482
.1 Complete contact with manufacturers of 2,4,5-T.			o								Cbcii	1483
.2 Complete peer and tripartite review.				o							Cbcii	1484
.3 Initiate registration of cohort members.					o						Cbcii	1485
.4 Initiate vital status ascertainment.						o					Cbcii	1486
.5 Complete final report and transmit abstract to Director, NIOSH and copy to DTS (4Q81).											Cbcii	1487
											Cbcii	1488
											Cbcii	1489
											Cbcii	1490
											Cbcii	1491
55. Epidemiology Study of Workers in Petroleum Refining and Petrochemical Plants (0.5/19.0/30.0) (100/VMH-C22-662)	80	81					i c a	1.2	15	42	Cbcgi	1494
.1 Complete case ascertainment.					o						Cbcgi	1495
.2 Complete coding of work histories.						o					Cbcgi	1496
.3 Complete final report and transmit abstract to Director, NIOSH and copy to DTS (2Q81).											Cbcgi	1497
											Cbcgi	1498
											Cbcgi	1499
											Cbcgi	1500
											Cbcgi	1501
											Cbcgi	1502

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY		PLANNED COMPLETION				M F A E U C C N			RESOURCES				
	I	C	1Q	2Q	3Q	4Q	T	H	D	MY	FF			TF
											\$1000			\$1000
56. Technical Management (DSHEFS) (100/VMA-C20-502) (100/VMR-C20-602)	80	80					s	c	a	12.8	100	385	CCcwi	1505
.1 Extend x-ray reading contract.							o						CCcwi	1506
.2 Extend sputum cytology contract.							o						CCcwi	1507
.3 Extend case location contract.							o						CCcwi	1508
.4 Extend computer services contract.							o						CCcwi	1509
.5 Complete DSHEFS portion of President's Annual Report.			o										CCcwi	1510
.6 Complete evaluations of Commissioned Corps Personnel.			o										CCcwi	1511
.7 Complete evaluations of Civil Service personnel.					o								CCcwi	1512
.8 Complete review of EEO progress and management training goals.					o								CCcwi	1513
* Additional milestones will be added in the first quarter report to take care of final reports that were not completed in FY-79 and for which there are no FY-80 projects.													CCcwi	1514
													CCcwi	1515
													CCcwi	1516
													CCcwi	1517
													CCcwi	1518
													CCcwi	1519
													CCcwi	1520
													CCcwi	1521
													CCcwi	1522
													D	1524
													D	1525
													D	1526

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY		PLANNED COMPLETION				M F A E U C C N T H D			RESOURCES		
	I	C	1Q	2Q	3Q	4Q	MY	FF	TF			
								\$1000	\$1000			
57. Analytical Support to Cancer Research (VQK-C40-459)(100/VQK-C40-459)	80	80					a b a	2.0	45.0	93.0	Dbcyi 1528	
.1 Provide analyses in support of industry wide studies (DSHEFS, of:											Dbcyi 1529	
.a Emerging problems			200	350	500	600					Dbcyi 1530	
.b Dioxins			10	20	30	40					Dbcyi 1531	
.c Fur and hair dyes				50	100						Dbcyi 1532	
.d Beryllium			40		80						Dbcyi 1533	
.e Shipyard workers			100	200							Dbcyi 1534	
.2 Provide analyses in support of DBBS toxicology studies											Dbcyi 1535	
a. Nitrosamines and PNA's			25								Dbcyi 1536	
b. Animal diet composition			10	20	30	40					Dbcyi 1537	
c. Trace metals in tissue			20	40	60	80					Dbcyi 1538	
.3 Provide analyses in support of DRDS fibrous minerals studies.											Dbcyi 1539	
a. SiO2					250	500					Dbcyi 1540	
b. Qualitative electron microscopy					25	50					Dbcyi 1541	
c. Trace metals					50	100					Dbcyi 1542	
d. Fiber analyses					100	200					Dbcyi 1543	
.4 Provide analyses of unanticipated samples and carryover samples from FY 79 for DSHEFS			200	225	250	275					Dbcyi 1544	
.5 Provide general support of DSHEFS cancer program by review of contract preparations and evaluations involving measurements					1	2					Dbcyi 1545	
.6 Maintain a cumulative average turnaround time of 30 work days for in-house industry-wide studies.			30	30	30	30					Dbcyi 1546	
											Dbcyi 1547	
											Dbcyi 1548	
											Dbcyi 1549	
											Dbcyi 1550	
											Dbcyi 1551	
											Dbcyi 1552	
											Dbcyi 1553	
											Dbcyi 1554	
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											Dbcyi 1556	
											Dbcyi 1557	
											Dbcyi 1558	
											Dbcyi 1559	
											Dbcyi 1560	
											Dbcyi 1561	
											Dbcyi 1562	
											Dbcyi 1563	
											Dbcyi 1564	
											Dbcyi 1565	
											Dbcyi 1566	
											Dbcyi 1567	

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY		PLANNED COMPLETION				M F	RESOURCES				
	I	C	1Q	2Q	3Q	4Q	A E U	FF	TF			
							C C N			T H D		
58. Vapor Pressure Apparatus for Carcinogens (VQU-C23-482)(100/VQU-C23-469)	78	80					d b a	0.7	17.5	34.2	Dccie	1570
.1 Receive vapor pressure apparatus (Argonne IA 77-4) (4Q79)			o								Dccie	1571
.2 Receive automated vapor pressure system modification (Argonne IA 79-37)				o							Dccie	1572
.3 Purify and measure vapor pressure of 10 substances			3	6	9	10					Dccie	1573
											Dccie	1574
											Dccie	1575
											Dccie	1576
											Dccie	1577
											Dccie	1578
											Dccie	1579
59. NAS Study of Monitoring Needs (0.5/20/30)(VQX-T23-470)	80	81					b b a	0.5	145.8	157.8	Dccej	1582
.1 Develop study goals			o								Dccej	1583
.2 Submit RIA				o							Dccej	1584
.3 Begin study					o						Dccej	1585
.4 Receive final report (4Q81)											Dccej	1586
											Dccej	1587
											Dccej	1588
											Dccej	1589
60. Monitoring Methods - Inorganic Carcinogens (VQU-C23-463)(100/VQU-C23-478)	77	80					d b a	1.7	34.8	74.1	DccfN	1592
.1 Evaluate chromium methods (OSHA rulemaking)											DccfN	1593
a. Complete evaluation of ion chromatography				o							DccfN	1594
b. Complete evaluation of polarography					o						DccfN	1595
c. Report and method written						o					DccfN	1596
d. Transmit final report to Director, DPSE							o				DccfN	1597
.2 Develop personal S/A method for nickel carbonyl (OSHA request -- Project 7)											DccfN	1598
a. Complete evaluation of graphite furnace AAS			o								DccfN	1599
b. Complete evaluation of solid sorbents					o						DccfN	1600
c. Complete analysis of lab-generated samples						o					DccfN	1601
d. Method and report written							o				DccfN	1602
e. Transmit final report to Director, DPSE								o			DccfN	1603
.3 Develop S/A method for organoarsenic compounds (210-77-0134) (FY 81 criteria document)											DccfN	1604
a. Receive bimonthly progress reports			2								DccfN	1605
b. Receive draft final report (3Q79)				o							DccfN	1606
c. Receive final report (4Q79)					o						DccfN	1607
d. Transmit abstract of final report to Director, NIOSH (4Q79)						o					DccfN	1608
											DccfN	1609
											DccfN	1610
											DccfN	1611
											DccfN	1612
											DccfN	1613
											DccfN	1614
											DccfN	1615

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY		PLANNED COMPLETION				M F A E U C C N			RESOURCES		
	I	C	1Q	2Q	3Q	4Q	T	H	D	MY	FF	TF
											\$1000	\$1000
*****COAL MINING RESEARCH*****												
											d	1618
											d	1619
											d	1620
DIVISION OF RESPIRATORY DISEASE STUDIES											A	1621
											A	1622
											A	1623
1. 3RD Round National Study of Coalworkers' Pneumoconiosis (VKL-R22-183) (0.5/80.0;55.0) (1.5/55.0/90.0) (100/VKL-R22-183)	77	82					i	g	b	7.8	132.7	310.5
											Aadft	1625
											Aadft	1626
											Aadft	1627
											Aadft	1628
.1 Complete mortality data collection, 1969-77 on 9078 bituminous coal miners examined in 1969-71 Round 1, National Coal Study (NCS-1)				o							Aadft	1629
											Aadft	1630
.2 Complete selection of supplemental sample of bituminous coal miners from first round of radiographs in Receiving Center				o							Aadft	1631
											Aadft	1632
.3 Complete mortality follow-up, 1969-77, on supplemental sample in (2) above							o				Aadft	1633
											Aadft	1634
.4 Complete detailed report on fundings from mortality follow-up, 1969-77, on NCS-1									o		Aadft	1635
											Aadft	1636
.5 Complete proposal including questionnaires, to update histories of potential work place exposures and of cigarette smoking									o		Aadft	1637
											Aadft	1638
.6 Complete proposal, including assessment of feasibility, to arrange to obtain histories of potentially occupation-generated cardiopulmonary diseases from physicians and hospital records (for identified coal miners)				o							Aadft	1639
											Aadft	1640
											Aadft	1641
											Aadft	1642
											Aadft	1643
											Aadft	1644
											Aadft	1645
NATIONAL COAL MORBIDITY STUDY											Aadft	1646
.7 Apply for renewal of existing FRA (OMB) clearance				o							Aadft	1647
.8 Complete 2/3 (24) of examinations									o		Aadft	1648
.10 Complete sending of medical letters (3Q81)											Aadft	1649
.11 Complete film reading for progression (4Q81)											Aadft	1650
.12 Complete analysis and final report with abstract to Director, NIOSH (2Q82)											Aadft	1651
											Aadft	1652
											Aadft	1653
2. Magnetometry/Pathology Correlative Study of C.W.P. (*) (VKC-R22-165) (100/VKC-R22-165)	78	80					m	c	d	1.3	12.3	41.9
											Addit	1656
											Addit	1657
.1 Complete radiographic evaluation and analysis of lungs for total dust and coal dust									o		Addit	1658
											Addit	1659
.2 Complete correlation of magnetometric findings with histopathology									o		Addit	1660
											Addit	1661
.3 Complete final report and submit abstract to Director, NIOSH									o		Addit	1662
											Addit	1663
											Addit	1664

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY I C	PLANNED COMPLETION				M F A E U C C N T H D			RESOURCES			
		1Q	2Q	3Q	4Q	MY	FF	TF				
							\$1000	\$1000				
3. X-ray/Pathology Correlative Studies in Pneumoconiosis (*) (VKC-R22-244) (100/VKC-R22-244)	78	80					h c d	1.0	108.2	131.0	Addit	1667
.1 Complete pulmonary pathology assessment				o							Addit	1668
.2 Compile analysis of data					o						Addit	1669
.3 Complete final report and submit abstract to Director, NIOSH						o					Addit	1670
											Addit	1671
											Addit	1672
											Addit	1673
4. Cross Sectional EPI & IH Study of New and Ex-Miners (VKH-R22-163) (2 1/30.0/80.0) (2.1/30.0/80.0) (100/VKH-R22-163)	77	82					t c b	2.0	29.6	78.9	Accdit	1676
.1 Complete initial examinations					o						Accdit	1677
.2 Complete first round of follow-up studies (every six months)						o					Accdit	1678
.3 Complete analysis on Phase I comparisons of new versus experienced miners							o				Accdit	1679
.4 Complete second round of follow-up studies (every six months) (1Q81)											Accdit	1680
.5 Complete third round of follow-up studies (1Q82)											Accdit	1681
.6 Complete data collection (2Q82)											Accdit	1682
.7 Complete data analysis (4Q82)											Accdit	1683
.8 Complete final report and submit abstract to Director, NIOSH (4Q82)											Accdit	1684
											Accdit	1685
											Accdit	1686
											Accdit	1687
											Accdit	1688
											Accdit	1689
											Accdit	1690
											Accdit	1691
											Accdit	1692
5. Black Lung Clinics (VKA-R22-102) (100/VKA-R22-102)	80	80					y a b	.1	0.4	2.7	AAAdia	1695
.1 Complete transfer of project responsibility to HSA											AAAdia	1696
											AAAdia	1697
											AAAdia	1698
											AAAdia	1699
6. Environmental Study of Diesel Emissions in Coal Mines (VKP-M22-906) (100/VKP-M22-906)	80	80					f c b	2.0	15.0	60.6	Abdmm	1702
.1 Initiate PNA/Hydrocarbon sampling of mines					o						Abdmt	1703
.2 Complete comprehensive IH mine surveys						o					Abdmt	1704
.3 Complete analysis of diesel environmental data							o				Abdmt	1705
.4 Complete final industrial hygiene report and submit abstract to Director								o			Abdmt	1706
											Abdmt	1707
											Abdmt	1708
											Abdmt	1709
											Abdmt	1710

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY				PLANNED COMPLETION				M F A E U C C N			RESOURCES				
	I	C	1Q	2Q	3Q	4Q	T	H	D	MY	FF	TF	\$1000			\$1000
7. Image Analysis of Chest X-Rays (VKH-R32-205) (1.5/34.0/70.0) (100/VKH-R32-205)	79	81					n	c	b		1.5	26.4	60.6	Acddy	1713	
.1 Complete installation of image processing system			o											Acddy	1714	
.2 Complete development of pre-processing and image enhancement algorithms						o								Acddy	1715	
.3 Begin training of system for simple normal/abnormal classifier							o							Acddy	1716	
.4 Complete analysis of system training data (2Q81)								o						Acddy	1717	
.5 Complete design of automated chest x-ray interpretation system (4Q81)									o					Acddy	1718	
.6 Complete final report (4Q81)														Acddy	1719	
														Acddy	1720	
														Acddy	1721	
														Acddy	1722	
														Acddy	1723	
														Acddy	1724	
														Acddy	1725	
8. Diesel Exhaust/Coal Dust Animal Exposure Studies (VKC-R24-913) (4.0/51.0/142.6) (3.0/40.0/112.3) (100/VKC-R24-913)	80	82					k	b	b		3.6	43.0	125.1	Addtm	1728	
.1 Submit RFC for rat clearance studies			o											Addtm	1729	
.2 Submit RFC for analytical contracts			o											Addtm	1730	
.3 Award contracts					o									Addtm	1731	
.4 Complete base line testing				o										Addtm	1732	
.5 Complete six month sacrifice and tests						o								Addtm	1733	
.6 Complete 12 month animal sampling (2Q81)								o						Addtm	1734	
.7 Complete 18 month animal sampling (4Q81)									o					Addtm	1735	
.8 Complete 24 month animal sampling (2Q82)														Addtm	1736	
.9 Submit final report to Director, NIOSH (4Q82)														Addtm	1737	
														Addtm	1738	
														Addtm	1739	
														Addtm	1740	
														Addtm	1741	
9. Environmental Surveillance for 3rd Round NSCWP (VKP-M11-903) (100/VKP-M11-903)	80	82					f	c	b		4.1	18.5	86.9	Abdwi	1744	
.1 Prepare environmental sampling protocol			o											Abdwi	1745	
.2 Submit protocol for SPRG review			o											Abdwi	1746	
.3 Complete study protocol					o									Abdwi	1747	
.4 Initiate field studies						o								Abdwi	1748	
.5 Complete field studies (2Q81)								o						Abdwi	1749	
.6 Complete analysis of environmental data (4Q81)														Abdwi	1750	
.7 Prepare final report and submit abstract to Director, NIOSH (4Q82)														Abdwi	1751	
														Abdwi	1752	
														Abdwi	1753	
														Abdwi	1754	
														Abdwi	1755	
														B	1757	
														B	1758	
														B	1759	

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY		PLANNED COMPLETION				M F A E U C C N T H D			RESOURCES			
	I	C	1Q	2Q	3Q	4Q	MY	FF	TF	\$1000	\$1000		
10. Repetitive Lifting: Limiting Factors in Men and Women (VOK-W24-325)(1.5/70/102)(100/VOK-W24-325)	77	81					m b b	1.6	46.2	86.0	BbdNi	1761	
											BbdNi	1762	
											BbdNi	1763	
.1 Complete peer review (1Q77)											BbdNi	1764	
.2 Obtain HSRB clearance of project (2Q77)											BbdNi	1765	
.3 Consult Information Office				o							BbdNi	1766	
.4 Submit progress report to Director, DBBS (1Q,2Q,3Q81)			o	o	o	o					BbdNi	1767	
.5 In-House Repetitive Lifting											BbdNi	1768	
a. Begin pilot in-house study (4Q77)											BbdNi	1769	
b. Obtain HSRB clearance for full in-house study (2Q78)											BbdNi	1770	
c. Initiate subject recruitment (females) (3Q78)											BbdNi	1771	
d. Perform testing of female subjects (1Q,2Q,3Q,4Q79)											BbdNi	1772	
e. Initiate subject testing (males)			o								BbdNi	1773	
f. Complete subject testing (males)					o						BbdNi	1774	
g. Complete male vs female comparison						o					BbdNi	1775	
.6 Contract - Dynamic Strength Tests (#210-79-0041)											BbdNi	1776	
a. Award contract (4Q79)											BbdNi	1777	
b. Monitor contract (1Q81)(3Q81)				o							BbdNi	1778	
c. Obtain contractor's recommendations from Phase I					o						BbdNi	1779	
d. Obtain HSRB clearance, Phase II							o				BbdNi	1780	
e. Initiate subject testing, Phase II							o				BbdNi	1781	
f. Submit funding document Phase III							o				BbdNi	1782	
g. Complete Phase II subject testing (3Q81)											BbdNi	1783	
h. Obtain final report Phase III (4Q81)											BbdNi	1784	
.7 Grip Study											BbdNi	1785	
a. Receive consultant's report					o						BbdNi	1786	
b. Initiate pilot study					o						BbdNi	1787	
c. Complete pilot study							o				BbdNi	1788	
d. Complete peer review (1Q81)											BbdNi	1789	
e. Obtain HSRB clearance (2Q81)											BbdNi	1790	
f. Initiate subject testing (2Q81)											BbdNi	1791	
g. Complete subject testing (4Q81)											BbdNi	1792	
.8 Submit final project report to Director, DBBS (4Q81)											BbdNi	1793	
.9 Submit abstract of final report to Director, NIOSH (4Q81)											BbdNi	1794	
											BbdNi	1795	
											BbdNi	1796	

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY		PLANNED COMPLETION				M F A E U C C N T H D			RESOURCES				
	I	C	1Q	2Q	3Q	4Q	MY	FF	TF	\$1000	\$1000			
11. Occupational Disorders of the Wrist (VOK-G24-282)(1.0/55/75)(100/VOK-G24-282)	79	81					g c b	0.8	41.8	65.4	Bbdhi	1799		
.1 Complete literature search (1Q79)											Bbdhi	1800		
.2 Complete collection of prevalence data (4Q79)											Bbdhi	1801		
.3 Receive consultants' recommendations (4Q79)											Bbdhi	1802		
.4 Consult Information Office											Bbdhi	1803		
.5 Complete film analysis course											Bbdhi	1804		
.6 Begin analysis of wrist positions											Bbdhi	1805		
.7 Submit fee for service request for Plant #1											Bbdhi	1806		
.8 Submit progress report to Director, DBBS (1Q,2Q,3Q81)											Bbdhi	1807		
.9 Complete analysis of wrist positions											Bbdhi	1808		
.10 Receive films of high incidence from Plant #1											Bbdhi	1809		
.11 Submit fee for service request for Plants #2 and 3											Bbdhi	1810		
.12 Receive films of high incidence jobs from Plants #2 and 3											Bbdhi	1811		
.13 Complete analysis of films obtained from Plant #1											Bbdhi	1812		
.14 Complete analysis of films obtained from Plants #2 and 3 (2Q81)											Bbdhi	1813		
.15 Submit final project report to Director, DBBS (4Q81)											Bbdhi	1814		
.16 Submit abstract of final report to Director, NIOSH C4Q80D(4Q81)											Bbdhi	1815		
											Bbdhi	1816		
											Bbdhi	1817		
											Bbdhi	1818		
											Bbdhi	1819		
											Bbdhi	1820		
12. Whole Body Vibration: Health Effects (VOK-G21-279)(1.5/10.0/40.0)(100/VOK-G21-279)	79	81					k c b	1.6	22.7	55.6	Bbdqi	1823		
.1 Complete peer review (4Q79)											Bbdqi	1824		
.2 Submit progress report to Director, DBBS (1Q,2Q,3Q81)											Bbdqi	1825		
.3 In-house Animal Tests											Bbdqi	1826		
a. Complete installation of body shaker											Bbdqi	1827		
b. Initiate primate testing											Bbdqi	1828		
c. Complete primate testing											Bbdqi	1829		
.4 In-house Human Subjects Study											Bbdqi	1830		
a. Submit for HSRB clearance											Bbdqi	1831		
b. Consult Information Office											Bbdqi	1832		
c. Submit study protocol to Director, DBBS											Bbdqi	1833		
d. Obtain HSRB clearance (1Q81)											Bbdqi	1834		
e. Complete recruitment of human subjects and medical examinations (1Q81)											Bbdqi	1835		
f. Initiate subject testing (tilt) (1Q81)											Bbdqi	1836		
g. Complete subject testing (tilt) (2Q81)											Bbdqi	1837		
h. Initiate subject testing (LBNP) (3Q81)											Bbdqi	1838		
i. Complete subject testing (LBNP) (4Q81)											Bbdqi	1839		
.5 Submit final project report to Director, DBBS (4Q81)											Bbdqi	1840		
.6 Submit abstract of final report to Director, NIOSH C4Q80D(4Q81)											Bbdqi	1841		
											Bbdqi	1842		
											Bbdqi	1843		
											Bbdqi	1844		
											Bbdqi	1845		
											Bbdqi	1846		

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY		PLANNED COMPLETION				M F A E U C C N			RESOURCES				
	I	C	1Q	2Q	3Q	4Q	T	H	D	MY	FF TF			
											\$1000	\$1000		
13. Imminent Danger from Heat Stress in Mines (VOK-G21-280)(.5/13.0/24.0)(100/VOK-G21-280)	79	81					g	a	b	0.5	61.5	74.0	Bbdqi	1849
.1 Consult Information Office			o										Bbdqi	1850
.2 Submit progress report to Director, DBBS (1Q,2Q81)			o	o	o	o							Bbdqi	1851
.3 Workshop on Heat Stress													Bbdqi	1852
a. Complete proceedings of workshop					o								Bbdqi	1853
b. Submit proceedings to Director, DBBS					o								Bbdqi	1854
c. Submit abstract of proceedings to Director, NIOSH					o								Bbdqi	1855
.4 Worksite Investigation													Bbdqi	1856
a. Submit RFC to Director, DBBS			o										Bbdqi	1857
b. Negotiate and award contract					o								Bbdqi	1858
c. Contractor initiates surface mine studies					o								Bbdqi	1859
d. Monitor contract (1Q81)(3Q81)					o								Bbdqi	1860
e. Contractor completes surface mine studies						o							Bbdqi	1861
f. Contractor initiates deep mine studies						o							Bbdqi	1862
g. Contractor completes deep mine studies (1Q81)						o							Bbdqi	1863
h. Submit final report to Director, DBBS (3Q81)						o							Bbdqi	1864
i. Submit abstract of final report to Dir, NIOSH C4Q79D (3Q81)						o							Bbdqi	1865
													Bbdqi	1866
													Bbdqi	1867
													Bbdqi	1868
													Bbdqi	1869
14. Effect of Respirators on Development of Fatigue (VOK-G24-342)(100/VOK-G24-342)	78	80					m	c	b	1.1	12.6	40.0	Bbdhi	1872
.1 Complete study design (1Q78)													Bbdhi	1873
.2 Complete peer review (3Q78)													Bbdhi	1874
.3 Obtain HSRB clearance (4Q78)													Bbdhi	1875
.4 Initiate testing of subjects (1Q79)													Bbdhi	1876
.5 Submit progress report to Director, DBBS			o	o	o								Bbdhi	1877
.6 Complete subject testing					o								Bbdhi	1878
.7 Consult Information Office						o							Bbdhi	1879
.8 Submit final project report to Director, DBBS						o							Bbdhi	1880
.9 Submit abstract of final report to Director, NIOSH						o							Bbdhi	1881
													Bbdhi	1882
													Bbdhi	1883
													Bbdhi	1884

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY		PLANNED COMPLETION				M F A E U C C N T H D			RESOURCES				
	I	C	1Q	2Q	3Q	4Q	MY	FF	TF	\$1000	\$1000			
15. Safety and Health of Commercial Divers (VOK-G22-296)(1.0/326.0/353.5)(100/VOK-G22-296)	79	81					g	d	b	1.0	450.0	474.9	Bbdiu	1887
													Bbdiu	1888
.1 Consult Information Office			o										Bbdiu	1889
.2 Conduct Peer Review			o										Bbdiu	1890
.3 Procedures for Emergency Diver Evacuation													Bbdiu	1891
a. Submit RFC to Director, DBBS				o									Bbdiu	1892
b. Award Contract					o								Bbdiu	1893
c. Review contractor's report					o	o							Bbdiu	1894
.4 Heating Techniques for Arctic Divers													Bbdiu	1895
a. Submit RFC to Director, DBBS				o									Bbdiu	1896
b. Award contract					o								Bbdiu	1897
c. Review contractor's report					o	o							Bbdiu	1898
.5 Therapeutic Measures for Dysbaric Osteonecrosis													Bbdiu	1899
a. Submit RFC to Director, DBBS			o										Bbdiu	1900
b. Award contract				o									Bbdiu	1901
c. Review contractor's report					o	o							Bbdiu	1902
.6 Delayed Treatment of Decompression													Bbdiu	1903
a. Submit RFC to Director, DBBS			o										Bbdiu	1904
b. Award contract				o									Bbdiu	1905
c. Review contractor's report					o	o							Bbdiu	1906
.7 IA to NOAA													Bbdiu	1907
a. National Diving Accident Network (1Q81)			o										Bbdiu	1908
b. U. Rhode Island Diver Mortality (1Q81)			o										Bbdiu	1909
.8 Establish divers' data processing center(1Q81)													Bbdiu	1910
.9 Submit progress report to Director, DBBS (1Q,2Q,3Q81)			o	o	o	o							Bbdiu	1911
.10 Submit final project report to Director, DBBS (4Q81)													Bbdiu	1912
.11 Submit abstract of final project report to Director, NIOSH (4Q81)													Bbdiu	1913
													Bbdiu	1914
													Bbdiu	1915
													Bbdiu	1916

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY PLANNED COMPLETION				M F A E U C C N T H D			RESOURCES					
	I	C	1Q	2Q	3Q	4Q	MY	\$1000	\$1000	FF			TF
16. Diesel Exhaust/Coal Dust Animal Exposure Studies - EPA (V00-E24-396)(0.3/503.8/515)(0.3/506.8/518)(100/V00-E24-396)	77	82					k d c	0.4	500.0	514.9	Bcdtn	1919	
.1 Complete peer review (1Q78)											Bcdtn	1920	
.2 Prepare interagency agreement (3Q78)(4Q79)(4Q80)(4Q81)											Bcdtn	1921	
.3 Begin facility setup (1Q79)											Bcdtn	1922	
.4 Complete facility set up (4Q79)											Bcdtn	1923	
.5 Initiate generation system set-up (4Q79)											Bcdtn	1924	
.6 Characterize emissions (4Q79)											Bcdtn	1925	
.7 Award interagency agreement (1Q79)(1Q81)(1Q82)			o								Bcdtn	1926	
.8 Consult Information Office			o								Bcdtn	1927	
.9 Initiate animal exposures			o								Bcdtn	1928	
.10 Perform 6-month biologic sampling					o						Bcdtn	1929	
.11 Submit IA progress report to Dir., DBBS (1Q,2Q,3Q,4Q,81) (1Q,2Q,3Q,82)			o	o	o	o					Bcdtn	1930	
.12 Perform 12-month biologic sampling (1Q81)											Bcdtn	1931	
.13 Perform 18-month biologic sampling (3Q81)											Bcdtn	1932	
.14 Perform 24-month biologic sampling (1Q82)											Bcdtn	1933	
.15 Complete pathology (3Q82)											Bcdtn	1934	
.16 Review draft final report (4Q82)											Bcdtn	1935	
.17 Submit final report to Director, DBBS (4Q82)											Bcdtn	1936	
.18 Submit abstract of final report to Director, NIOSH (4Q82)											Bcdtn	1937	
DIVISION OF PHYSICAL SCIENCES AND ENGINEERING												D	1938
												D	1939
												D	1940
												D	1941
												D	1942
												D	1943
												D	1944
												D	1945
17. Analytical Support to Energy Research (VQK-E40-446)(100/VQK-E40-477)	80	80					a c a	1.0	15.0	38.9	Dbdgm	1947	
.1 Provide analytical services to DSHEFS for mortality and industrial hygiene study of workers exposed to sulfuric acid, and for industrial hygiene study of petroleum refineries			100	130	160	200					Dbdgm	1948	
.2 Provide analytical services to DRDS for morbidity and industrial hygiene study of workers exposed to SOX, NOX, and industrial hygiene study of mines operated with diesel equipment			175	350							Dbdgm	1949	
.3 Review and consult with DRDS on measurement aspects of contracts for fluidized-bed combustion					o						Dbdgm	1950	
.4 Develop two unanticipated analytical methods						1	2				Dbdgm	1951	
.5 Improve the P&CAM #231 analytical method for nitrogen dioxide and nitric oxide				o							Dbdgm	1952	
											Dbdgm	1953	
											Dbdgm	1954	
											Dbdgm	1955	
											Dbdgm	1956	
											Dbdgm	1957	
											Dbdgm	1958	
											Dbdgm	1959	
											Dbdgm	1960	
											Dbdgm	1961	
											Dbdgm	1962	
											Dbdgm	1963	

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY		PLANNED COMPLETION				M F A E U C C N			RESOURCES				
	I	C	1Q	2Q	3Q	4Q	T	H	D	MY	\$1000			\$1000
18. Analytical Support to Mine Related Health Hazard Evaluations and Surveillance (VQK-M33-476)(100/VQK-M33-476)	80	80					a	b	b	0.5	105.0	117.2	Dbdmj	1966
.1 Provide routine analyses of samples for MHHE's from DRDS			250	500	750	1k							Dbdmj	1967
.2 Provide non-routine analyses of samples for MHHE's from DRDS			50	100	150	200							Dbdmj	1968
.3 Develop one sampling and analytical method in response to a MHHE needs.													Dbdmj	1969
													Dbdmj	1970
													Dbdmj	1971
													Dbdmj	1972
													Dbdmj	1973
													Dbdmj	1974
													Dbdmj	1975
19. Develop Certification Procedures for Mine Dust Samplers (VQU-R23-436)(1/100/125)(100/VQU-R23-436)	79	81					c	c	b	1.0	11.4	35.3	DcdmN	1978
.1 Develop certification procedures													DcdmN	1979
a. Complete testing													DcdmN	1980
b. Transmit recommendations and equipment to DSR/TCB													DcdmN	1981
c. Transmit final report to Director DPSE													DcdmN	1982
.2 Evaluate accuracy of mine dust samplers													DcdmN	1983
a. Complete field studies													DcdmN	1984
b. Transmit recommendations to Director NIOSH, DCSD, MSHA and BOM													DcdmN	1985
													DcdmN	1986
													DcdmN	1987
													DcdmN	1988
													DcdmN	1989
.3 Review documents and regulations related to mining dust									3				DcdmN	1990
													DcdmN	1991

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY				PLANNED COMPLETION				M F			RESOURCES					
	I	C	1Q	2Q	3Q	4Q	T	H	D	A	E	U	MY		\$1000	\$1000	
																	C
20. Organic Analytical Research (VQU-D23-410)(VQU-C23-403)(VQU-C23-472)(VQU-D23-429) (0.2/2.0/6.8)(VQU-D23-410)(VQU-G23-499)	78	81								d	c	a	6.2	401.9	550.1	Dcdcj	1994
																Dcdcj	1995
																Dcdcj	1996
																Dcdcj	1997
.1 Complete characterization of particulate diesel emissions (NIOSH/EPA study of diesel exhaust/coal dust)												o				Dcdcj	1998
.2 Complete characterization of vaporous diesel emissions (NIOSH/EPA study of diesel exhaust/coal dust)												o				Dcdcj	1999
.3 Develop quantitative air sampling and analytical methods for:																Dcdcj	2000
a. 4-Vinylcyclohexene dioxide (FY81 CD) (4Q79)													o			Dcdcj	2001
b. Acetone cyanohydrin (FY78 CD)(3Q79)													o			Dcdcj	2002
c. Diethylcarbamoyl chloride (3Q79)			o													Dcdcj	2003
.4 Develop quantitative air sampling and analytical methods under Contract 210-78-0012																Dcdcj	2004
a. Receive methods and reports for:																Dcdcj	2005
1. Chloroacetic acid			o													Dcdcj	2006
2. 1,2-Dichloropropane			o													Dcdcj	2007
3. 4-Chlorophenol								o								Dcdcj	2008
4. Pentachloroethane								o								Dcdcj	2009
b. Receive final report								o								Dcdcj	2010
.5 Develop quantitative air sampling and analytical methods under Contract 210-79-0100																Dcdcj	2011
a. Receive methods and reports for:																Dcdcj	2012
1. Vinyl fluoride													o			Dcdcj	2013
2. Vinylidene fluoride													o			Dcdcj	2014
3. Vinyl bromide (1Q81)																Dcdcj	2015
4. Octanethiol (4Q81)																Dcdcj	2016
5. Benzenethiol (4Q81)																Dcdcj	2017
b. Receive final report (4Q81)																Dcdcj	2018
.6 Develop quantitative air sampling and analytical methods under Contract 210-79-0102																Dcdcj	2019
a. Receive methods and reports for:																Dcdcj	2020
1. 1,2,4-Trichlorobenzene (2Q81)																Dcdcj	2021
2. 1,2,4,5-Tetrachlorobenzene (2Q81)																Dcdcj	2022
3. Pentachlorobenzene (2Q81)																Dcdcj	2023
4. Polychlorinated terphenyls (4Q81)																Dcdcj	2024
b. Receive final report (4Q81)																Dcdcj	2025
OFFICE OF ADMINISTRATIVE AND MANAGEMENT SERVICES																Dcdcj	2026
																J	2027
																J	2028
																J	2029
																J	2030
																J	2031
																J	2032
																J	2034
																J	2035
																J	2036

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY PLANNED COMPLETION				M F		RESOURCES								
	I	C	1Q	2Q	3Q	4Q	A	E			FF	TF			
							U	C			N	MY	\$1000	\$1000	
21. TAPS	80	80					x	c	a			1.9m	1.9m	Jdddd	2038
(VGE-188-038) (100/VGE-188-038)														Jdddd	2039
.1 SSF Postage Pro-Rate			55	110	165	220								Jdddd	2040
.2 GSA Telephone Basic Equipment			17	34	51	68								Jdddd	2041
.3 SSF Parklawn Common Services			35	70	105	140								Jdddd	2042
.4 FTS Pro-Rate			44	88	132	175								Jdddd	2043
.5 SSF Commissioned Officer's Personnel			14	28	42	56								Jdddd	2044
.6 CDC Overhead Basic Rate			125	250	375	500								Jdddd	2045
.7 Parklawn procurement			7	13	20	26								Jdddd	2046
.8 PHS Claims Office			23	46	68	100								Jdddd	2047
.9 Committee to coordinate toxicology			15	160	160	160								Jdddd	2048
.10 Dol Employee Compensation Fund			100	100	100	100								Jdddd	2049
.11 OASH Data Management Services			0	16	16	16								Jdddd	2050
.12 National Academy of Science			0	0	23	23								Jdddd	2051
.13 National Committee on Protection of Human Subjects			0	0	22	22								Jdddd	2052
.14 Office of International Health Bilateral			0	24	24	24								Jdddd	2053
.15 Unidentified TAPS			60	120	180	230								Jdddd	2054
TOTAL			495	1k	1.5k	1.9k								Jdddd	2055
														Jdddd	2056
														Jdddd	2057
														Jdddd	2058

CONTROL TECHNOLOGY RESEARCH

Division of Biomedical and Behavioral Science

Objectives of control technology are to reduce risks in the workplace by engineering, workpractice, or administrative controls: substitution of less hazardous substances; informing employees to improve the control technology program; validation of workpractices; more effective ways of informing employees; and less stressful work situations.

Division of Physical Sciences and Engineering

The goal is preventing hazardous exposure of workers through applications of technology. The program is a catalyst which will accomplish the goal by emphasizing assessment activities and real-time monitoring. An experienced and knowledgeable staff will be the nucleus that impacts the academic training, professional community, and equipment manufacturers/purchasers to consider the worker as a critical component of the production cycle. It is anticipated that the active grants will number at least 20 in FY 80. The information from the competition of twelve FY 79 technology assessments will be used to achieve more of the goal. All new efforts will be targeted to be completed within 2 years, with the majority of them being done in 1 year. Cooperative efforts with various organizations such as NBS Cooperative Technology Program and EPA technology efforts and increased consideration of economic feasibility suggest the need to revise the skill mix of personnel to have capability in finance, economics, law, etc. It may be faster to accomplish the goal by approaching it in a diversified fashion.

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY				PLANNED COMPLETION				M F			RESOURCES				
	I	C	1Q	2Q	3Q	4Q	T	H	D	MY	FF	TF				
											A	E			U	C
*****CONTROL TECHNOLOGY RESEARCH*****														e	2061	
														e	2062	
														e	2063	
DIVISION OF BIOMEDICAL AND BEHAVIORAL SCIENCES														B	2064	
														B	2065	
														B	2066	
1. Fibrogenicity of Industrial Mineral Substitutes (0.5/2/15)(0.2/1/7)(100/VOT-T24-797)	80	82							b	c	a	0.5	4.5	17.0	Bdetn	2068
.1 Hazard data sheet (H.D.S.):															Bdetn	2069
a. Develop H.D.S.				o											Bdetn	2070
b. Submit H.D.S. to Director, DBBS				o											Bdetn	2071
c. Submit H.D.S. to all project staff				o											Bdetn	2072
.2 Consult Information Office				o											Bdetn	2073
.3 Submit progress reports to Director, DBBS (1Q,2Q,3Q,4Q81) (1Q,2Q,3Q82)				o	o	o	o								Bdetn	2074
.4 Initiate pilot study to determine maximum tolerated dose (MTD).				o											Bdetn	2075
.5 Complete MTD study					o										Bdetn	2076
.6 Initiate fibrogenicity study					o										Bdetn	2077
.7 Perform 6-month serial sacrifice								o							Bdetn	2078
.8 Perform 12-month serial sacrifice (2Q81)															Bdetn	2079
.9 Complete 18-month fibrogenicity study: terminal sacrifice (4Q81)															Bdetn	2080
.10 Complete histologic evaluation and pathology report (2Q82)															Bdetn	2081
.11 Submit final project report to Director, DBBS (4Q82)															Bdetn	2082
.12 Submit abstract of final report to Director, NIOSH (4Q82)															Bdetn	2083
DIVISION OF PHYSICAL SCIENCES AND ENGINEERING															Bdetn	2084
															D	2085
															D	2086
															D	2087
															D	2088
															D	2089
															D	2090
															D	2091
															D	2092
															D	2093

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY	I	C	PLANNED COMPLETION				M F A E U C C N T H D MY			RESOURCES					
				1Q	2Q	3Q	4Q				FF	TF				
											\$1000	\$1000	\$1000			
2. Control Technology for Energy Systems (VQC-E31-407)(VQC-E31-417)(0.5/20/37)(VQC-E31-930)	78		81						b	b	c	2.2	22.3	74.8	Daegg	2095
.1 Control Technology Assessment for coal conversion															Daegg	2096
a. Complete plant surveys															Daegg	2097
b. Receive final report (1Q81)															Daegg	2098
c. Transmit abstract of final report to Director, NIOSH (copy of report to DTS) (2Q81)															Daegg	2099
d. Complete control guidelines (4Q81)															Daegg	2100
.2 Control Technology Assessment of Pulp and Paper Industry															Daegg	2101
a. Award contract (210-79-0008)(4Q79)															Daegg	2102
b. Complete tripartite review															Daegg	2103
c. Complete preliminary plant surveys															Daegg	2104
d. Complete plant survey															Daegg	2105
e. Receive final report (3Q81)															Daegg	2106
f. Transmit abstract of final report to Director, NIOSH (copy of report to DTS)															Daegg	2107
g. Complete control guidelines (4Q81)															Daegg	2108
.3 Assess Control Technology for Diesels in Mines															Daegg	2109
a. Obtain agency signatures for IAA (3Q79)															Daegg	2110
b. Complete Phase I of Study															Daegg	2111
c. Receive final report (1Q81)															Daegg	2112
d. Transmit abstract of final report to Director, NIOSH (copy of report to DTS)(2Q81)															Daegg	2113
.4 Control Technology Research for Diesel Emissions															Daegg	2114
a. Meet with Diesel Exhaust task group															Daegg	2115
b. Develop FY 81 research project															Daegg	2116
.5 Recirculation of Exhaust Air Research															Daegg	2117
a. Receive pilot study final report															Daegg	2118
b. Transmit abstract of pilot study final report to Director, NIOSH (copy of report to DTS)															Daegg	2119
c. Complete control guidelines															Daegg	2120
d. Transmit abstract of air cleaner final report to Director, NIOSH (copy of report to DTS)															Daegg	2121
.6 Respirator Research for Coal Preparation Plants															Daegg	2122
a. Receive final report															Daegg	2123
b. Transmit abstract of final report to Director, NIOSH (copy of report to DTS)															Daegg	2124
															Daegg	2125
															Daegg	2126
															Daegg	2127
															Daegg	2128
															Daegg	2129
															Daegg	2130
															Daegg	2131
															Daegg	2132
															Daegg	2133

PROJEC: OBJECTIVE DESCRIPTION - MILESTONES	FY I C	PLANNED COMPLETION				M F A E U C C N T H D			RESOURCES				
		1Q	2Q	3Q	4Q	MY	FF	TF	\$1000	\$1000			
3. Control Technology Assessment - Mining Industry (VQC-M31-467)(100/VQC-M31-467)	80	80					b c d	2.2	33.6	86.2	Daemd	2136	
.1 Control Technology Assessment of Chemical and Fertilizer Minerals Industry											Daemd	2137	
a. Complete preliminary plant visits					o						Daemd	2138	
b. Complete survey report						o					Daemd	2139	
.2 Control Technology Survey of Primary Copper Industry											Daemd	2140	
a. Complete preliminary plant visits					o						Daemd	2141	
b. Complete survey report						o					Daemd	2142	
.3 Control Technology Assessment of Ore Beneficiation Processes											Daemd	2143	
a. Complete preliminary plant visits					o						Daemd	2144	
b. Complete survey report						o					Daemd	2145	
a. Complete preliminary plant visits					o						Daemd	2146	
b. Complete survey report						o					Daemd	2147	
a. Complete preliminary plant visits					o						Daemd	2148	
b. Complete survey report						o					Daemd	2149	
											Daemd	2150	
											Daemd	2151	
											Daemd	2152	
4. Control Technology Assessment - Materials Production Industries (VQC-D31-404)(0.1/1.0/4.0)(100/VQC-D31-404)	79	81					b a a	0.8	59.5	78.6	Daeen	2155	
.1 Assess Aluminum Reduction Industry											Daeen	2156	
a. Complete plant surveys			o								Daeen	2157	
b. Receive final report				o							Daeen	2158	
c. Transmit abstract of final report to Director, NIOSH (copy of report to DTS)				o							Daeen	2159	
d. Complete control guidelines (2Q81)											Daeen	2160	
.2 Assess Pesticide Formulation and Manufacturing Industry											Daeen	2161	
a. Receive final report			o								Daeen	2162	
b. Transmit abstract of final report to Director, NIOSH (copy of report to DTS)			o								Daeen	2163	
c. Award symposium contract				c							Daeen	2164	
d. Conduct symposium					o						Daeen	2165	
e. Complete control guidelines					o						Daeen	2166	
.3 Assess Secondary Non-ferrous Smelting Industry											Daeen	2167	
a. Conduct symposium			o								Daeen	2168	
b. Receive final report (IA-78-45)				o							Daeen	2169	
c. Transmit abstract of final report to Director, NIOSH (copy of report to DTS)					o						Daeen	2170	
											Daeen	2171	
											Daeen	2172	
											Daeen	2173	
											Daeen	2174	
											Daeen	2175	
											Daeen	2176	
											Daeen	2177	

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY PLANNED COMPLETION				M F A E U C C N			RESOURCES						
	I	C	1Q	2Q	3Q	4Q	T	H	D			MY	\$1000	\$1000
													FF	TF
5. Control Technology Assessment - Materials Processing Industries (VQC-D31-405)(100/VQC-D31-405)	79	80					b	b	a	1.7	82.2	120.0	DaeiN 2180	
.1 Assess Cotton Processing Operations													DaeiN 2181	
a. Complete plant surveys			o										DaeiN 2182	
b. Receive final report				o									DaeiN 2183	
c. Transmit abstract of final report to Director, NIOSH (copy of report to DTS)				o									DaeiN 2184	
d. Complete control guidelines						o							DaeiN 2185	
.2 Assess Dry Cleaning Industry													DaeiN 2186	
a. Complete control guidelines				o									DaeiN 2187	
.3 Assess Foundry Industry													DaeiN 2188	
a. Conduct symposium			o										DaeiN 2189	
b. Submit control guidelines				o									DaeiN 2190	
.4 Evaluate Air-Supplied Lab Hood													DaeiN 2191	
a. Transmit abstract of final report to Director, NIOSH (copy of report to DTS)				o									DaeiN 2192	
.5 Assess Cotton Processing Oil Additives													DaeiN 2193	
a. Modify contract (210-78-0001)			o										DaeiN 2194	
b. Receive final report						o							DaeiN 2195	
c. Transmit abstract of final report to Director, NIOSH (copy of report to DTS)						o							DaeiN 2196	
													DaeiN 2197	
													DaeiN 2198	
													DaeiN 2199	
													DaeiN 2200	
													DaeiN 2201	
													DaeiN 2202	
													DaeiN 2203	
6. Control Technology Assessment for Criteria Documents (VQC-D31-420)(100/VQC-D31-420)	79	80					b	c	a	4.0	35.1	126.5	Daefi 2206	
.1 Assess Control Technology for the Tire Manufacturing Industry													Daefi 2207	
a. Complete plant surveys			o										Daefi 2208	
b. Complete final report				o									Daefi 2209	
c. Transmit abstract of final report to Director, NIOSH				o									Daefi 2210	
d. Complete control guidelines						o							Daefi 2211	
.2 Assess Control Technology for Painting and Coating Operations													Daefi 2212	
a. Complete plant surveys			o										Daefi 2213	
b. Complete final report				o									Daefi 2214	
c. Transmit abstract of final report to Director, NIOSH (copy of report to DTS)				o									Daefi 2215	
d. Complete control guidelines						o							Daefi 2216	
													Daefi 2217	
													Daefi 2218	
													Daefi 2219	
													Daefi 2220	
													Daefi 2221	
													Daefi 2222	

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY		PLANNED COMPLETION				M F A E U C C N			RESOURCES				
	I	C	1Q	2Q	3Q	4Q	T	H	D	MY	\$1000	\$1000		
7. Control Technology Program Development (1.0/5.0/30.0)(VQC-T31-468)	80	81					b	c	a	5.2	51.2	175.5	Daeek	2225
.1 Stimulate University Research and Training													Daeek	2226
a. Transmit abstract of 1979 Workshop proceedings to Director, NIOSH (copy of proceedings to DTS)				o									Daeek	2227
b. Conduct 1980 Workshop (1Q81)													Daeek	2228
.2 Stimulate Continuing Education for Engineering Professional and Technical Societies													Daeek	2229
a. Conduct organizational meeting with society (NSPE, ASEE, etc.)				o									Daeek	2230
b. Co-sponsor one continuing education program							o						Daeek	2231
.3 Monitor and Stimulate Research Grant Projects													Daeek	2232
a. Complete solicitation strategy paper				o									Daeek	2233
b. Solicit applications via RFA													Daeek	2234
c. Monitor research grant projects			2	4	6	8							Daeek	2235
.4 Provide Technical Input to IWS & HHE Programs													Daeek	2236
a. Conduct HHE studies with DSHEFS & DRDS			2	4	6	8							Daeek	2237
b. Conduct IWS studies with DSHEFS				2		4							Daeek	2238
.5 Provide Technical Input to NOHS													Daeek	2239
a. Complete industry "unit" operations paper				o									Daeek	2240
b. Complete "equipment manufacturer" paper				o									Daeek	2241
c. Provide survey recommendations to DSHEFS				o									Daeek	2242
8. Control Technology Assessment - Plating and Cleaning Operations (0.3/20/27.5)(VQC-T31-445)	80	81					b	c	a	4.1	24.1	111.0	Daeek	2243
.1 Assess Control Technology for Plating and Cleaning Operations													DaefN	2244
a. Complete study protocol and tripartite review				o									DaefN	2245
b. Initial plant survey					o								DaefN	2246
c. Complete plant surveys (3Q81)													DaefN	2247
d. Complete final report (4Q81)													DaefN	2248
e. Transmit abstract of final report to Director, NIOSH (copy of report to DTS)(4Q81)													DaefN	2249
													DaefN	2250
													DaefN	2251
													DaefN	2252
													DaefN	2253
													DaefN	2254
													DaefN	2255
													DaefN	2256
													DaefN	2257
													DaefN	2258
													DaefN	2259
													DaefN	2260
													DaefN	2261
													DaefN	2262
													DaefN	2263
													DaefN	2264
													DaefN	2265
													DaefN	2266

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY				PLANNED COMPLETION				M F			RESOURCES						
	I	C	1Q	2Q	3Q	4Q	T	H	D	A	E	U	C		N	MY	\$1000	\$1000
9. Control Technology Assessment - Cement Manufacturing Industry (0.3/10.0/18.0)(VQC-T31-448)	80	81							b	b	d		1.0	307.0	330.9	Daefi	2269	
																Daefi	2270	
																Daefi	2271	
																Daefi	2272	
.1 Assess Control Technology for the Cement Manufacturing Industry																Daefi	2273	
a. Award contract																Daefi	2274	
b. Complete tripartite review					o											Daefi	2275	
c. Complete plant surveys (3Q81)										o						Daefi	2276	
d. Complete final report (4Q81)																Daefi	2277	
e. Transmit abstract of final report to Director, NIOSH (copy of report to DTS)(4Q81)																Daefi	2278	
																Daefi	2279	
																Daefi	2280	
																Daefi	2281	
10. Control Technology Input to Criteria Document Updates (0.5/5.0/10/0)(VQC-D31-418)	80	81							b	b	a		5.5	297.3	419.0	DaefN	2284	
																DaefN	2285	
																DaefN	2286	
																DaefN	2287	
.1 Control Technology Input to Silica Criteria Document Update																DaefN	2288	
a. Conduct literature review																DaefN	2289	
b. Complete plant surveys																DaefN	2290	
c. Complete input to criteria document update																DaefN	2291	
.2 Control Technology Assessment for Criteria Document Updates																DaefN	2292	
a. Award contract																DaefN	2293	
b. Complete plant surveys (2Q81)																DaefN	2294	
c. Receive final report (3Q81)																DaefN	2295	
d. Transmit abstract of final report to Director, NIOSH (copy of report to DTS)(4Q81)																DaefN	2296	
																DaefN	2297	
																DaefN	2298	
																DaefN	2299	
																DaefN	2300	

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY		PLANNED COMPLETION				M F		RESOURCES					
	I	C	1Q	2Q	3Q	4Q	T	H	D	MY			\$1000	\$1000
11. Control Technology Assessment - Chemical Process Industries (0.8/18.0/34.0)(0.5/10.0/23.0)(VQC-T31-406)	80	82					b	a	a	1.0	972.3	996.2	DaecN 2303	
.1 Assess Speciality Chemical Manufacturing industry													DaecN 2304	
a. Award contract					o								DaecN 2305	
b. Complete preliminary surveys (2Q81)													DaecN 2306	
c. Complete plant surveys (4Q81)													DaecN 2307	
d. Receive final report (1Q82)													DaecN 2308	
e. Transmit abstract of final report to Director, NIOSH (copy of report to DTS) (2Q82)													DaecN 2309	
f. Complete control guidelines (4Q82)													DaecN 2310	
.2 Assess Resource Recovery Plants													DaecN 2311	
a. Complete plant surveys					o								DaecN 2312	
b. Receive final report													DaecN 2313	
c. Transmit abstract of final report to Director, NIOSH (copy of report to DTS)							o						DaecN 2314	
.3 Assess the Petroleum Refining Industry													DaecN 2315	
a. Submit RFC to OPPE			o										DaecN 2316	
b. Award contract					o								DaecN 2317	
c. Complete preliminary surveys (3Q81)													DaecN 2318	
d. Complete plant surveys (1Q82)													DaecN 2319	
e. Receive final report (2Q82)													DaecN 2320	
f. Transmit abstract of final report to Director, NIOSH (copy of report to DTS)(2Q82)													DaecN 2321	
g. Complete control guidelines (4Q82)													DaecN 2322	
12. Control Technology Assessment - Wood Preserving Industry (0.3/10.0/18.0)(VQC-T31-409)	80	81					b	c	a	1.0	14.1	36.6	DaecN 2323	
.1 Assess the Wood Preserving Industry with DSHEFS													DaecN 2324	
a. Initiate plant surveys					o								DaecN 2325	
b. Complete plant surveys (2Q81)													DaecN 2326	
c. Complete final report (3Q81)													DaecN 2327	
d. Transmit abstract of final report to Director, NIOSH (copy of report to DTS)(3Q81)													DaecN 2328	
													DaecN 2329	
													DaecN 2330	
													DaecN 2331	
													DaecN 2332	
													DaecN 2333	
													DaecN 2334	
													DaecN 2335	
													DaecN 2336	
													DaecN 2337	
													DaecN 2338	
													DaecN 2339	
													DaecN 2340	
													DaecN 2341	

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY	I	C	PLANNED COMPLETION				M	F	A	E	U	RESOURCES		MY	\$1000	\$1000					
				1Q	2Q	3Q	4Q						C	C						N	FF	TF
				T	H	D	T						H	D								
13. Control Technology Evaluation of Welding, Cutting and RF Sealing Equipment (VQC-D31-420)(2.0/45.0/95.0)(VQC-T31-449)	80	81						b	c	a		3.0	66.0	129.9				Daerr	2344			
.1 Evaluation of Welding and Cutting Operations																		Daerr	2345			
a. Initiate laboratory and field studies																		Daerr	2346			
b. Complete final report (4Q81)																		Daerr	2347			
c. Transmit abstract of final report to Director, NIOSH (copy of report to DTS)(4Q81)																		Daerr	2348			
.2 Evaluation of RF Sealer Operation																		Daerr	2349			
a. Acquire lab equipment																		Daerr	2350			
b. Complete shielded lab areas																		Daerr	2351			
c. Complete lab studies (3Q81)																		Daerr	2352			
d. Transmit abstract of final report to Director, NIOSH (copy of report to DTS)(4Q81)																		Daerr	2353			
14. Analytical Support to Control Technology and Other Program Areas (VQK-G40-497)(100/VQK-G40-497)	80	80						a	b	a		2.5	23.8	83.6				Daerr	2354			
.1 Provide analytical support for behavioral research studies (DBBS)																		Daerr	2355			
a. Solvents				30	60	90	120											Daerr	2356			
b. Other chemical analyses				10	20	30	40											Daerr	2357			
.2 Provide analytical support for toxicological research studies (DBBS)																		Daerr	2358			
a. Analysis for alkene oxide and nitroaliphatics and other chemicals				5	15	20	25											Daerr	2359			
b. Diesel exhaust/coal dust samples				50	110	170	220											Daerr	2360			
.3 Provide analytical support for control technology assessments (DPSE)				.5k	1.0k	1.5k	2.0k											Daerr	2361			
.4 Provide analytical support for industrial hygiene investigations (DSHEFS)																		Daerr	2362			
a. Reproductive hazards assessment				60	450	700	900											Daerr	2363			
b. General research analytical needs				75		150	350											Daerr	2364			
c. Mining related analyses				50	100	200	260											Daerr	2365			
																		Daerr	2366			
																		Daerr	2367			
																		Daerr	2368			
																		Daerr	2369			
																		Daerr	2370			
																		Daerr	2371			
																		Daerr	2372			
																		Daerr	2373			
																		Daerr	2374			
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																		Daerr	2376			
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																		Daerr	2378			
																		Daerr	2379			
																		Daerr	2380			
																		Daerr	2381			
																		Daerr	2382			
																		Daerr	2383			
																		Daerr	2384			
																		Daerr	2385			
																		Daerr	2386			
																		Daerr	2387			
																		Daerr	2388			

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY		PLANNED COMPLETION				M F A E U C C N T H D			RESOURCES			
	I	C	1Q	2Q	3Q	4Q	MY	\$1000	\$1000	FF	TF		
15. Passive Monitor and Sensor Development (VQU-D23-437)(2/100/125)(100/VQU-D23-437)	79	81						c b d	2.6	304.1	366.2	Dceim	2391
.1 Develop direct reading instrument for explosives												Dceim	2392
a. Transmit RFC to Director DPSE												Dceim	2393
b. Award contract			o									Dceim	2394
c. Transmit final report to Director NIOSH and DTS (4Q81)				o								Dceim	2395
.2 Feasibility study for passive direct reading in mask sensors												Dceim	2396
a. Transmit RFC to Director DPSE			o									Dceim	2397
b. Award contract				o								Dceim	2398
c. Transmit final report to Director NIOSH and DTS (4Q81)												Dceim	2399
.3 Develop liquid bound samplers												Dceim	2400
a. Award unsolicited proposal contract to develop methods for O3, NO2 and SO2			o									Dceim	2401
b. Transmit final report to Director NIOSH and DTS (4Q81)												Dceim	2402
.4 Evaluate passive monitors as requested							2					Dceim	2403
.5 Evaluation of whole air samplers												Dceim	2404
a. Begin lab studies			o									Dceim	2405
b. Write report with recommendations							o					Dceim	2406
16. Control Monitoring Equipment Assessment (VQU-E23-484)(0.2/10/12)(VQX-T31-937)	79	81						b b c	0.4	11.9	21.5	Dcecf	2407
.1 Award contract (4Q79)												Dceim	2408
.2 Review study plan												Dceim	2409
.3 Contractor seminar (1Q81)												Dceim	2410
.4 Submit final report to Director NIOSH and DTS (2Q81)				o								Dceim	2411
												Dceim	2412
												Dceim	2413
												Dceim	2414
												Dceim	2415
												Dcecf	2418
												Dcecf	2419
												Dcecf	2420
												Dcecf	2421
												Dcecf	2422
												Dcecf	2423
												Dcecf	2424
												Dcecf	2425

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY PLANNED COMPLETION				M F A E U C C N T H D			RESOURCES				
	I	C	PLANNED		COMPLETION		MY	\$1000	\$1000			
			1Q	2Q	3Q	4Q						
17. Multiple Substance Monitoring - Chromatography (VQU-E23-484)(1/100/125)(1/100/130)(1/50/80)(VQX-E23-934)	76	83					c b c	0.7	6.6	23.3	DcegJ	2428
.1 Award contract extension (Stanford U. contract 77-0159)(4Q79)			o								DcegJ	2429
.2 Receive prototype GC's				o							DcegJ	2430
.3 Publish second year report					o						DcegJ	2431
.4 Begin preliminary evaluation and testing					o						DcegJ	2432
.5 Prepare RFR for detailed evaluation (70K)											DcegJ	2433
a. Submit RFC (1Q81)											DcegJ	2434
b. Award contract (1Q81)											DcegJ	2435
c. Receive final report (2Q82)											DcegJ	2436
.6 Receive improved prototype GC's (2Q82)											DcegJ	2437
											DcegJ	2438
											DcegJ	2439
											DcegJ	2440
											DcegJ	2441
18. Multiple Substance Monitoring - Spectroscopy (VQU-E23-484)(1/100/125)(1/250/280)(1/50/80)(VQX-E23-935)	80	83					c b c	0.6	125.1	139.4	DcexJ	2444
.1 Develop field mass spectrometer											DcexJ	2445
a. Submit RFC to Director DPSE for feasibility study (possibly 2)				o							DcexJ	2446
b. Award contract											DcexJ	2447
c. Receive final report (4Q81)							o				DcexJ	2448
d. Submit PFC for development of prototype MS (1Q82)											DcexJ	2449
											DcexJ	2450
											DcexJ	2451
											DcexJ	2452
											DcexJ	2453
											DcexJ	2454

CRITERIA DOCUMENT SUPPORT AND STANDARDS DEVELOPMENT

Division of Biomedical and Behavioral Science

Objectives of criteria document support and standards development activities are to provide consultation to NIOSH, OSHA, and others in areas where expertise exists within DBBS. Outputs are expected to be sounder recommendations and better evaluation and interpretation of data by NIOSH, OSHA, and others.

Division of Surveillance, Hazard Evaluations, and Field Studies

The purpose of this program area is to provide to the Institute, OSHA, Congress, etc., DSHEFS' expertise and manpower and data collected from field and surveillance activities for the following: information dissemination goals of NIOSH; comprehensive recommendations for standards; Current Intelligence Bulletins; special hazard reviews; research grants; OSHA standard setting (regulation development, hearings, etc.); and Congressional testimony. DSHEFS staff required for OSHA/NIOSH task forces on recordkeeping, the OSHA generic carcinogen standard, and reducing worker exposure to Category I substances are included in these activities.

Division of Criteria Documentation and Standards Development

The primary responsibility of the Division of Criteria Documentation and Standards Development is to perform a critical evaluation of the most significant scientific information on occupational safety and health problems and then to prepare and disseminate the most appropriate documentation of the hazards to achieve an impact in the workplace in the form of greater worker protection. The documentation may take the form of a recommendation for an emergency temporary standard or comprehensive standard recommendation for transmittal to the Department of Labor (DOL), a special hazard review, an occupational hazard assessment, a guideline, or a Current Intelligence Bulletin. When another component of the Institute has greater expertise in the subject area, DCSD serves in a role of coordination and review. Implicit in the activity of the Division is a function to provide any assistance necessary to users of the documents, especially the DOL's Occupational Safety and Health Administration and Mine Safety and Health Administration in rulemaking activities.

Office of Extramural Coordination and Special Projects

The basic purpose of this program area is to support the Institute's information document preparation and standards development activities by (1) promptly reviewing, evaluating, and supplementing new information received or generated by NIOSH on occupational hazards which are either unrecognized or are more severe than generally known, and disseminating such information in the form of Current Intelligence Bulletins, and (2) participating in the review of other Institute information documents, the preparation of testimony for OSHA/MSHA public hearings, and the preparation of, and backup to, other Congressional hearings.

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY				M F				RESOURCES					
	I	C	PLANNED		COMPLETION		A	E	FF	TF				
			1Q	2Q	3Q	4Q	T	H			D	MY	\$1000	\$1000
*****CRITERIA DOCUMENT SUPPORT AND STANDARDS DEVELOPMENT*****												f	2457	
												f	2458	
												f	2459	
DIVISION OF RESPIRATORY DISEASE STUDIES												A	2460	
												A	2461	
												A	2462	
1. Criteria Documents and Standards Support (VKA-D50-105) (100/VKA-D50-105)	80	C						c	a	1.5	4.5	38.7	AAftn	2464
													AAftm	2465
													AAftm	2466
.1 Contribute to criteria documents (in-house)				1	2	3							AAftm	2467
.2 Review contractor criteria documents			3	8	13	17							AAftm	2468
.3 Support OSHA (DOL) Public hearings			2	4	6	8							AAftm	2469
.4 Participate in Congressional Hearings			o	1	2	3							AAftm	2470
													AAftm	2471
DIVISION OF BIOMEDICAL AND BEHAVIORAL SCIENCE													B	2473
													B	2474
													B	2475
2. Standards Support and Consultation (100/VOT-D50-390)(100/V00-D50-348)(100/VOK-D50-347) (100/V0B-D50-326)(100/V0G-D50-358)	80	80						c	a	7.5	38.4	214.1	BBfay	2477
													BBfay	2478
													BBfay	2479
													BBfay	2480
.1 Review 4 criteria documents				1	2	3	4						BBfay	2481
.2 Review 20 Information Profiles				5	10	15	20						BBfay	2482
.3 Support OSHA at hearings					o		o						BBfay	2483
.4 Provide consultation to other government agencies				4	8	12	16						BBfay	2484
.5 Provide consultation to the private sector				5	10	15	20						BBfay	2485
													BBfay	2486
DIVISION OF SURVEILLANCE, HAZARD EVALUATIONS AND FIELD STUDIES													C	2488
													C	2489
													C	2490
3. Criteria Documentation, Standards Support and Research Grants (100/VMO-D50-608) (100/VMH-D50-606) (100/VMR-D50-615) (100/VMC-D50-613)	80	80						c	a	11	21	256	CCfff	2492
													CCfff	2493
													CCfff	2494
													CCfff	2495
.1 Evaluate and participate on research grants.				5	10	15	20						CCfff	2496
.2 Submit RFAs for research grants to OECSP.				1	2	3	4						CCfff	2497
.3 Complete input to criteria documents, special hazard review, CIBs, etc.				2	4	6	8						CCfff	2498
													CCfff	2499
.4 Complete support to OSHA and MSHA for hearings, etc.				1	2	3	4						CCfff	2500
													CCfff	2501
.5 Complete support and preparation for congressional hearings.				1	2	3	4						CCfff	2502
													CCfff	2503
													CCfff	2504
													CCfff	2505
													CCfff	2506
													CCfff	2507

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY				PLANNED COMPLETION				M F			RESOURCES		
	I	C	1Q	2Q	3Q	4Q	T	H	D	MY			FF	TF
DIVISION OF PHYSICAL SCIENCES AND ENGINEERING														
4. SCP Sampling and Analytical Follow-Up (VQU-D23-489)(100/VQU-D23-489)	78	80					b	a		0.6	6.9	21.3		
.1 Award contract (76-0123)(4Q76)													D	2509
.2 Receive draft final contract report (4Q79)													D	2510
.3 Receive final contract report													D	2511
.4 Publish final contract report													DcfjN	2513
													DcfjN	2514
													DcfjN	2515
													DcfjN	2516
													DcfjN	2517
													DcfjN	2518
													DcfjN	2519
													DcfjN	2520
5. Rapid Scanning Spectrometer for Multiple PNA Analysis (VQU-E23-494)(100/VQX-E23-937)	78	80					c	c		0.5	29.5	41.4	Dcfme	2523
.1 Evaluate system for simultaneous analysis of 5 to 10 PNA's													Dcfme	2524
.2 Test system against field samples													Dcfme	2525
a. Diesel exhausts													Dcfme	2526
b. Coal gasification													Dcfme	2527
.3 Complete upgrading system for absorption and emission spectra													Dcfme	2528
.4 Submit final report on system													Dcfme	2529
													Dcfme	2530
													Dcfme	2531
													Dcfme	2532
													Dcfme	2533
													Dcfme	2534
6. Develop Personal Sampler Performance Specifications (VQU-E22-494)(100/VQU-E23-494)	78	80					b	c		0.6	3.4	17.7	Dcfme	2537
.1 Award contract (contract 210-78-0092)(4Q78)													Dcfme	2538
.2 Transmit report to Director NIOSH													Dcfme	2539
.3 Complete evaluation of computer model													Dcfme	2540
.4 Award (IA 78-27)(4Q78)													Dcfme	2541
.5 Receive report													Dcfme	2542
.6 Transmit report of evaluation and recommendations													Dcfme	2543
													Dcfme	2544
													Dcfme	2545
													Dcfme	2546

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY		PLANNED COMPLETION				M F A E U C C N			RESOURCES		Dcfin		
	I	C	1Q	2Q	3Q	4Q	T	H	D	MY	FF			TF
											\$1000			\$1000
7. Monitoring Methods for the Metals Industries (VQU-D23-465)(0.4/4.0/14.0)(100/VQU-C23-463)(100/VQU-D23-495)	79	81					b	a		2.5	39.2	98.9	2549	
.1 Determine feasibility of XRF for welding and brazing samples (FY 79 criteria document)													2550	
a. Complete evaluation of analytical parameters (4Q79)			o										2551	
b. Complete analysis of field samples				o									2552	
c. Transmit report to Director, DPSE						o							2553	
.2 Determine feasible analytical method for titanium (FY 82 criteria document)													2554	
a. Evaluate instrument parameters				o									2555	
b. Complete analysis of spiked/generated samples					o								2556	
c. Complete analysis of field samples						o							2557	
d. Method and final report written (2Q81)													2558	
.3 Heavy Metal Aerosols: Collection and Dissolution Efficiencies (210-79-0058)(FY 82 CDs for Pt, Se and Te; MSHA rulemaking on Pb Ores, Oxides and Sulfides)													2559	
a. Reports of progress received			1	3	4	6							2560	
b. Final report received (3Q81)													2561	
.4 Monitor contract "Collaborative Test of P&CAM 259 (Free Silica)" (210-79-0059)													2562	
a. Complete Phase I				o									2563	
b. Complete Phase II						o							2564	
c. Complete Phase III (4Q81)													2565	
d. Receive final report (4Q81)													2566	
													2567	
													2568	
													2569	
													2570	
													2571	
													2572	
													2573	
													2574	
													2575	
													2576	

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY PLANNED COMPLETION				M F A E U C C N T H D				RESOURCES		DcfffN		
	I	C	1Q	2Q	3Q	4Q	MY	FF	TF	\$1000			\$1000
8. OSHA Standards Support (VQU-D23-411)(1.6/10.0/46.0)(100/VQU-D23-411)(100/VQU-D23-429)	79	82						b a	3.2	373.9	447.6	DcfffN	2579
.1 Develop single S/A method for five acid mists (including halogen interferences) (OSHA request)												DcfffN	2580
a. Complete evaluation of interferences for acid mists (halogens)				o								DcfffN	2581
b. Determine S/A recovery and precision				o								DcfffN	2582
c. Analyze field samples						o						DcfffN	2583
d. Write class D method and submit report							o					DcfffN	2584
.2 Development of S/A method for inorganic azides (FY 81 CD)												DcfffN	2585
a. Complete evaluation of ion chromatographic method for NaN3 and total azides				o								DcfffN	2586
b. Complete evaluation of IC separation of HN3, alkalai and alkaline earth azides				o								DcfffN	2587
c. Complete evaluation of HPLC for azides, including heavy metal salts (1Q81)												DcfffN	2588
d. Determine the feasibility of a single method for inorganic azides (1Q81)												DcfffN	2589
e. Determine S/A recovery and precision (3Q81)												DcfffN	2590
f. Complete analysis of field samples (3Q81)												DcfffN	2591
g. Write method and submit report (4Q81)												DcfffN	2592
.3 Development of S/A method for chlorine, chlorine dioxide and iodine (OSHA request - Project 7)												DcfffN	2593
a. Submit RFC to OPPE				o								DcfffN	2594
b. Award contract							o					DcfffN	2595
c. Final report due to NIOSH (3Q82)												DcfffN	2596
d. Transmit abstract to Director, NIOSH (4Q82)												DcfffN	2597
.4 Development of a method for the determination of organotins in air (FY 81 criteria document)												DcfffN	2598
a. Submit RFC to OPPE				o								DcfffN	2599
b. Award contract							o					DcfffN	2600
c. Receive final report from contractor (4Q82)												DcfffN	2601
c. Transmit abstract of final r.c.port to Director, NIOSH (4Q82)												DcfffN	2602
.5 Method evaluation and validation - Group 1 (Contract 210-79-0060) (DCDSD request)												DcfffN	2603
a. Receive protocols for methods			1	3	5	6						DcfffN	2604
b. Receive final report from contractor (4Q81) NIOSH (4Q81)												DcfffN	2605
.6 Methods evaluation and validation - Group 3 (Contract 210-79-0101) (DCDSD request)												DcfffN	2606
a. Receive protocols for methods			1	2	4							DcfffN	2607
b. Receive final report from contractor (4Q81)												DcfffN	2608
c. Transmit abstract of final report to Director, NIOSH (4Q81)												DcfffN	2609
												DcfffN	2610
												DcfffN	2611
												DcfffN	2612
												DcfffN	2613
												DcfffN	2614
												DcfffN	2615
												DcfffN	2616
												DcfffN	2617
												DcfffN	2618
												DcfffN	2619
												DcfffN	2620
												DcfffN	2621
												DcfffN	2622
												DcfffN	2623
												DcfffN	2624

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY	PLANNED COMPLETION				M F A E U C C N T H D			RESOURCES				
		I	C	1Q	2Q	3Q	4Q	MY	\$1000	\$1000			
DIVISION OF CRITERIA DOCUMENTATION AND STANDARDS DEVELOPMENT													DcfffN 2625
													F 2627
													F 2628
													F 2629
9. Program Management	70	C						c a	8.4	44.0	233.4		FfffN 2631
(VIA-D50-082) (100/VIA-D50-082)													FfffN 2632
.1 Coordinate the collection of current information on occupational hazards and the development of proposed standards in cooperation with DOL			o	o	o	o							FfffN 2633
.2 Coordinate NIOSH participation for OSHA hearings			o	o	o	o							FfffN 2634
.3 Hold monthly Division project progress review meetings			3	6	9	12							FfffN 2635
.4 Submit quarterly progress reports to OPPE			o	o	o	o							FfffN 2636
.5 Submit final program plans to OPPE for FY 81													FfffN 2637
.6 Submit final project plans to OPPE for FY 81													FfffN 2638
.7 Prepare monthly document scheduling report			3	6	9	12							FfffN 2639
.8 Prepare monthly financial status reports			3	6	9	12							FfffN 2640
.9 Hold quarterly staff meeting on administrative matters			o	o	o	o							FfffN 2641
.10 Conduct award fee meetings on criteria documents				1		2							FfffN 2642
.11 Nominate appropriate staff for recognition at annual award ceremony			o										FfffN 2643
.12 Complete personnel evaluations for commissioned officers			21										FfffN 2644
.13 Complete personnel for civil service employees						50							FfffN 2645
													FfffN 2646
													FfffN 2647
													FfffN 2648
													FfffN 2649
													FfffN 2650
													FfffN 2651

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY	I	C	PLANNED COMPLETION				M F A E U C C N T H D MY			RESOURCES		FaffN	
				1Q	2Q	3Q	4Q	FF	TF		\$1000	\$1000		
10. Document Development (VID-D50-089) (100/VID-D50-089)(100/VII-D30-093)	70		C					b	a	6.3	3859	4571	FaffN	2654
.1 Prepare decision documents for substances and physical agents													FaffN	2655
a. Benzidine-based dyes				o									FaffN	2656
b. Aliphatic primary monoamines				o									FaffN	2657
c. Nitro- and dinitro-toluenes				o									FaffN	2658
d. Trinitrotoluene				o									FaffN	2659
e. Nitrobenzenes				o									FaffN	2660
f. Radio frequency and microwave radiation				o									FaffN	2661
g. Cobalt and its compounds					o								FaffN	2662
h. Wood dust					o								FaffN	2663
i. Styrene					o								FaffN	2664
j. Methyl halides					o								FaffN	2665
k. Aromatic amines					o								FaffN	2666
l. Aliphatic di- and polyamines					o								FaffN	2667
m. Secondary aliphatic amines					o								FaffN	2668
n. Brominated aliphatics					o								FaffN	2669
o. Monochloroethane						o							FaffN	2670
p. Tertiary-aliphatic monoamines						o							FaffN	2671
q. Chlorinated benzenes						o							FaffN	2672
r. Talc						o							FaffN	2673
s. Hexachlorobutadiene							o						FaffN	2674
t. Pentachloroethane							o						FaffN	2675
u. Dichloropropane							o						FaffN	2676
v. Hexachloroethane							o						FaffN	2677
w. Trichloropropanes							o						FaffN	2678
x. Chlorinated hydrocarbon solvents							o						FaffN	2679
.2 Perform necessary additional data collection and complete appropriate final output documents													FaffN	2680
a. Current Intelligence Bulletins (CIB's) and other bulletins				6	14	22	30						FaffN	2681
b. Special Hazard Reviews (SHR's)				1	2	4	6						FaffN	2682
c. Occupational Hazard Assessments (OHA's) - Substances and Agents				1	3	6	9						FaffN	2683
d. Comprehensive Standard Recommendations (CSR's)								2					FaffN	2684
.01 Develop program of needs for CSR's													FaffN	2685
.02 Silica								o					FaffN	2686
.03 Chromates								o					FaffN	2687
e. Complete and publish 18 Occupational Health Guidelines (OHG's) on new subjects						18							FaffN	2688
f. Submit RFC to develop and publish OHG on 15 new subjects					o								FaffN	2689
.3 Develop Occupational Hazard Assessments by industry													FaffN	2690
a. Submit RFC					o								FaffN	2691
b. Award contract													FaffN	2692
c. Phase I: Information gathering and site visits													FaffN	2693

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY I C	PLANNED COMPLETION				M F A E U C C N T H D			RESOURCES	
		1Q	2Q	3Q	4Q	MY	FF	TF	\$1000	\$1000

.01 Slaughtering processes (4Q79)									FaffN	2700
.02 Rendering processes (4Q79)									FaffN	2701
.03 Coal liquefaction (4Q79)									FaffN	2702
.04 Printing				o					FaffN	2703
.05 Foundries					o				FaffN	2704
.06 Welding, brazing, and soldering					o				FaffN	2705
.07 Elastomers manufacturing					o				FaffN	2706
.08 Roofing (2Q81)									FaffN	2707
.09 Isocyanates (3Q81)									FaffN	2708
.10 Paint and allied coatings manufacturing (3Q81)									FaffN	2709
.11 Tire manufacturing (4Q81)									FaffN	2710
d. Phase II: Document development									FaffN	2711
.01 Coal liquefaction		o							FaffN	2712
.02 Slaughtering processes			o						FaffN	2713
.03 Rendering processes			o						FaffN	2714
.04 Printing					o				FaffN	2715
.05 Welding, brazing, and soldering (4Q81)									FaffN	2716
.06 Elastomers manufacturing (3Q81)									FaffN	2717
.07 Roofing (4Q81)									FaffN	2718
.08 Tire manufacturing (3Q82)									FaffN	2719
.09 Paint and allied coatings manufacturing (2Q82)									FaffN	2720
.10 Foundries (4Q82)									FaffN	2721
.11 Isocyanates (3Q82)									FaffN	2722
									FaffN	2723

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY		PLANNED COMPLETION				M F A E U C C N			RESOURCES					
	I	C	1Q	2Q	3Q	4Q	T	H	D	MY	FF			TF	
											\$1000			\$1000	
11. Information and Support Services (100/VII-D50-087)(100/VII-D12-092)(100/VII-D12-099)	70	C								b a	7.2	850	1203	FcfyN	2726
														FcfyN	2727
.1 Information and support services														FcfyN	2728
a. Contract profiles development														FcfyN	2729
.01 Submit RFC for FY80 (second year) funding			o											FcfyN	2730
.02 Receive contractors draft profiles					10	20								FcfyN	2731
.03 Return profiles to contractors with comments						20								FcfyN	2732
.04 Receive final draft profiles from contractor						20								FcfyN	2733
b. In-house profiles development as needed to provide assessment of emerging problems			6	12	18	20								FcfyN	2734
c. Publish profiles			6	12	18	20								FcfyN	2735
.2 Current awareness activity														FcfyN	2736
a. Develop and distribute current awareness newsletter including significant new entries in surveillance and health hazard data systems			3	6	9	12								FcfyN	2737
b. Report on monthly activities under TSCA			3	6	9	12								FcfyN	2738
c. Report on monthly activities of Environmental Carcinogens Testing Selection Committee			3	6	9	12								FcfyN	2739
d. Report on activities of CIIT							o							FcfyN	2740
.3 Literature updates for previously issued documents														FcfyN	2741
a. Planned subjects			2	3	6	10								FcfyN	2742
.01 Silica			o											FcfyN	2743
.02 Trichloroethylene			o											FcfyN	2744
.03 Asbestos				o										FcfyN	2745
.04 Perchloroethylene					o									FcfyN	2746
.05 Ethylene dichloride					o									FcfyN	2747
.06 Cadmium					o									FcfyN	2748
.07 Nickel							o							FcfyN	2749
.08 Toluene							o							FcfyN	2750
.09 Chromium							o							FcfyN	2751
.10 Chlorinated solvents							o							FcfyN	2752
b. Unplanned subjects			0	2	3	5								FcfyN	2753
.4 Editorial services														FcfyN	2754
a. Provide editorial support and review for document production (number of documents)			10	20	30	40								FcfyN	2755
b. Prepare documents for transmittal to DOL			3	6	9	12								FcfyN	2756
c. Participate with NIOSH divisions to develop Institute-wide editorial guidelines.							o							FcfyN	2757
.5 Library														FcfyN	2758
a. Books, subscriptions, and publications ordered			250	500	750	1k								FcfyN	2759
b. Titles catalogued			37	75	112	150								FcfyN	2760
c. Issues of journals circulated or shelved			500	1k	1.5k	2k								FcfyN	2761
d. Reference questions answered			300	600	900	1.2k								FcfyN	2762
e. Microfiche filed			4k	7k	11k	15k								FcfyN	2763
f. Reprints disseminated			270	540	810	1.1k								FcfyN	2764

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY I	C	PLANNED COMPLETION				M F A E U C C N T H D			RESOURCES			
			1Q	2Q	3Q	4Q	MY	FF	TF	\$1000	\$1000		
.6 Chemical Information Awareness System - data base development, analysis, and access												FcfyN	2772
a. Implement EPA inventory/RTECS linkage (Match I) (4Q79)												FcfyN	2773
b. Implement Match I/NOHS linkage (Match II) (4Q79)												FcfyN	2774
c. Identification of data types to be entered into system												FcfyN	2775
d. Input data types related to NIOSH activities												FcfyN	2776
e. Input data types related to other Federal agencies												FcfyN	2777
f. Input selected data types (e.g. physical, chemical properties)												FcfyN	2778
g. Review chemicals resulting from step a and b												FcfyN	2779
h. Integrate items d, e, and f with item g												FcfyN	2780
i. Complete development of priority file												FcfyN	2781
j. Perform monthly update, maintenance of file												FcfyN	2782
k. Review and evaluate feasibility of expanding system												FcfyN	2783
.7 Occupational Health Guidelines (OHG's)												FcfyN	2784
a. Complete revision and publish NIOSH/OSHA OHG's												FcfyN	2785
b. Complete revision and publish Medical Surveillance Reference Document in Support of OHG's												FcfyN	2786
c. Complete revision and publish Respiratory Protection Reference Document in Support of OHG's												FcfyN	2787
d. Complete revision and publish Personal Protection and Sanitation Reference Document in Support of OHG's												FcfyN	2788
												FcfyN	2789
												FcfyN	2790
												FcfyN	2791
												FcfyN	2792
												FcfyN	2793
												FcfyN	2794
												FcfyN	2795

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY	I	C	PLANNED COMPLETION				M F A E U C C N			RESOURCES		FF	TF			
				1Q	2Q	3Q	4Q	T	H	D	MY	\$1000					\$1000
12. Mining Health Criteria and Standards Development (VIA-D50-088) (100/VIA-D50-088)	70		C						b	b	9.2	1397	1620	FbfffN	2798		
1. Comprehensive Standard Recommendations (CSR)														FbfffN	2799		
a. Emergency medical care														FbfffN	2800		
.01 Complete first draft					o									FbfffN	2801		
.02 Review and comment by NIOSH, MSHA, unions, industry					o									FbfffN	2802		
.03 Transmit final CSR to MSHA						o								FbfffN	2803		
b. Silica														FbfffN	2804		
.01 Define scope of information needs					o									FbfffN	2805		
.02 Complete retrieval and review of health literature						o								FbfffN	2806		
.03 Submit RFC on supplementary data acquisition for feasibility assessment							o							FbfffN	2807		
.04 Award contract								o						FbfffN	2808		
.05 Complete evaluation of health literature								o						FbfffN	2809		
.06 Complete site visits									o					FbfffN	2810		
.07 First draft of chapters related to health										o				FbfffN	2811		
.08 Receive final contract report (1Q81)											o			FbfffN	2812		
.09 First draft of CSR (2Q81)												o		FbfffN	2813		
.10 Division review (3Q81)													o	FbfffN	2814		
.11 NIOSH Director's review (3Q81)														FbfffN	2815		
.12 Transmit final CSR to MSHA (4Q81)														FbfffN	2816		
c. Asbestos														FbfffN	2817		
.01 Define scope of information needs					o									FbfffN	2818		
.02 Complete retrieval and review of health literature						o								FbfffN	2819		
.03 Submit RFC on supplementary data acquisition for feasibility assessment							o							FbfffN	2820		
.04 Award contract								o						FbfffN	2821		
.05 Complete evaluation of health literature								o						FbfffN	2822		
.06 Complete site visits									o					FbfffN	2823		
.07 First draft of chapters related to health										o				FbfffN	2824		
.08 Receive final contract report (1Q81)											o			FbfffN	2825		
.09 First draft of CSR (2Q81)												o		FbfffN	2826		
.10 Division review (3Q81)													o	FbfffN	2827		
.11 NIOSH Director's review (3Q81)														FbfffN	2828		
.12 Transmit final CSR to MSHA (4Q81)														FbfffN	2829		
d. Diesel exhaust emissions														FbfffN	2830		
.01 Submit RFC for CSR											o			FbfffN	2831		
.02 Award contract												o		FbfffN	2832		
.03 Complete site visits (2Q81)													o	FbfffN	2833		
.04 Complete first draft (3Q81)														FbfffN	2834		
.05 Division review (4Q81)														FbfffN	2835		
.06 NIOSH Director's review (4Q81)														FbfffN	2836		
.07 Transmit final CSR to MSHA (1Q82)														FbfffN	2837		
2. Mining Information Bulletins (MIB's)														FbfffN	2838		
a. Mill Reagents														FbfffN	2839		
														FbfffN	2840		
														FbfffN	2841		
														FbfffN	2842		
														FbfffN	2843		

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY I C	PLANNED COMPLETION				M F A E U C C N T H D			RESOURCES				
		1Q	2Q	3Q	4Q	MY	FF	TF	\$1000	\$1000			
.01 Complete literature review			o									FbffN	2844
.02 Complete first draft of four MIB's			o									FbffN	2845
.03 Division review				o								FbffN	2846
.04 Final MIB's and summary report				o								FbffN	2847
b. Sanitation												FbffN	2848
.01 Complete draft			o									FbffN	2849
.02 Review draft			o									FbffN	2850
.03 Final report				o								FbffN	2851
3. MSHA hearings support and technical assistance												FbffN	2852
a. Surface miner x-ray program						o						FbffN	2853
b. Welding fumes						o						FbffN	2854
c. Radiation						o						FbffN	2855
d. Noise						o						FbffN	2856
e. Unplanned subjects						o						FbffN	2857
												FbffN	2858
13. Scientific Review and Consultation (VIA-D50-084)(100/VIA-D50-084)	70	C						b a	4.3	40.0	148.0	FafnN	2861
												FafnN	2862
												FafnN	2863
.1 Respond to request for evaluation of health information in support of OSHA enforcement activities			15	30	45	60						FafnN	2864
.2 Assist in evaluation of scientific content of information received under the following DCSD projects			6	14	22	30						FafnN	2865
a. CIB's and other bulletins			1	2	4	6						FafnN	2866
b. SHR's			1	3	6	9						FafnN	2867
c. OHA's						2						FafnN	2868
d. CSR's						2						FafnN	2869
.3 Prepare quarterly updated summary of NIOSH recommendations			1	2	3	4						FafnN	2870
.4 Provide scientific support on special projects to Office of Director, NIOSH			5	10	15	20						FafnN	2871
												FafnN	2872
												FafnN	2873
												FafnN	2874
												FafnN	2875
14. Epidemiologic Activity (100/VIA-D50-078)	80	C						c a	3.7	10.0	79.1	FaffN	2876
												FaffN	2877
												FaffN	2878
.1 Establish epidemiologic activity in organization and functional statement			o									FaffN	2879
.2 Fill epidemiologist's vacancies			2	3								FaffN	2880
.3 Establish informal training seminars for Division staff in epidemiology			o									FaffN	2881
.4 Prepare decision paper on formal intergration of epidemiologic function into Division programs					o							FaffN	2882
.5 Provide review of epidemiologic information in documents under development			10	20	30	40						FaffN	2883
												FaffN	2884
												FaffN	2885
												FaffN	2886
												FaffN	2887
												FaffN	2888
												FaffN	2889
OFFICE OF EXTRAMURAL COORDINATION AND SPECIAL PROJECTS												L	2890
												L	2891
												L	2892
												L	2893
												L	2894

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY I	C	PLANNED COMPLETION				M F A E U C C N T H D			RESOURCES		FF	TF		
			1Q	2Q	3Q	4Q	MY	\$1000	\$1000						
15. Information Document Preparation and Standards Support (VCA-D50-013) (0/0/0.04) (100/VCA-D50-013)	71	C						c a	1.2	0	26			LLfFN	2896
														LLfFN	2897
.1 Coordinate and/or participate in review of DCDSD information documents			2	4	6	8								LLfFN	2898
.2 Coordinate and/or participate in preparation of testimony for OSHA/MSHA public hearings			1	2	3	4								LLfFN	2899
.3 Participate in preparation of and backup to other Congressional hearings			1	2	3	4								LLfFN	2900
														LLfFN	2901
														LLfFN	2902
														LLfFN	2903
														LLfFN	2904
														LLfFN	2905

ENERGY RESEARCH

Division of Respiratory Disease Studies

The Division intends to direct its FY 80 energy research effort toward those industries which promise increased commercialization and/or wide-scale application. Environmental characterization of worker exposures will continue in the coal liquefaction and gasification industries, and a comprehensive study of a commercial overseas gasifier will be undertaken. Studies of the fluidized bed techniques will be initiated as will a study of the developing waste utilization industry. The medical protocol which was developed under contract in FY 79 will be assessed, in a pilot study, in an effort to implement comprehensive medical examinations of workers in the coal liquefaction and gasification industries.

Division of Surveillance, Hazard Evaluations, and Field Studies

In FY 79, DSHEFS had eight energy-related field studies involving 7 manyears of effort and approximately \$.5 million in EPA funding. In FY 80, this program will continue at a little more than half the FY 79 level of effort. Several of the projects, however, have been reclassified in FY 80 as mining projects. One new EPA-funded project on industrial hygiene characterization of petroleum refinery turnarounds will be initiated pending approval by EPA.

Division of Physical Sciences and Engineering

Analytical support will assist field research related to energy production. Technology assessments will aid in establishing new source performance criteria to prevent hazardous exposure of workers in new energy technologies.

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY				PLANNED COMPLETION				M F			RESOURCES					
	I	C	1Q	2Q	3Q	4Q	T	H	D	MY	FF	TF	\$1000			\$1000	
																	A
*****ENERGY RESEARCH*****																g	2908
																g	2909
																g	2910
DIVISION RESPIRATORY DISEASE STUDIES																A	2911
																A	2912
																A	2913
1. Mutagenic Monitoring for High Risk Workers (*) (VKC-E24-912) (.5/92.0/104.7) (.5/95.0/113.3) (100/VKC-E24-912)	80	82								m b c	.5	96.3	113.4			Adgcn	2915
.1 Complete peer review				o												Adgcn	2916
.2 Receive HSRB clearance					o											Adgcn	2917
.3 Apply for FRA (OMB) clearance						o										Adgcn	2918
.4 Submit RFC							o									Adgcn	2919
.5 Award Contract								o								Adgcn	2920
.6 Complete development of protocol for urine analysis (1Q81)									o							Adgcn	2921
.7 Complete development of protocol for SCE analysis (2Q81)																Adgcn	2922
.8 Complete selection of workers and control group for testing (3Q81)																Adgcn	2923
.9 Complete assav for mutagenic activity of air particulate and gases collected from workplace (3Q81)																Adgcn	2924
.10 Complete urine analysis for the control group (4Q81)																Adgcn	2925
.11 Complete SCE analysis for the control group (1Q82)																Adgcn	2926
.12 Complete urine analysis for the workers (2Q82)																Adgcn	2927
.13 Complete SCE analysis for the workers (3Q82)																Adgcn	2928
.14 Complete final report and submit abstract to Director, NIOSH (4Q82)																Adgcn	2929
2. Morbity & IH Study of Workers Exposed to SOX/NOX (VKL-E21-170) (100/VKL-E21-170)	77	80								i c c	1.5	18.2	69.5			Aagit	2930
.1 Complete medical/environmental surveys at diesel bus garages					o											Aagit	2931
.2 Complete data anlysis and final report with copy of abstract to Director, NIOSH								o								Aagit	2932
																Aagit	2933
																Aagit	2934
																Aagit	2935
																Aagit	2936
																Aagit	2939
																Aagit	2940
																Aagit	2941
																Aagit	2942
																Aagit	2943
																Aagit	2944
																Aagit	2945
																Aagit	2946

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY	I	C	PLANNED COMPLETION				M F A E U C C N T H D	MY	RESOURCES				
				1Q	2Q	3Q	4Q			FF	TF			
										\$1000	\$1000			
3. Mort/IH Study of Workers in Coal Fired Power Plants-TVA (VKL-E21-238) (1.0/20.0/55.0) (100/VKL-E21-238)	76	81						i g c	1.5	31.8	83.1	Aagtd	2949	
SUB AGREEMENT I - IH Studies												Aagtd	2950	
.1 Monitor IH work performed by TVA under sub-agreement I.				o	o	o	o					Aagtd	2951	
SUB AGREEMENT II - Mortality Study												Aagtd	2952	
.1 To monitor TVA work performed under Mortality Study Sub-agreement.				o	o	o	o					Aagtd	2953	
.2 All data obtained on cases sent to DRDS by TVA					o							Aagtd	2954	
.3 On cases not in TVA retirement system, all death certificates completed and case location services underway							o					Aagtd	2955	
.4 Return completed tapes with all mortality data obtained by DRDS-NIOSH to TVA. (1Q81)												Aagtd	2956	
.5 Final data tapes prepared; study groups and control groups selected. (2Q81)												Aagtd	2957	
.6 Analysis and preparation of final report. (4Q81)												Aagtd	2958	
.7 Submit abstract to Director, DRDS (4Q81)												Aagtd	2959	
4. I.H. Characterization of Resource Recovery Industry (VKP-E22-226) (100/VKP-E22-226)	78	80						f a c	0.8	4.6	28.5	Aagtd	2960	
.0 Award contract (4Q79)												Abgtz	2961	
.1 Contractor to submit study proposal				o								Abgtz	2962	
.2 Initiate comprehensive IH surveys				o								Abgtz	2963	
.3 Complete IH surveys							o					Abgtz	2964	
.4 Prepare final report and submit for review								o				Abgtz	2965	
.5 Receive monthly reports from contractor				o	o	o	o					Abgtz	2966	
.6 Quarterly reports from contractor				o	o	o	o					Abgtz	2967	
.7 Receive final report and submit abstract to Director, NIOSH								o				Abgtz	2968	
DIVISION OF SURVEILLANCE, HAZARD EVALUATIONS AND FIELD STUDIES												Abgtz	2969	
												C	2970	
												C	2971	
												C	2972	
5. Mortality and Industrial Hygiene Study of Workers Exposed to Sulfuric Acid (100/VMH-E21-579)	76	80						i b c	1.1	58	95	Cbgic	2973	
.1 Complete vital status follow-up submission to SSA				o								Cbgic	2974	
.2 Complete industrial hygiene report.					o							Cbgic	2975	
.3 Complete master file update.							o					Cbgic	2976	
.4 Complete final report and transmit abstract to Director, NIOSH and copy to DTS. (210-78-0102)								o				Cbgic	2977	
												Cbgic	2978	
												Cbgic	2979	
												Cbgic	2980	
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												Cbgic	2997	

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY PLANNED COMPLETION				M F A E U C C N T H D			RESOURCES		Cbgtii		
	I	C	PLANNED COMPLETION				MY	FF TF				
			1Q	2Q	3Q	4Q		\$1000	\$1000			
6. Industrial Hygiene Study of Petroleum Refineries (100/VMH-E22-584)	78	80					f b c	0.5	3	21	Cbgtii	3000
.1 Receive last plant survey reports from contractor (210-78-0082).				o							Cbgtii	3001
.2 Complete final report and transmit abstract to Director, NIOSH and copy to DTS.					o						Cbgtii	3002
											Cbgtii	3003
											Cbgtii	3004
											Cbgtii	3005
											Cbgtii	3006
											Cbgtii	3007
7. Industrial Hygiene Study of Insulation Material Workers (100/VMH-E22-582)	78	80					f b c	0.4	2	15	Cbgtii	3010
.1 Complete individual industrial hygiene survey reports.			o								Cbgtii	3011
.2 Receive draft final report from contractor (210-78-0081)				o							Cbgtii	3012
.3 Complete final report and transmit abstract to Director, NIOSH and copy to DTS.					o						Cbgtii	3013
											Cbgtii	3014
											Cbgtii	3015
											Cbgtii	3016
											Cbgtii	3017
8. Industrial Hygiene Characterization of Petroleum Refinery Turnarounds (0.4/7.0/20.0) (0.4/7.0/20.0) (100/VMH-E22-682)	80	82					f c c	0.4	11	24	Cbgtii	3020
.1 Complete study protocol.			o								Cbgtii	3021
.2 Complete peer review.				o							Cbgtii	3022
.3 Complete tripartite review.					o						Cbgtii	3023
.4 Initiate industrial hygiene surveys (2Q81).											Cbgtii	3024
.5 Complete final report and transmit abstract to Director, NIOSH and copy to DTS (4Q82).											Cbgtii	3025
											Cbgtii	3026
											Cbgtii	3027
											Cbgtii	3028
											Cbgtii	3029
											Cbgtii	3030
											D	3032
											D	3033
											D	3034

DIVISION OF PHYSICAL SCIENCES AND ENGINEERING

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY PLANNED COMPLETION				M F			RESOURCES						
	I	C	1Q	2Q	3Q	4Q	A	E	U			FF	TF	
							C	C	N					
9. Aerosol Monitoring Development (VQU-E23-484)(2/30/80)(VQX-E23-932)	76	81					c	b	c	1.8	377.8	420.8	DcgJN	3036
.1 Automated fiber counting system													DcgJN	3037
a. Complete evaluation													DcgJN	3038
b. Transmit report to Director (1Q81)													DcgJN	3039
.2 Joint OSHA/NIOSH field evaluation of FAM													DcgJN	3040
a. Complete field trips													DcgJN	3041
b. Transmit final report to Director NIOSH and OSHA													DcgJN	3042
.3 Develop personal direct reading mass monitor													DcgJN	3043
a. Submit RFC to Director DPSE													DcgJN	3044
b. Award contract													DcgJN	3045
c. Receive report (4Q81)													DcgJN	3046
.4 Develop real time aerodynamic sizing particle monitor													DcgJN	3047
a. Submit RFC to Director DPSE													DcgJN	3048
b. Award contract													DcgJN	3049
c. Receive instrument and report (2Q81)													DcgJN	3050
.5 Evaluation of portable XRF instrument (DOE IA 79-12)													DcgJN	3051
a. Receive instruments and final report													DcgJN	3052
b. Complete evaluation													DcgJN	3053
c. Transmit report to Director NIOSH, DTS and EPA (1Q81)													DcgJN	3054
.6 Sponsor symposium on measurement and regulation of dust exposures													DcgJN	3055
a. Submit IA to BOM													DcgJN	3056
b. Hold symposium													DcgJN	3057
c. Publish proceedings													DcgJN	3058
10. PNA Aerosol Methods Development (1.5/100/250)(0.3/10/25)(VQX-M23-475)	80	82											DcgJN	3059
.1 Complete laboratory method evaluation for PNA/ metal fume mixtures													DcgJN	3060
.2 Submit final report on evaluation (1Q81)													DcgJN	3061
.3 Collect diesel exhaust/coal dust samples													DcgJN	3062
.4 Complete evaluation of methods for diesel exhaust/coal dust													DcgJN	3063
.5 Submit final report on method evaluation (1Q81)													DcgJN	3064
OFFICE OF EXTRAMURAL COORDINATION AND SPECIAL PROJECTS													DcgJN	3065
													DcgJN	3066
													DcgJN	3067
													DcgJN	3068
													DcgJN	3069
													DcgJN	3070
													DcgJN	3071
													DcgJN	3072
													DcgJN	3073
													DcgJN	3074
													DcgJN	3075
													DcgJN	3076
													L	3078
													L	3079
													L	3080

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY		PLANNED COMPLETION				M F		RESOURCES		MY	\$1000	\$1000					
	I	C	1Q	2Q	3Q	4Q	T	H	C	C						N	FF	TF
11. Committee on Interagency Assessments of Energy Technologies (VCA-100-025) (0.2/0/0.01) (100/VCA-100-025)	79	80						x	d	a	0.2		5.0	LLggg	3082			
										c		50	50.0	LLggg	3083			
.1 Complete work group report on health effects of conventional and advanced coal technologies				o										LLggg	3084			
.2 Establish activity on the oil and gas recovery, transportation, and storage panel				o										LLggg	3085			
.3 Report on oil and gas activity				o										LLggg	3086			
.4 Complete summary report on fossil fuels					o									LLggg	3087			
.5 Submit final committee report to the President							o							LLggg	3088			
														LLggg	3089			
														LLggg	3090			
														LLggg	3091			
														LLggg	3092			

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY I C	PLANNED COMPLETION				M F A E U C C N T H D	MY	RESOURCES		h	
		1Q	2Q	3Q	4Q			FF	TF		
		\$1000	\$1000	\$1000	\$1000			\$1000	\$1000		
*****ERGONOMIC RESEARCH*****										h	3095
										h	3096
										h	3097
DIVISION OF BIOMEDICAL AND BEHAVIORAL SCIENCE										B	3098
										B	3099
										B	3100
1. Work Practices for Lifting Tasks (VOK-G21-277)(.5/14.0/25.0)(100/VOK-G21-277)	79	81				m b a	0.8	61.9	81.8	BbhNi	3102
.1 Consult Information Office			o							BbhNi	3103
.2 Submit progress report to Director, DBBS (1Q81)			o	o	o	o				BbhNi	3104
.3 Work Practices Guide			o							BbhNi	3105
a. Receive draft of guide from consultants (3Q79)										BbhNi	3106
b. Obtain consultant's review of guide			o							BbhNi	3107
c. Submit guide for publication processing				o						BbhNi	3108
d. Submit fee for service to evaluate applicability of guide (high-risk jobs)				o						BbhNi	3109
e. Complete plant survey of high risk jobs					o					BbhNi	3110
f. Submit report to Director, DBBS						o				BbhNi	3111
.4 Contract: One-handed Lifting (#210-79-0044)										BbhNi	3112
a. Complete peer review of RFC (2Q79)										BbhNi	3113
b. Submit RFC to Director, DBBS (2Q79)										BbhNi	3114
c. Award contract			o							BbhNi	3115
d. Contractor submits protocol for HSRB clearance			o							BbhNi	3116
e. HSRB clearance obtained				o						BbhNi	3117
f. Contractor initiates subject testing				o						BbhNi	3118
g. Contractor completes subject testing				o						BbhNi	3119
h. Monitor contract				o	o	o				BbhNi	3120
i. Submit final report to Director, DBBS (2Q81)										BbhNi	3121
j. Submit abstract of final report to Director, NIOSH (2Q81)										BbhNi	3122
										BbhNi	3123
										BbhNi	3124
										BbhNi	3125
										BbhNi	3126
										BbhNi	3127

GENERAL RESEARCH

Division of Biomedical and Behavioral Science

This is a broad program to study workplace hazards, including physical and chemical agents and human factors and their interactions. A comprehensive program to investigate hazards of skin exposure, including photosensitization, is being initiated. Outputs are expected to be recommendations for control, including a work practice guide for lifting, and recommendations for respirator design.

Division of Physical Sciences and Engineering

The major thrust is to ensure the availability of sampling and analytical methodology to support various NIOSH and regulatory agency needs. Quicker and lower levels of detection are the goals of these efforts to provide worker protection.

Division of Surveillance, Hazard Evaluations, and Field Studies

DSHEFS general research program will increase in FY 80--12 new projects will be initiated. Most of the new efforts are related to expansion of the DSHEFS surveillance program, including the initiation of NOHS-II and developing State-based activities. In addition, a number of new field studies are proposed related to the non-malignant, chronic effects (cardiovascular, neurologic, hepatic, and renal) of occupational exposure to toxic agents or processes.

Office of Extramural Coordination and Special Projects

By means of research and demonstration grants and P.L. 480 research projects, NIOSH supports research and demonstrations at appropriate academic and other institutions, domestic and foreign, with interest in, and capability of, conducting research and performing demonstrations supportive of occupational safety and health standards and other Institute initiatives. Within the grants program, special attention is being given to certain initiative areas for which RFAs will be written, such as skin disorders, reproductive effects, digestive diseases, control technology, safety, energy, sidestream smoking, and MSHA/OSHA research needs. In addition, up to \$2 M will be transferred from NCI to NIOSH for a special research/demonstration grant program in the area of asbestos in schools. Availability of funds for grants and NIOSH areas of emphasis are made known to the research community through such mechanisms as program announcements and requests for RFAs.

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY PLANNED COMPLETION				M F A E U C C N T H D			RESOURCES														
	I	C	1Q	2Q	3Q	4Q	M	F	A			E	U	C	C	N	T	H	D	MY	FF	TF
																					\$1000	\$1000
*****GENERAL RESEARCH IN SUPPORT OF STANDARDS*****																					i	3130
																					i	3131
																					i	3132
DIVISION OF BIOMEDICAL AND BEHAVIORAL SCIENCE																					B	3133
																					B	3134
																					B	3135
1. Neurotoxicity of Ethylene and Propylene Oxides (VOB-B24-324) (0.2/20/25) (100/VOB-B24-324)	78	81								k	c	a						0.7	5.0	22.4	Baibn	3137
.1 Complete peer review (1Q78)																					Baibn	3138
.2 Complete instrumentations of tests (2Q78)																					Baibn	3139
.3 Initiate inhalation exposures and animal testing (3Q79)																					Baibn	3140
.4 Perform serial neurological tests (4Q79)																					Baibn	3141
.5 Consult Information Office																					Baibn	3142
.6 Submit progress report to Director, DBBS (1Q,2Q,3Q81)																					Baibn	3143
.7 Conduct final neurological tests (2Q81)																					Baibn	3144
.8 Perform terminal sacrifice (2Q81)																					Baibn	3145
.9 Complete final report (4Q81)																					Baibn	3146
.10 Submit final project report to Director, DBBS (4Q81)																					Baibn	3147
.11 Submit abstract to Director, NIOSH C4Q800(4Q81)																					Baibn	3148
																					Baibn	3149
																					Baibn	3150
																					Baibn	3151
																					Baibn	3152
2. Renal Impairment due to Environmental Stressors (VOK-G24-345)(100/VOK-G24-345)	78	80								k	c	a						1.6	13.2	50.2	Bbinn	3155
.1 Conduct peer review (1Q78)																					Bbinn	3156
.2 Complete assay development (3Q78)																					Bbinn	3157
.3 Evaluate renal responses																					Bbinn	3158
a. Hypertensive rats (4Q78)																					Bbinn	3159
b. Vibrated monkeys (4Q78)																					Bbinn	3160
.4 Begin range finding ethoxyethanol doses (2Q79)																					Bbinn	3161
.5 Complete range finding study (3Q79)																					Bbinn	3162
.6 Begin chronic ethoxyethanol study (4Q79)																					Bbinn	3163
.7 Consult Information Office																					Bbinn	3164
.8 Submit progress report to Director, DBBS																					Bbinn	3165
.9 Complete renal testing of ethoxyethanol																					Bbinn	3166
.10 Submit final project report to Director, DBBS																					Bbinn	3167
.11 Submit abstract of final report to Dir., NIOSH C1Q800																					Bbinn	3168
																					Bbinn	3169
																					Bbinn	3170
																					Bbinn	3171

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY				PLANNED COMPLETION				M F			RESOURCES				
	I	C	1Q	2Q	3Q	4Q	A E U			MY	\$1000	\$1000				
							C	C	N							
						T	H	D								
3. Susceptibility to Organ Damage: Effects of Aging (1.5/25.0/62.3)(100/VOK-G24-718)	80	81							k	c	a	1.5	12.5	45.7	Bbiqz	3174
															Bbiqz	3175
.1 Obtain consultant views regarding experimental approach			o												Bbiqz	3176
.2 Complete peer review				o											Bbiqz	3177
.3 Consult Information Office				o											Bbiqz	3178
.4 Initiate basic methods development				o											Bbiqz	3179
.5 Complete basic methods development				o											Bbiqz	3180
.6 Submit progress report to Director, DBBS (1Q,2Q,3Q81)			o	o		o		o							Bbiqz	3181
.7 Initiate studies to establish decrements in function capacity vs resistance to damage in young animals					o										Bbiqz	3182
.8 Complete studies of function capacity vs resistance to damage in young animals					o										Bbiqz	3183
.9 Initiate study of decrements in function capacity vs resistance to damage in old animals (1Q81)								o							Bbiqz	3184
.10 Complete studies of function capacity vs resistance to damage in old animals (2Q81)															Bbiqz	3185
.11 Submit final report to Director, DBBS (4Q81)															Bbiqz	3186
.12 Submit abstract of final report to Director, NIOSH (4Q81)															Bbiqz	3187
															Bbiqz	3188
															Bbiqz	3189
															Bbiqz	3190
															Bbiqz	3191
															Bbiqz	3192
															Bbiqz	3193
															Bbiqz	3194

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY		PLANNED COMPLETION				M F A E U C C N			RESOURCES			
	I	C	1Q	2Q	3Q	4Q	T	H	D	MY	FF	TF	
											\$1000	\$1000	
4. Cutaneous Toxicity Hazards (2.0/100.2/150.0)(2.0/65.0/105.0)(2.0/65.0/105.0) (100/V00-G24-779)	80	83					k	b	a	0.9	27.1	49.5	Bcipn 3197
													Bcipn 3198
													Bcipn 3199
													Bcipn 3200
.1 Consult Information Office													Bcipn 3201
.2 Complete literature review													Bcipn 3202
.3 Objective 1. Irritation and Sensitization Studies on NIOSH priority chemicals													Bcipn 3203
													Bcipn 3204
a. Develop hazard data sheet													Bcipn 3205
b. Submit H.D.S. to Director, DBBS													Bcipn 3206
c. Submit H.D.S. to all project staff													Bcipn 3207
d. Complete acrolein study													Bcipn 3208
e. Complete N,N-dimethylacetamide study													Bcipn 3209
f. Complete ethyl silicate													Bcipn 3210
g. Complete cyclohexylamine study													Bcipn 3211
h. Submit manuscript for publication													Bcipn 3212
i. Complete other priority compounds (FY81, 82, 83)													Bcipn 3213
.4 Objective 2. Irritation and sensitization studies of DSHEFS samples													Bcipn 3214
													Bcipn 3215
a. Complete studies on DSHEFS samples (FY81,82,83)													Bcipn 3216
.5 Objective 3. Photosensitization Method													Bcipn 3217
a. Initiate literature review													Bcipn 3218
b. Complete literature review													Bcipn 3219
c. Assist in evaluation and standardization of method (1Q,2Q,3Q,4Q,81)													Bcipn 3220
													Bcipn 3221
d. Initiate photosensitization testing by contract (3Q82)													Bcipn 3222
e. Monitor photosensitization contract (1Q,2Q,3Q,4Q,83)													Bcipn 3223
.6 Objective 4. Formulation of long-term cutaneous toxicity program													Bcipn 3224
													Bcipn 3225
a. Initiate literature survey on feasibility study for development of percutaneous absorption kinetics model													Bcipn 3226
b. Complete literature review													Bcipn 3227
c. Complete protocol design for percutaneous absorption model													Bcipn 3228
													Bcipn 3229
d. Complete ordering of equipment for model													Bcipn 3230
e. Initiate in-house studies on percutaneous absorption kinetics (2Q81)													Bcipn 3231
													Bcipn 3232
f. Initiate feasibility study on dermatogen screening kit (4Q81)													Bcipn 3233
													Bcipn 3234
g. Complete feasibility study (4Q81)													Bcipn 3235
													Bcipn 3236
h. Complete percutaneous absorption kinetic studies (4Q82)													Bcipn 3237
i. Initiate literature search on role of biologicals in occupational dermatoses (1Q82)													Bcipn 3238
													Bcipn 3239
j. Complete literature search (2Q82)													Bcipn 3240
k. Submit manuscript of literature review (3Q82)													Bcipn 3241
l. Submit manuscript on percutaneous absorption kinetics													Bcipn 3242

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY		PLANNED COMPLETION				M F A E U C C N			RESOURCES													
	I	C	1Q	2Q	3Q	4Q	T	H	D	MY	FF			TF									
											\$1000			\$1000									
(1Q83)																							
.7 Submit progress report to Director, DBBS (1Q,2Q,3Q,4Q,81)(1Q,2Q,3Q,4Q,82)(1Q,2Q,3Q,83)			o	o	o	o																	Bcipn 3243
																							Bcipn 3244
.8 Submit final project report to Director, DBBS (4Q83)																							Bcipn 3245
.9 Submit abstract of final report to Director, NIOSH (4Q83)																							Bcipn 3246
																							Bcipn 3247
																							Bcipn 3248
5. Chronic Inhalation Toxicity of Organic Oxides (V00-G24-302)(5.5/40/177)(0.1/0.5/3.0)(100/V00-G24-302)	78	82								k c a	5.5	69.5	195.4										Bcitrn 3251
																							Bcitrn 3252
.1 Complete peer review (2Q78)																							Bcitrn 3253
.2 Standardize and calibrate new inhalation chambers (1Q79)																							Bcitrn 3254
.3 Initiate inhalation exposures to ethylene oxide and propylene oxide (3Q79)																							Bcitrn 3255
.4 Consult Information Office																							Bcitrn 3256
.5 Perform 6-month pulmonary function, hematology, clinical chemistry and neurophysiology testing			o																				Bcitrn 3257
.6 Perform 12-month pulmonary function, hematology, clinical chemistry and neurophysiology testing			o																				Bcitrn 3258
.7 Submit progress report to Director, DBBS (1Q,2Q,3Q,4Q,81) (1Q,2Q,82)			o	o	o	o																	Bcitrn 3259
.8 Perform 18-month pulmonary function, hematology, clinical chemistry, neurophysiology and renal function testing (1Q81)																							Bcitrn 3260
.9 Complete inhalation exposures (1Q81)																							Bcitrn 3261
.10 Perform terminal sacrifice (monkeys)(1Q81)																							Bcitrn 3262
.11 Perform terminal sacrifice (rats) (3Q81)																							Bcitrn 3263
.12 Complete pathology reports (2Q82)																							Bcitrn 3264
.13 Complete data analysis (2Q82)																							Bcitrn 3265
.14 Submit final project report to Director, DBBS (3Q82)																							Bcitrn 3266
.15 Submit abstract of final report to Dir., NIOSH C4Q81D(3Q82)																							Bcitrn 3267
																							Bcitrn 3268
																							Bcitrn 3269
																							Bcitrn 3270
																							Bcitrn 3271
																							Bcitrn 3272
																							Bcitrn 3273
																							Bcitrn 3274
																							Bcitrn 3275

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY PLANNED COMPLETION				M F A E U C C N			RESOURCES						
	I	C	1Q	2Q	3Q	4Q	T	H	D	MY			\$1000	\$1000
6. Postal Cancellation Ink (V00-C24-286)(0.1/0.5/3.0)(100/V00-C24-777)	79	81					k	b	a	0.1	0.5	3.0	Bc1pn	3278
.1 Complete peer review (1Q79)													Bc1pn	3279
.2 Submit RFC to contract office (1Q79)													Bc1pn	3280
.3 Award contract (210-79-0035) (3Q79)													Bc1pn	3281
.4 Submit progress report to Director, DBBS (1Q81)(2Q81)(3Q81)			o	o	o	o							Bc1pn	3282
.5 Make site visit to contractor				c		o							Bc1pn	3283
.6 Consult Information Office (1Q81)													Bc1pn	3284
.7 Receive draft final report from contractor (2Q81)													Bc1pn	3285
.8 Receive final report from contractor (3Q81)													Bc1pn	3286
.9 Submit final report to Director, DBBS (3Q81)													Bc1pn	3287
.10 Submit final report to U.S. Postal Service (3Q81)													Bc1pn	3288
.11 Submit abstract of final report to Dir., NIOSH C4Q80D(3Q81)													Bc1pn	3289
7. Aging - Effect on Biotransformation Rates (100/V00-G24-778)	80	80					k	c	a	0.3	19.5	27.0	Bc1pn	3290
.1 Consult Information Office			o										Bc1pn	3291
.2 Complete peer review			o										Bc1pn	3292
.3 Submit protocol to Director, DBBS				o									Bc1pn	3293
.4 Initiate study of rate of biotransformation of compound 1 in the rat				o									Bc1pn	3294
.5 Complete study of rate of biotransformation of compound 1 in the rat					o								Bc1pn	3295
.6 Initiate study of rate of biotransformation of compound 2 in the rat					o								Bc1pn	3296
.7 Complete study of rate of biotransformation of compound 2 in the rat						o							Bc1pn	3297
.8 Submit progress report to Director, DBBS			o	o	o	o							Bc1pn	3298
.9 Submit final report to Director, DBBS						o							Bc1pn	3299
.10 Submit abstract of final report to Director, NIOSH						o							Bc1pn	3300
													Bc1pn	3301
													Bc1pn	3302
													Bc1pn	3303
													Bc1pn	3304
													Bc1pn	3305
													Bc1pn	3306
													Bc1pn	3307
													Bc1pn	3308
													Bc1pn	3309
													Bc1pn	3310
													Bc1pn	3311
													Bc1pn	3312
													Bc1pn	3313

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY				PLANNED COMPLETION				M F			RESOURCES				
	I	C	1Q	2Q	3Q	4Q	T	H	D	MY	FF	TF	\$1000			\$1000
8. Biotransformation of Priority Chemicals (1.7/57.7/100.0)(100/V00-624-776)	80	81					k	c	a	1.7	51.2	93.5	Bcicn	3316		
.1 Consult Information Office			o										Bcicn	3317		
.2 Conduct project peer review			o										Bcicn	3318		
.3 Submit project protocol to Director, DBBS			o										Bcicn	3319		
.4 Develop Hazard Data Sheet (H.D.S.)			o										Bcicn	3320		
.5 Submit H.D.S. to Director, DBBS			o										Bcicn	3321		
.6 Submit H.D.S. to all project staff			o										Bcicn	3322		
.7 Initiate study of the biotransformation of n-butyl acetate in the rat			o										Bcicn	3323		
.8 Complete study of the biotransformation of n-butyl acetate in the rat					o								Bcicn	3324		
.9 Initiate study of the biotransformation of tert-butylamine in the rat				o									Bcicn	3325		
.10 Complete study of the biotransformation of tert-butylamine in the rat						o							Bcicn	3326		
.11 Initiate study of the biotransformation of the isomeric tetramethylbenzenes in the rat				o									Bcicn	3327		
.12 Complete study of the biotransformation of the isomeric tetramethylbenzenes in the rat							o						Bcicn	3328		
.13 Submit progress report to Director, DBBS (1Q,2Q,3Q81)			o	o	o	o							Bcicn	3329		
.14 Submit final FY80 project report to Director, DBBS (4Q81)							o						Bcicn	3330		
.15 Submit abstract to Director, NIOSH (4Q81)													Bcicn	3331		
.16 Select priority compounds for FY81 study (1Q81)													Bcicn	3332		
.17 Initiate biotransformation studies (1Q81)													Bcicn	3333		
.18 Complete biotransformation studies (3Q81)													Bcicn	3334		
.19 Complete draft final report (4Q81)													Bcicn	3335		
.20 Submit final FY81 project report to Director, DBBS (4Q81)													Bcicn	3336		
.21 Submit abstract to Director, NIOSH (4Q81)													Bcicn	3337		
													Bcicn	3338		
													Bcicn	3339		
													Bcicn	3340		
													Bcicn	3341		
													Bcicn	3342		
													Bcicn	3343		
													Bcicn	3344		
													Bcicn	3345		
													Bcicn	3346		
													Bcicn	3347		

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY PLANNED COMPLETION				M F A E U C C N			RESOURCES						
	I	C	1Q	2Q	3Q	4Q	T	H	D			MY	FF	TF
													\$1000	\$1000
9. Insulating Materials, Long-Term Inhalation Effects - EPA (V00-E24-340)(0.1/151.6/155.3)(100/V00-E24-340)	78	81					k	a	c	0.1	150.2	153.9	Bcitrn	3350
.1 Complete peer review (1Q78)													Bcitrn	3351
.2 Submit RFC to contract office (2Q78)													Bcitrn	3352
.3 Award contract (210-78-0037) (4Q78)													Bcitrn	3353
.4 Complete baseline biological testing (2Q79)													Bcitrn	3354
.5 Initiate inhalation exposures (3Q79)													Bcitrn	3355
.6 Consult Information Office													Bcitrn	3356
.7 Complete 9-month pulmonary function testing				o	o								Bcitrn	3357
.8 Submit contractor's progress report to Dir., DBBS (1Q,2Q81)				o	o	o	o						Bcitrn	3358
.9 Complete 18-month exposure regimen (1Q81)													Bcitrn	3359
.10 Complete terminal sacrifice of rats and monkeys (1Q81)													Bcitrn	3360
.11 Complete pathology (3Q81)													Bcitrn	3361
.12 Review draft of final report (3Q81)													Bcitrn	3362
.13 Submit final report to Director, DBBS (4Q81)													Bcitrn	3363
.14 Submit abstract of final report to Director, NIOSH (4Q81)													Bcitrn	3364
DIVISION OF SURVEILLANCE, HAZARD EVALUATIONS AND FIELD STUDIES													Bcitrn	3365
													C	3366
													C	3367
													C	3368
													C	3370
													C	3371
													C	3372
10. Biomedical Instrumentation and Data Systems (100/VMR-G20-604)	80	80					s	c	a	3.1	25	94	Cdijc	3374
.1 Complete manual on fundoscopic camera.					o								Cdijc	3375
.2 Complete training of personnel for questionnaire terminals									o				Cdijc	3376
.3 Complete specifications for laboratory minicomputer installation.									o				Cdijc	3377
.4 Complete evaluation of blood samples analysis using carboxymeter.									o				Cdijc	3378
									o				Cdijc	3379
									o				Cdijc	3380
									o				Cdijc	3381
									o				Cdijc	3382
									o				Cdijc	3383
11. Industrial Hygiene Characterization of Electric Components Industry (0.5/1.0/25.0) (100/VMH-G22-667)	80	81					f	b	a	0.8	94	112	Cbiii	3386
.1 Submit RFC to OAMS.					o								Cbiii	3387
.2 Award contract.													Cbiii	3388
.3 Initiate walk-through surveys.									o				Cbiii	3389
.4 Complete final report and transmit abstract to Director, NIOSH and copy to DTS (2Q81).									o				Cbiii	3390
									o				Cbiii	3391
									o				Cbiii	3392
									o				Cbiii	3393
									o				Cbiii	3394
									o				Cbiii	3395

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY		PLANNED COMPLETION				M F A E U C C N			RESOURCES				
	I	C	1Q	2Q	3Q	4Q	T	H	D	MY	FF		TF	
											\$1000		\$1000	
12. Medical and Industrial Hygiene Study of Workers Exposed to Adrenocortical Steroids (1.0/46.0/70.0) (1.0/46.0/70.0) (100/VMH-G21-628)	79	82					i	c	a	0.9	49	69	Cbiii 3398 Cbiii 3399 Cbiii 3400 Cbiii 3401 Cbiii 3402 Cbiii 3403 Cbiii 3404 Cbiii 3405 Cbiii 3406 Cbiii 3407	3398 3399 3400 3401 3402 3403 3404 3405 3406 3407
.1 Complete walk-through surveys. .2 Initiate medical and industrial hygiene studies. .3 Complete data analysis (4Q81). .4 Complete final report and transmit abstract to Director NIOSH (1Q82).				o		o							Cbiii 3408 Cbiii 3409 Cbiii 3410 Cbiii 3411 Cbiii 3412 Cbiii 3413 Cbiii 3414 Cbiii 3415 Cbiii 3416 Cbiii 3417 Cbiii 3418 Cbiii 3419 Cbiii 3420 Cbiii 3421	3408 3409 3410 3411 3412 3413 3414 3415 3416 3417 3418 3419 3420 3421
13. Mortality, Medical and Industrial Hygiene Study of Workers Exposed to Nitroglycerin (1.0/48.0/70.0) (1.0/48.0/70.0) (100/VMH-G21-669)	80	82					i	c	a	0.5	50	61	Cbicc 3410 Cbicc 3411 Cbicc 3412 Cbicc 3413 Cbicc 3414 Cbicc 3415 Cbicc 3416 Cbicc 3417 Cbicc 3418 Cbicc 3419 Cbicc 3420 Cbicc 3421	3410 3411 3412 3413 3414 3415 3416 3417 3418 3419 3420 3421
.1 Complete peer and tripartite review for mortality study. .2 Complete microfilming of records. .3 Complete industrial hygiene surveys. .4 Complete data analysis for mortality study (4Q81). .5 Complete final reports on mortality and medical studies and transmit abstract to Director, NIOSH and copy to DTS (4Q82).				o		o			o				Cbicc 3422 Cbicc 3423 Cbicc 3424 Cbicc 3425 Cbicc 3426 Cbicc 3427 Cbicc 3428 Cbicc 3429 Cbicc 3430 Cbicc 3431 Cbicc 3432 Cbicc 3433 Cbicc 3434	3422 3423 3424 3425 3426 3427 3428 3429 3430 3431 3432 3433 3434
14. Medical and Industrial Hygiene Study of Workers Exposed to DNBP (0.4/32.0/40.0) (100/VMH-G21-672)	80	81					i	c	a	0.4	35	43	Cbiii 3424 Cbiii 3425 Cbiii 3426 Cbiii 3427 Cbiii 3428 Cbiii 3429 Cbiii 3430 Cbiii 3431 Cbiii 3432 Cbiii 3433 Cbiii 3434	3424 3425 3426 3427 3428 3429 3430 3431 3432 3433 3434
.1 Complete peer and tripartite review. .2 Submit RFA package. .3 Initiate medical and industrial hygiene surveys. .4 Initiate data analysis. .5 Complete final report and transmit abstract to Director, NIOSH and copy to DTS (3Q81).				o		o			o				Cbiii 3435 Cbiii 3436 Cbiii 3437 Cbiii 3438 Cbiii 3439 Cbiii 3440 Cbiii 3441 Cbiii 3442 Cbiii 3443 Cbiii 3444 Cbiii 3445 Cbiii 3446 Cbiii 3447	3435 3436 3437 3438 3439 3440 3441 3442 3443 3444 3445 3446 3447
15. Delayed Neurotoxicity of Organophosphorus Exposed Workers (2.0/27.0/75.0) (100/VMR-G21-610)	78	81					i	c	a	3.6	51	131	Cdiii 3436 Cdiii 3437 Cdiii 3438 Cdiii 3439 Cdiii 3440 Cdiii 3441 Cdiii 3442 Cdiii 3443 Cdiii 3444 Cdiii 3445 Cdiii 3446 Cdiii 3447	3436 3437 3438 3439 3440 3441 3442 3443 3444 3445 3446 3447
.1 Complete field surveys. .2 Complete study protocol for validity testing. .3 Complete data analysis for neurological study. .4 Complete final report for neurological study and transmit abstract to Director, NIOSH and copy to DTS. .5 Complete final report on validity study and transmit abstract to Director, NIOSH and copy to DTS (4Q81).				o		o			o				Cdiii 3448 Cdiii 3449 Cdiii 3450 Cdiii 3451 Cdiii 3452 Cdiii 3453 Cdiii 3454 Cdiii 3455 Cdiii 3456 Cdiii 3457 Cdiii 3458 Cdiii 3459	3448 3449 3450 3451 3452 3453 3454 3455 3456 3457 3458 3459
16. Neurological Effects in Pesticide Exposed Workers	80	81					g	c	a	0.3	35	42	Cdiii 3446 Cdiii 3447	3446 3447

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY		PLANNED COMPLETION				M F A E U C C N			RESOURCES			
	I	C	1Q	2Q	3Q	4Q	T	H	D	MY	FF		TF
											\$1000		\$1000
(0.3/33.0/40.0) (100/VMR-G22-675)													
.1 Complete peer review.			o									Cdii 3450	
.2 Complete tripartite review.				o								Cdii 3451	
.3 Submit RFA package.					o							Cdii 3452	
.4 Complete medical tests.					o							Cdii 3453	
.5 Complete draft of final report.						o						Cdii 3454	
.6 Complete final report and transmit abstract to Director, NIOSH and copy to DTS (2Q81).												Cdii 3455	
												Cdii 3456	
												Cdii 3457	
												Cdii 3458	
												Cdii 3459	
17. Mortality Study of Workers Exposed to Carbon Monoxide (0.5/29.0/40.0) (100/VMH-G21-673)	80	81					h	c	a	0.5	36	47	Cbicc 3462
.1 Complete peer review.			o										Cbicc 3463
.2 Complete data entry.					o								Cbicc 3464
.3 Initiate follow-up.						o							Cbicc 3465
.4 Complete final report and transmit abstract to Director, NIOSH and copy to DTS (4Q81).													Cbicc 3466
													Cbicc 3467
													Cbicc 3468
													Cbicc 3469
													Cbicc 3470
18. Case Control Study of Goodpasture's Syndrome (0.3/13.0/20.0) (100/VMH-G22-674)	80	81					g	c	a	0.3	10	17	Cbiii 3473
.1 Complete study protocol.			o										Cbiii 3474
.2 Complete peer and HSRB review.					o								Cbiii 3475
.3 Submit RFA package.					o								Cbiii 3476
.4 Initiate data collection.						o							Cbiii 3477
.5 Complete final report and transmit abstract to Director, NIOSH and copy to DTS (4Q81).													Cbiii 3478
													Cbiii 3479
													Cbiii 3480
													Cbiii 3481
													Cbiii 3482
DIVISION OF PHYSICAL SCIENCES AND ENGINEERING													D 3484
													D 3485
													D 3486
19. Applied Analytical Support Methodology (VQK-G40-496)(100/VQK-G40-496)	80	80					d	b	a	2.0	150.0	197.8	Dbijj 3488
.1 Update x-ray analytical capability x-ray powder diffraction and x-ray secondary emission spectrometry									o				Dbijj 3489
.2 Develop test kits for field analyses of three compounds			1	2	3								Dbijj 3490
.3 Submit RFC to OPPE for specialized organic analyses			o										Dbijj 3491
.4 Award contract				o									Dbijj 3492
													Dbijj 3493
.5 Improve or develop four analytical methods			1	2	3	4							Dbijj 3494
.6 Investigate alternative sampling methods to impinger collection for two compounds			1		2								Dbijj 3495
													Dbijj 3496
													Dbijj 3497
													Dbijj 3498
													Dbijj 3499
													Dbijj 3500
													Dbijj 3501

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY PLANNED COMPLETION				M F A E U C C N			RESOURCES		DcicN				
	I	C	1Q	2Q	3Q	4Q	T	H	D			MY	\$1000	\$1000
20. Analytical Methods for Organic Contaminants (VQU-D23-474)(VQU-D23-438)(VQU-C23-472)(1.8/34.5/77.5) (VQC-D23-438)(VQC-D23-474)(VQC-G23-500)	78	81					d	b	a	8.8	125.9	336.2	3504	
.1 Complete quantitative air sampling and analytical methods for:													3505	
a. 2,4-Toluene diisocyanate (item a of OSHA Project 7)(3Q79)			o										3506	
b. 4,4-Methylenediphenyl isocyanate						o							3507	
c. Ethylene glycol (FY81 CD)						o							3508	
d. Methyl ethyl ketone peroxide (Item e of OSHA Project 7)													3509	
e. Benzidine-derived dyes (FY80 CIB)				o									3510	
-. Aldehydes (acrolein is Item g of OSHA Project 7)(3Q81)				o									3511	
.2 Study desorption of organics from charcoal to improve reliability of air monitoring methods using charcoal tubes					o								3512	
.3 Complete air monitoring method for amines using ion chromatography (FY79 and 80 criteria documents) (3Q81)													3513	
.4 Complete field evaluate quantitative air sampling and analytical method for pesticides which exist as both aerosol and vapor (OSHA generic standard)(2Q81)													3514	
.5 Provide research support for two HHEs							2						3515	
.6 Report research on measuring chrysene and other polynuclear aromatic hydrocarbons in workplace air (1Q79)			o										3516	
.7 Receive final report from NIOSH-IA-78-11 (2Q79)			o										3517	
OFFICE OF EXTRAMURAL COORDINATION AND SPECIAL PROJECTS													3518	
													3519	
													3520	
													3521	
													3522	
													3523	
													3524	
													3525	
													3526	
													3527	
													3528	
													L 3530	
													L 3531	
													L 3532	

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY		PLANNED COMPLETION				M F A E U C C N T H U MY			RESOURCES			
	I	C	1Q	2Q	3Q	4Q				FF	TF		
										\$1000	\$1000		
21. Research and Demonstration Grants (VCE-G60-016) (0/6.4/6.4) (100/VCE-G60-016) (VCE-G60-017) (7/0.05/0.3) (100/VCE-G60-017)	71	C					i e a	7.0	6444	6598	LaiiN	3534	
							e e		2000	2000	LaiiN	3535	
											LaiiN	3536	
											LaiiN	3537	
.1 Submit IA with NIH to OPPE for Division of Research Grants/NIH grant processing services								o			LaiiN	3538	
.2 Obtain signatures of concurrence on IA with NIH								o			LaiiN	3539	
.3 Grant stimulation activities											LaiiN	3540	
a. Submit for publication completed Requests for Applications (RFAs) for following emphasis areas:											LaiiN	3541	
.01 Skin disorders			o								LaiiN	3542	
.02 Digestive disease			o								LaiiN	3543	
.03 Control technology				o							LaiiN	3544	
.04 Safety				o							LaiiN	3545	
.05 Energy/mining/radiation				o							LaiiN	3546	
.06 Sidestream smoking			o								LaiiN	3547	
.07 MSHA/OSHA research needs				o							LaiiN	3548	
.08 Reproductive hazards				o							LaiiN	3549	
b. Complete review of NIOSH project plans, identifying areas suitable for possible grant support			o								LaiiN	3550	
c. Identify areas of additional support for research grants from IAs with NCI, EPA, and DOE					o						LaiiN	3551	
.4 Grant proposals received in program emphasis areas											LaiiN	3552	
a. Skin disorders			2		4	6					LaiiN	3553	
b. Neurologic disorders			2		4	7					LaiiN	3554	
c. Cardiovascular disease			1		2	4					LaiiN	3555	
d. Reproductive effects			4		8	10					LaiiN	3556	
e. Digestive disease			o		1	2					LaiiN	3557	
f. Control technology			5		10	14					LaiiN	3558	
g. Asbestos and asbestos substitutes			2		4	6					LaiiN	3559	
h. Behavioral and motivational factors			4		7	11					LaiiN	3560	
i. Safety			4		8	12					LaiiN	3561	
j. Musculoskeletal and back disorders			1		2	3					LaiiN	3562	
k. Energy/mining/radiation			1		3	5					LaiiN	3563	
l. Sidestream smoking			2		3	4					LaiiN	3564	
m. Respiratory disease			5		11	17					LaiiN	3565	
n. Other			17		33	50					LaiiN	3566	
.5 Safety and Occupational Health Study											LaiiN	3567	
Section (SOH-ES) meetings											LaiiN	3568	
a. Percent grant applications received sent to reviewers 2 months prior to meeting											LaiiN	3569	
b. Hold Study Section meetings			o	o	o						LaiiN	3570	
c. Research grant applications reviewed			55	60	70						LaiiN	3571	
d. Training grant applications reviewed			10	14	16						LaiiN	3572	
e. Grant applications approved (percent)											LaiiN	3573	

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY PLANNED COMPLETION				M F A E U C C N T H D			RESOURCES		
	I	C	1Q	2Q	3Q	4Q	MY	FF	TF	
								\$1000	\$1000	
.01 Research			40	42	45					Lai IN 3580
.02 Training			30	35	38					Lai IN 3581
.03 Total			38	40	44					Lai IN 3582
f. Percent summary statements completed for printing within 30 days			100	100	100					Lai IN 3583
.6 Grants recommended for award in emphasis areas										Lai IN 3584
a. Skin disorders			o	1	1	1				Lai IN 3585
b. Neurologic disorders			o	o	1	1				Lai IN 3586
c. Cardiovascular disease			1	1	1	1				Lai IN 3587
d. Reproductive effects			o	2	2	4				Lai IN 3588
e. Digestive disease			o	o	1	2				Lai IN 3589
f. Control technology			1	2	3	3				Lai IN 3590
g. Asbestos and asbestos substitutes			o	o	o	4				Lai IN 3591
h. Behavioral and motivational factors			1	1	1	2				Lai IN 3592
i. Safety			1	2	2	2				Lai IN 3593
j. Musculoskeletal and back disorders			o	1	1	1				Lai IN 3594
k. Energy/mining/radiation			o	1	1	2				Lai IN 3595
l. Sidestream smoking			o	1	1	1				Lai IN 3596
m. Respiratory disease			o	1	1	2				Lai IN 3597
n. Other			2	4	6	8				Lai IN 3598
.7 Non-competitive continuation awards			8	34	38	42				Lai IN 3599
.8 Assignment of technical advisors										Lai IN 3600
a. Number of active research grants				70		80				Lai IN 3601
b. Number of active research grants with TAs				70		75				Lai IN 3602
.9 Conduct orientation for new TAs				o		o				Lai IN 3603
.10 Annual grant progress reports received from TAs				10		20				Lai IN 3604
.11 Plan dissemination strategy for results of NIOSH-supported grants				o						Lai IN 3605
.12 Submit for publication NIOSH annual Research Grant Summary						o				Lai IN 3606
.13 Submit proposed SOH-SS nominees to Director, NIOSH			o							Lai IN 3607
.14 Grant inquiries handled										Lai IN 3608
a. Number of announcements/RFAs mailed			50	100	150	200				Lai IN 3609
b. Number of pre-proposals reviewed			25	50	75	100				Lai IN 3610
										Lai IN 3611
										Lai IN 3612
										Lai IN 3613
										Lai IN 3614

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY I	C	PLANNED COMPLETION				M F A E U C C N T H D			RESOURCES		LLiN		
			1Q	2Q	3Q	4Q	MY	FF	TF	\$1000	\$1000			
22. International Activities (VCA-100-024) (1.2/0.04/0.08) (100/VCA-100-024)	71	C					i	f	a	1.2	139	166	LLiN	3617
													LLiN	3618
.1 Complete new research agreements under PL-480				1	2								LLiN	3619
.2 Update accession list of final reports and publications from PL-480 research									o				LLiN	3620
.3 Submit FY 81 International Travel Plan									o				LLiN	3621
.4 Status of PL-480 final reports													LLiN	3622
a. Number of PL-480 research projects completed in FY 80													LLiN	3623
b. Number of final reports received including projects completed in FY 79				3	6	7							LLiN	3624
c. Number of abstracts transmitted to NIOSH Director due 1 month after receipt of final report					3	6	7						LLiN	3625
													LLiN	3626
.5 Hold meeting between Polish delegation and NIOSH staff in followup to U.S.-Polish Medical Week on Occupational Health				o									LLiN	3627
													LLiN	3628
.6 Hold meeting between Mexican Hygiene and Occupational Health staff and NIOSH staff to discuss occupational health portion of U.S.-Mexico Border Joint Health Statement				o									LLiN	3629
													LLiN	3630
.7 Hold meeting between NIOSH staff and staff of Finland's Institute of Occupational Health to exchange results of research recently completed but not yet published					o								LLiN	3631
													LLiN	3632
.8 Support preparation of Joint OSHA/NIOSH/Commission of European Communities International Workshop on the "Use of Ambient Monitoring and Biological Indicators to Assess Exposure to Toxic Agents in the Workplace"						o							LLiN	3633
													LLiN	3634
													LLiN	3635
													LLiN	3636
													LLiN	3637
													LLiN	3638
													LLiN	3639
													LLiN	3640
													LLiN	3641
													LLiN	3642
													LLiN	3643
													LLiN	3644
													LLiN	3645
													LLiN	3646
													LLiN	3647
													LLiN	3648

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY I C	PLANNED COMPLETION				M F A E U C C N			RESOURCES				
		1Q	2Q	3Q	4Q	T	H	D	MY	FF	TF		
		\$1000		\$1000		\$1000		\$1000		\$1000			
*****HEALTH HAZARD EVALUATIONS*****											J	3651	
											J	3652	
											J	3653	
DIVISION OF RESPIRATORY DISEASE STUDIES											A	3654	
											A	3655	
											A	3656	
1. Mining HHE (VKP-M33-153) (100/VKP-M33-153)	79					x	c	m	12.0	110.8	316.0	Abj dm	3658
												Abj dm	3659
.1 Conduct health hazard evaluations (HHE) and Technical Assistance (TA)		5	5	10	10							Abj dm	3660
.2 Complete HHE and TA reports within 90 days		3	3	7	7							Abj dm	3661
.3 Submit annual mining/industries HHE report to Director, NIOSH		o										Abj dm	3662
												Abj dm	3663
												Abj dm	3664
												Abj dm	3665
												Abj dm	3666
DIVISION OF SURVEILLANCE, HAZARD EVALUATIONS AND FIELD STUDIES												C	3668
												C	3669
												C	3670

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY		PLANNED COMPLETION				M F			RESOURCES				
	I	C	1Q	2Q	3Q	4Q	A	E	U	FF	TF			
							C	C	N					T
2. Health Hazard Evaluations and Technical Assistance (100/VMC-333-012)	80	80					x	b	a	76	2.0m	3.7m	CaJJJ	3672
													CaJJJ	3673
													CaJJJ	3674
													CaJJJ	3675
.1 HE/TA requests received/acknowledged.			60	120	180	250							CaJJJ	3676
													CaJJJ	3677
.2 Initial surveys conducted.			50	100	160	235							CaJJJ	3678
													CaJJJ	3679
a. HETAB			35	70	110	160							CaJJJ	3680
													CaJJJ	3681
b. Regions			15	30	45	65							CaJJJ	3682
													CaJJJ	3683
c. Other					5	10							CaJJJ	3684
													CaJJJ	3685
.3 Follow-up surveys conducted.			30	60	90	125							CaJJJ	3686
													CaJJJ	3687
a. HETAB			20	40	60	80							CaJJJ	3688
													CaJJJ	3689
b. Regions			10	20	30	40							CaJJJ	3690
													CaJJJ	3691
c. Other						5							CaJJJ	3692
													CaJJJ	3693
.4 Interim reports completed.			50	100	150	200							CaJJJ	3694
													CaJJJ	3695
.5 Medical contractor task reports received.			5	10	15	20							CaJJJ	3696
													CaJJJ	3697
.6 Final HE & TA reports completed.			40	80	130	180							CaJJJ	3698
													CaJJJ	3699
a. HE			30	60	100	140							CaJJJ	3700
													CaJJJ	3701
b. TA			10	20	30	40							CaJJJ	3702
													CaJJJ	3703
Principal Investigator (PI) Components:													CaJJJ	3704
a. HETAB, IHS			20	40	70	100							CaJJJ	3705
													CaJJJ	3706
b. Regions, IH			15	30	45	60							CaJJJ	3707
													CaJJJ	3708
c. HETAB, MS			10	25	40	60							CaJJJ	3709
													CaJJJ	3710
d. Medical Services Contract			5	10	15	20							CaJJJ	3711
													CaJJJ	3712
e. Other			2	4	7	10							CaJJJ	3713
													CaJJJ	3714
.7 Non-PI field assistance trips			30	60	90	120							CaJJJ	3715
													CaJJJ	3716
a. HETAB, IHS			20	40	60	80							CaJJJ	3717

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY I C	PLANNED COMPLETION				M F A E U C C N			RESOURCES				
		1Q	2Q	3Q	4Q	T	H	D	MY	FF	TF		
										\$1000	\$1000		
b. HETAB, MS		10	20	30	40							CaJJJ 3718	
.8 Other requests serviced		30	60	90	120							CaJJJ 3719	
.9 Meet with major unions regarding HHE promotion.			5	10								CaJJJ 3720	
.10 Submit RFC to OAMS for HHE evaluation program.			0									CaJJJ 3721	
.11 Award contract.					0							CaJJJ 3722	
.12 Publish HHE results for similar industries.		1	2	3	4							CaJJJ 3723	
.13 Award cooperative agreement for state/universities to conduct HHEs.					0							CaJJJ 3724	
.14 Complete additional staffing of one region to conduct HHEs.					0							CaJJJ 3725	
DIVISION OF PHYSICAL SCIENCES AND ENGINEERING												CaJJJ 3726	
												CaJJJ 3727	
												CaJJJ 3728	
												CaJJJ 3729	
												CaJJJ 3730	
												CaJJJ 3731	
												CaJJJ 3732	
												CaJJJ 3733	
												CaJJJ 3734	
												CaJJJ 3735	
												CaJJJ 3736	
												D 3738	
												D 3739	
												D 3740	
3. Measurement Support Services (VQK-G40-452)(100/VQK-G40-452)	80	80					a	b	a	1.0	1315	1339	Dbjyi 3742
.1 Submit RFC for renewal of comprehensive analytical chemistry services to PGMB.			0										Dbjyi 3743
.2 Award Contract (210-77-0071)					0								Dbjyi 3744
.3 Submit summary of services received, 3rd year of contract 210-77-0071 to Contracting Officer						0							Dbjyi 3745
.4 Coordinate analytical service requests from various Divisions/Offices and Regions		140	280	420	560								Dbjyi 3746
.5 Maintain a cumulative average turnaround time for IH samples of 10 work days		10	10	10	10								Dbjyi 3747
.6 Report average residence time of IH samples in laboratory in total days to Director, DPSE		0	0	0	0								Dbjyi 3748
.7 Provide sampling and analytical effort on four short-term special projects			1	3	4								Dbjyi 3749
													Dbjyi 3750
													Dbjyi 3751
													Dbjyi 3752
													Dbjyi 3753
													Dbjyi 3754
													Dbjyi 3755
													Dbjyi 3756
													Dbjyi 3757
													Dbjyi 3758

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY PLANNED COMPLETION				M F			RESOURCES						
	I	C	1Q	2Q	3Q	4Q	A	E	U	FF			TF	
							C	C	N					
							T	H	D					
							MY	\$1000	\$1000					
4. Analytical Support to DSHEFS and DRDS for HHE & TA (VQK-333-460)(100/VQK-333-460)	80	80					a	b	a	13.5	195.0	517.7	Dbjyi	3761
.1 Provide routine analyses of samples for HHE and TA initial surveys from DSHEFS			1.5k	3k	4.5k	6k							Dbjyi	3762
.2 Provide non-routine analyses of samples from HHE & TA initial surveys from DSHEFS.			300	600	900	1.2k							Dbjyi	3763
.3 Provide routine analyses of samples from follow-up HHE and TA surveys from DSHEFS.			800	1.6k	2.4k	3k							Dbjyi	3764
.4 Provide non-routine analyses of samples from follow-up HHE and TA surveys from DSHEFS.			200	400	600	800							Dbjyi	3765
.5 Provide analyses of samples submitted from Regional Industrial surveys (not HHE or TA).			200	400	600	800							Dbjyi	3766
.6 Submit RFC to OPPE for Method Development Contract.			o	o									Dbjyi	3767
.7 Award Contract.				o									Dbjyi	3768
.8 Maintain a cumulative average turnaround time for in-house HHE and TA samples of 30 workdays			30	30	30	30							Dbjyi	3769
.9 Provide analyses of samples from General Industry HHE's from DRDS.			100	200	300	400							Dbjyi	3770
.10 Provide short-term method development or modification efforts in support of HHE/TA studies			4	8	12	16							Dbjyi	3771
5. Methods Development for Health Hazard Evaluations (VQU-C23-463)(1.0/26.0/50.0)(100/VQU-C23-463)	79	81					d	c	a	3.6	72.1	158.2	Dbjyi	3772
.1 Develop in-house capabilities for multielement analyses (ICP-AES) of industrial hygiene samples (support HHE)													Dbjyi	3773
a. Complete determination of lower limit for quantitative determination (LLQD) for all hardwired channels			o										Dbjyi	3774
b. Determine LLQD on N+1 channel for Sb, Ba, Hf, Ta, Rh				o									Dbjyi	3775
c. Determine concentration levels of representative elements in three filter matrices					o								Dbjyi	3776
d. Complete analysis of samples from diesel exhaust/coal dust study						o							Dbjyi	3777
e. Analyze representative field samples (smelter, welding, galvanizing plants)(1Q81)													Dbjyi	3778
f. Submit abstract of final report to Director (3Q81)													Dbjyi	3779
.2 Improve (software) capabilities in XRF, ICP and XRD deconvolution for increased sample throughput (support HHE)			o		o								Dbjyi	3780
a. Obtain software support items (compilers, loaders, etc.													Dbjyi	3781
b. Obtain training in use of supplied software					o								Dbjyi	3782
c. Complete improvements to software													Dbjyi	3783
d. Submit final report to Director, DPSE													Dbjyi	3784
.3 Unidentified HHE requests				1	2								Dbjyi	3785
OFFICE OF EXTRAMURAL COORDINATION AND SPECIAL PROJECTS													Dbjyi	3786
													L	3807

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY I C	PLANNED COMPLETION				M F A E U C C N T H D	RESOURCES			L		
		1Q	2Q	3Q	4Q		MY	FF	TF			
								\$1000	\$1000			
6. Regional Office Services (VCH-100-015) (1.5/0.02/0.07) (100/VCH-100-015) (VCI-G11-702) (34/0.160/1.290) (100/VCI-G11-702)	71	C					t c a	36.5	182	941	L	3810
											L	3811
.1 Conduct health hazard evaluations (HHEs) in determining toxic effects of substances used in the workplace per Section 20(a)(6) of the OSH Act								17.0)			LLjyN	3813
a. FY 79 carryover requests											LLjyN	3814
.01 Expected carryover requests (30 initial surveys; 10 followup surveys)			40								LLjyN	3815
.02 Complete remaining initial surveys			10								LLjyN	3816
.03 Conduct followup environmental surveys			10	30							LLjyN	3817
.04 Submit draft final report to DSHEFS			15	30	40						LLjyN	3818
b. FY 80 requests											LLjyN	3819
.01 HHE requests assigned			25	50	75	100					LLjyN	3820
.02 Conduct initial surveys			15	40	60	80					LLjyN	3821
.03 Conduct followup environmental surveys			15	30	50	70					LLjyN	3822
.04 Submit draft final reports to DSHEFS				15	30	50					LLjyN	3823
.2 Investigate workplace hazards and provide industrial hygiene and safety consultative services, self-initiated and upon request			25	50	75	100		(8.0)			LLjyN	3824
.3 Conduct onsite monitoring and evaluation of, and provide consultation to, State occupational safety and health programs to determine developmental progress and effectiveness			o	o	o	o					LLjyN	3825
.4 Submit to OSHA recommendations on administrative and technical adequacy of 22 States, Section 23(g) of OSH Act occupational safety and health grants						22					LLjyN	3826
.5 Site-visit each ERC semiannually for program monitoring and recruitment purposes; site-visit other appropriate institutions within the regions for stimulation or monitoring research or training grants			10	20	30	40					LLjyN	3827
.6 Provide lectures, seminars, or training sessions within the regions to promote occupational safety and health			5	50	75	100					LLjyN	3828
.7 Plan and conduct three regional program-planning meetings			1	2	3						LLjyN	3829
.8 Prepare and submit to CDC Institute guidelines for RHAs annual workplans						o					LLjyN	3830
											LLjyN	3831
											LLjyN	3832
											LLjyN	3833
											LLjyN	3834
											LLjyN	3835
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											LLjyN	3850
											LLjyN	3851
											LLjyN	3852
											LLjyN	3853

WORKFORCE DEVELOPMENT

Division of Training and Manpower Development

Curriculum Development--The OSH field is broad-based, multidisciplined, and highly dynamic as research and technology better characterize workplace hazards and design new prevention and control strategies. It is essential that the OSH educational systems keep pace with these new skill and knowledge requirements, adapting their academic curricula and expanding the continuing education offerings to reflect the new technology.

Educational Resource Centers--Currently, 12 Educational Resource Centers are strategically located to respond to the educational needs and workforce requirements of each of the ten HEW Regions. FY 80 budget is expected to provide for funding of one additional center. The centers have made significant progress under a program management scheme that reflects a balance of providing technical assistance and monitoring program plans and outputs.

Continuing Education--The Division conducts training courses for physicians, nurses, industrial hygienists, safety personnel, and others who have responsibilities for worker health and safety.

Educational Resource Development--The OSH workforce need/demand occurs in all sizes and types of industry, in government, and in other organizations. The discipline requirements include the four core professions (occupational physician, occupational health nurses, industrial hygienist, and occupational safety professional) as well as other related professionals and paraprofessionals.

Training project grants will continue to be used to supplement the workforce supply produced by the ERCs. Project grants in nursing and safety are extremely important since the ERCs are still generally nominal in these disciplines. The project grant mechanism lends well to the funding of minority institutions, to undergraduate OSH generalist programs, and to prebaccalaureate associate degree, certificate, and nurse practitioner programs. As the ERCs begin to reach out into their respective regions and make their outreach programs more effective, it is expected that the training project grant mechanism will be utilized to fund promising ERC protege schools. The Division also will continue to promote the OSH field as a career option to high school students and first and second year college students seeking a career goal. Liaison will be maintained with the OSHA and MSHA training and education offices and the BOM training academy.

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY	PLANNED	COMPLETION				M F A E U C C N T H D MY			RESOURCES				
			I	C	1Q	2Q	3Q	4Q	FF	TF	\$1000	\$1000		
*****WORKFORCE DEVELOPMENT*****													k 3856	
													k 3857	
													k 3858	
DIVISION OF TRAINING AND MANPOWER DEVELOPMENT													H 3859	
													H 3860	
													H 3861	
1. Continuing Education (VUI-210-792)(9/150/364)(100/VUI-210-792)	71	C						p	b	a	4	250.0	330.0	Hakkk 3863
.1 Maintain Institute's direct training program														Hakkk 3864
.a Present Industrial Hygiene programs			3	8	14	18								Hakkk 3865
.b Present Occupational Safety programs			2	5	6	8								Hakkk 3866
.c Present Legal Aspects course				1		2								Hakkk 3867
.2 Provide Training to other NIOSH Divisions														Hakkk 3868
.a Present course on Determination and Rejection of Outlier Data to NIOSH Research Divisions					o									Hakkk 3869
.b Present course on Pulmonary Function Testing to NIOSH medical surveillance personnel					o	o								Hakkk 3870
.c Provide industrial hygiene training to NOHS Survey personnel						o								Hakkk 3871
.d Provide industrial hygiene training to DSHEFS physicians							o							Hakkk 3872
.3 Provide training to outside organizations														Hakkk 3873
.a Present course to state agencies (Oregon; Washington)					o									Hakkk 3874
.b Present courses to Federal agencies and labor unions, as requested. (e.g. OSHA, MSHA, UAW, AFL-CIO)							o							Hakkk 3875
.4 Administer the Pulmonary Function Testing Training Course Approval/Certification Program (as required by Cotton Dust Standard)			o	o	o	o								Hakkk 3876
.5 Provide training support to foreign governments							o							Hakkk 3877
														Hakkk 3878
														Hakkk 3879
														Hakkk 3880
														Hakkk 3881
														Hakkk 3882
														Hakkk 3883
														Hakkk 3884
														Hakkk 3885
														Hakkk 3886

PROJECT OBJECTIVE DESCRIPTION - MILESTONES

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY		PLANNED COMPLETION				M F A E U C C N T H D			RESOURCES		FF	TF		
	I	C	1Q	2Q	3Q	4Q	MY	\$1000	\$1000						
2. Curriculum Development (VUH-211-782)(11/490/752)(100/VUH-211-782)	76	C					q b a	11.7	821.0	1053.				HbkkN	3889
														HbkkN	3890
														HbkkN	3891
.1 Develop respirator training program for firefighters and other respirator user groups (joint with DSR, IAFF, AFL-CIO, USFA, NFPCA, IAFC, MSHA, BOM, ASEA)								o						HbkkN	3892
														HbkkN	3893
.2 Develop asbestos training program for school insulation demolition workers (joint with OSHA and EPA)					o									HbkkN	3894
														HbkkN	3895
.3 Develop academic and continuing education training modules for key technology transfer areas														HbkkN	3896
.a Control Technology (joint with DPSE)						1								HbkkN	3897
.b Survey Techniques (joint with DSHEFS)							1							HbkkN	3898
.4 Develop vocational/industrial arts occupational safety and health program for secondary school teachers (joint with OSHA)						o								HbkkN	3899
														HbkkN	3900
.5 Develop "Manual on Safety and Health Hazards in Secondary Science Laboratory Experiments" for Laboratory Occupational Safety and Health Program for high school/college science teachers					o									HbkkN	3901
														HbkkN	3902
.6 Develop worker training programs for high-risk industries (e.g. roofing: mining)						o								HbkkN	3903
														HbkkN	3904
.7 Develop advanced curriculum in safety (e.g. systems safety approach) (joint with DSR)						o								HbkkN	3905
														HbkkN	3906
.8 Provide technical assistance to ERC's and training project grantees to establish on-site media support, audio-visual production capability, and mutual interchange of training materials.			3	6	9	12								HbkkN	3907
														HbkkN	3908
.9 Provide educational materials to NIOSH Regional Offices to support their technical assistance to employer/employee groups					1		2							HbkkN	3909
														HbkkN	3910
.10 Develop occupational safety and health training syllabus														HbkkN	3911
.a Submit RFC to OAMS														HbkkN	3912
.b Award contract (complete in FY 81)					o									HbkkN	3913
.11 Revise existing training materials and develop new text on pulmonary function testing					2		3							HbkkN	3914
														HbkkN	3915
.12 Develop and produce 2 audio visual packages on Occupational Dermatitis (cooperative with AAD, AAOM)						1	2							HbkkN	3916
														HbkkN	3917
														HbkkN	3918
														HbkkN	3919
														HbkkN	3920
														HbkkN	3921
														HbkkN	3922
														HbkkN	3923
														HbkkN	3924
														HbkkN	3925
														HbkkN	3926

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY	PLANNED COMPLETION				M F			RESOURCES		Hckkk	3929			
		I	C	1Q	2Q	3Q	4Q	A	E	U			\$1000	\$1000	
								C	C	N					
3. Educational Resource Development (VUE-212-772)(14.8/9505/9798)(100/VUE-212-772)	79	C						r	e	a	4	12650	12730	Hckkk	3930
.1 Administer ERC grant program (Joint with GMO, OAMS)														Hckkk	3931
.a Conduct Monthly ERC Managers Meetings			3	6	9	12								Hckkk	3932
.b Conduct NIOSH Directors Meetings with ERC Directors			1			2								Hckkk	3933
.c Review, negotiate and award new, continuation, and renewal ERC applications						12								Hckkk	3934
.2 Evaluate ERC Program (Joint with OPPE)														Hckkk	3935
.a Determine evaluation criteria and method				o										Hckkk	3936
.b Prepare evaluation report					o									Hckkk	3937
.3 Develop mining skills training capability in one or two ERC's (Joint with DRDS)						1	2							Hckkk	3938
.4 Provide technical assistance/consultation to ERC academic, continuing education, and outreach programs														Hckkk	3939
.a Coordinate ERC Continuing Education Programs			o	o	o	o								Hckkk	3940
.b Provide on-site consultation via outside peer-level review team				4	8	12								Hckkk	3941
.5 Administer training project grant program (Joint with GMO, OAMS)														Hckkk	3942
.a Provide technical assistance, consultation and review to existing grantees			5	10	15	20								Hckkk	3943
.b Negotiate and award new, continuation and renewal grant applications					2	22	26							Hckkk	3944
.6 Produce and disseminate occupational safety and health career information (Joint with DTS)														Hckkk	3945
.a Revised edition of OSH Career Opportunities brochure						o								Hckkk	3946
.b Revised edition of Directory of Academic Programs							o							Hckkk	3947
.7 Prepare survey report of current and projected graduates from OSH academic degree programs						o								Hckkk	3948
.8 Explore feasibility and mechanisms for inclusion of OSH disciplines in census-taking and other surveys conducted by the Bureau of the Census, Department of Commerce (joint with DOC)			o											Hckkk	3949
.9 Sponsor workshop on occupational safety education (joint with DSR)						o								Hckkk	3950
.10 Provide technical assistance/consultation to colleges and universities in the initial program development stages			1	2	3	4								Hckkk	3951
.11 Investigate methods to assess OSH manpower requirements (need vs. demand) and to stimulate the job market (joint with OPPE and DBBS)						o								Hckkk	3952
.12 Establish contact and maintain liaison with professional societies, boards of certification, academics, and other licensure/accreditation agencies			1	2	3	4								Hckkk	3953
														Hckkk	3954
														Hckkk	3955
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														Hckkk	3970
														Hckkk	3971
														Hckkk	3972
														Hckkk	3973

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY	PLANNED COMPLETION				M F A E U C C N T H D MY			RESOURCES		HHkkk				
		I	C	1Q	2Q	3Q	4Q	4	50	130			FF	TF	
4. Program Management and Support	76	c						r	e	a	4	50	130	HHkkk	3976
.1 Provide overall administration of Division Program and Projects and submit progress reports quarterly to OPPE			o	o	o	o								HHkkk	3977
.2 Direct, manage, and evaluate Division senior staff			o	o	o	o								HHkkk	3978
.3 Represent DTMD in Institute Strategic Planning, Forward Planning, and Fiscal Year Program Planning Activities				o	o	o								HHkkk	3979
.4 Provide advice, consultation, and technical support to Institute programs and staff (joint with Offices/ Divisions and Regional Consultants)			o	o	o	o								HHkkk	3980
.5 Maintain liaison and coordinate Division efforts with other government agencies, (OSHA, MSHA, BOM, EPA, HRA) professional and educational institutions, and other organizations with OSH responsibilities and interests.			o	o	o	o								HHkkk	3981
.6 Review Division staffing and staff development plans with EEO Officer and Professional Development Office. Recruit female or minority candidates for at least 50% of vacancies in grade GS-7 and above or any Commissioned Officer recruitment.				o		o								HHkkk	3982
.7 Hold all-hands Division staff meeting (at least once with NIOSH Director or member of his staff)			1	2	3	4								HHkkk	3983
.8 Submit Report of Activities for "Training and Human Resource Development" for Presidents Annual Report(s)						o								HHkkk	3984
														HHkkk	3985
														HHkkk	3986
														HHkkk	3987
														HHkkk	3988
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														HHkkk	3997
														HHkkk	3998
														HHkkk	3999
														HHkkk	4000
														HHkkk	4001

Division of Respiratory Disease Studies

A major effort in mining is anticipated by DRDS this year. Many of our projects are mandated by law, including the administration of the mandatory X-ray surveillance program for coal miners, pathologic examinations for deceased coal miners, the response to request for health hazard evaluations in the mining industry or health hazards evaluation requests involving occupational respiratory problems, and an effort to determine the direction of the NIOSH surveillance program, targeting the critical areas in the mining industry for immediate attention. Continuing projects determine the prevalence of coal workers' pneumoconiosis, characterization of the mining environment of dieselized coal mines, epidemiological and worker response to total dust in new and ex-miners, the use of X-ray and pathological techniques to study pneumoconiosis, and a major study of cement workers from both mortality and an environmental standpoint. Laboratory research of materials affecting miners include the reactivity of heavy metals with lung cells, interferon synthesis of diesel and metal particulates, reactivity of fibers and nonfibers and the role they play in fibrogenesis, and the development of an image analysis for chest X-rays.

Division of Biomedical and Behavioral Science

Objectives of mining research are to apply research capabilities of DBBS to study of the health of miners, particularly in the areas of segmental and whole-body vibration and noise, and the safety and health of commercial divers. Outputs are expected to be recommendations for tool design and use, and a data base for diving.

Division of Surveillance, Hazard Evaluations, and Field Studies

Following discussions with DRDS, and taking into consideration DSHEF needs for manpower for general industry research, health hazard evaluations, surveillance, and industry-side study efforts, DSHEFS has concluded that its mining program should remain relatively modest. One ongoing study will be transferred to Cincinnati from Salt Lake City; one study that has previously been funded by EPA and three new mining projects are proposed.

Division of Physical Sciences and Engineering

Methods will be developed to assess diesel emissions to aid in determining diesel use in underground mining. Continued support will be given to MSHA in establishing certification procedures for coal mine dust samplers. The role of NIOSH in control technology assessment will be established with the BOM. It is anticipated that it will take 2 years to have a minimum staff experienced and knowledgeable in mining technology necessary to support NIOSH needs. This will be acquired through close collaboration and participation in BOM activities.

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY PLANNED COMPLETION				M F A E U C C N			RESOURCES					
	I	C	1Q	2Q	3Q	4Q	T	H	D		MY	FF	TF
												\$1000	\$1000
*****METAL AND NONMETAL MINING RESEARCH*****													m 4004
													m 4005
													m 4006
DIVISION OF RESPIRATORY DISEASE STUDIES													A 4007
													A 4008
													A 4009
1. IH & Mortality Study of Crushed Stone Workers (VKL-M21-915) (1.7/50.0/108.8) (100/VKL-C21-194)	79	81					i	g	d	3.0	43.2	110.8	Aamcf 4011
.1 Complete cohort building				o									Aamcf 4012
.2 Complete searches for death certificates and case locations									o				Aamcf 4013
.3 Complete IH surveys (1Q81)													Aamcf 4014
.4 Complete data analysis (3Q81)													Aamcf 4015
.5 Complete final report and submit abstract to Director, NIOSH (4Q81)													Aamcf 4016
													Aamcf 4017
													Aamcf 4018
													Aamcf 4019
													Aamcf 4020
													Aamcf 4021
2. Respiratory Questionnaire Design and Validation (VKL-M50-257) (1.5/15.0/42.5) (100/VKL-M50-257)	80	81					s	c	a	0.5	2.3	13.6	Aamdtt 4024
.1 Develop questionnaire and design trials													Aamdtt 4025
.2 Arrange locations to test questionnaire									o				Aamdtt 4026
.3 Submit requests for HSRB/FRA clearances													Aamdtt 4027
.4 Visit locations and perform trials (3Q81)													Aamdtt 4028
.5 Analyze and report results (4Q81)													Aamdtt 4029
													Aamdtt 4030
													Aamdtt 4031
													Aamdtt 4032
3. Pathology Standards for Asbestos Induced Res. Disease (*) (VKC-R21-246) (0.5/2.5/15.0) (100/VKC-R21-246)	79	81					e	b	d	0.5	2.7	14.1	Admin 4035
.1 Review monthly progress reports				o	o	o	o						Admin 4036
.2 Review assessment of major collections of pathological material													Admin 4037
.3 Submit final report to Director, NIOSH (3Q81)													Admin 4038
													Admin 4039
													Admin 4040
													Admin 4041
													Admin 4042
4. Diesel & Metal Particulates on Interferon Synthesis (VKC-R21-149) (100/VKC-R21-149)	78	80					n	c	d	1.7	21.9	60.0	Admmt 4045
.1 Complete investigation on amelioration of diesel particles on interferon inhibition using PVPNO polymer													Admmt 4046
.2 Complete determination of neurominidase-sialic interactions with metals and/or diesel particles in relation to interferon synthesis													Admmt 4047
.3 Complete final report and submit Abstract to Director, NIOSH									o				Admmt 4048
													Admmt 4049
													Admmt 4050
													Admmt 4051
													Admmt 4052
													Admmt 4053
													Admmt 4054
													Admmt 4055

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY		PLANNED COMPLETION				M F A E U C C N			RESOURCES			
	I	C	1Q	2Q	3Q	4Q	T	H	D	MY	FF		TF
											\$1000		\$1000
5. In Vivo Effects of Metals on Lung Lipid Peroxidation (*) (VKC-R21-243) (1 5/25.8/60.0) (100/VKC-R21-243)	79	81					k	c	a	1.0	19.8	42.6	Admnf 4058
.1 Complete experiments dealing with effects of exposure to metals on levels of lipid peroxidation in the lung			o										Admnf 4059
.2 Complete experiments dealing with normal levels of the protective enzymes, glutathione peroxidase and glutathione reductase in the lung				o									Admnf 4060
.3 Complete experiments dealing with effects of exposure to metals on glutathione peroxidase and glutathione reductase in the lung					o								Admnf 4061
.4 Complete experiments dealing with normal levels of the protective enzymes, glucose-6-phosphate dehydrogenase (G6PDH) and superoxide dismutase (s.o.d.) in the lung						o							Admnf 4062
.5 Complete experiments dealing with the effects of exposure to metals on G6PDH and s.o.d. levels in the lung (1Q81)													Admnf 4063
.6 Complete studies dealing with effects of exposure to selected combinations of metals on lipid peroxidation in the lung (2Q81)													Admnf 4064
.7 Complete studies dealing with effects of exposure to selected combinations of metals on the protective enzymes in the lung (3Q81)													Admnf 4065
.8 Submit report to Director, NIOSH (4Q81)													Admnf 4066
6. Aluminum, Chromium and Iron Toxicity to Lung Cells (*) (VKC-R21-167) (100/VKC-R21-167)	78	80					k	c	a	1.5	19.8	54.0	Admnf 4067
.1 Complete experiments dealing with the toxicity of aluminum to lung cells			o										Admnf 4068
.2 Complete experiments dealing with the toxicity of chromium to lung cells				o									Admnf 4069
.3 Complete final report and submit abstract to Director, NIOSH						o							Admnf 4070
7. Mortality Study of Diesel Engine Mechanics (VKL-R22-228) (0.5/9.0/21.0) (100/VKL-R22-228)	79	81					h	b	b	0.5	8.6	20.0	Admnf 4071
.1 Determine remaining 20% of cohort				o									Admnf 4072
.2 Complete searches for death certificates and hard-to-locate cases					o								Admnf 4073
.2 Complete coding and data analysis (3Q81)													Admnf 4074
.3 Complete final report and submit abstract to Director, NIOSH (4Q81)													Admnf 4075
													Admnf 4076
													Admnf 4077
													Admnf 4078
													Admnf 4079
													Admnf 4080
													Admnf 4081
													Admnt 4082
													Admnt 4085
													Admnt 4086
													Admnt 4087
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													Admnt 4089
													Admnt 4090
													Admnt 4091
													Admnt 4092
													Admnt 4093
													Aamt i 4096
													Aamt i 4097
													Aamt i 4098
													Aamt i 4099
													Aamt i 4100
													Aamt i 4101
													Aamt i 4102
													Aamt i 4103
													Aamt i 4104
													Aamt i 4105

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY		PLANNED COMPLETION				M F			RESOURCES				
	I	C	1Q	2Q	3Q	4Q	A	E	U	FF	TF			
							C	C	N					
8. Morbidity & IH Study of Cement Workers (VKH-R22-193) (1.5/17.8/52.0) (100/VKH-R22-193)	78	81					i	c	d	6.0	67.0	222.0	Acmtf	4108
.1 Study five plants per quarter, starting with second quarter				5	10	15							Acmtf	4109
.2 Complete data analysis (2Q81)													Acmtf	4110
.3 Complete final report and submit abstract to Director, NIOSH (4Q81)													Acmtf	4111
													Acmtf	4112
													Acmtf	4113
													Acmtf	4114
													Acmtf	4115
													Acmtf	4116
9. Cement Mortality Study (VKL-M22-256) (0.7/23.0/40.0) (0.7/23.0/40.0) (100/VKL-M22-256)	80	82					h	b	d	1.0	46.2	69.0	Aamt f	4119
.1 Initiate plant visits - microfilm records				o									Aamt f	4120
.2 Contract for transcribing, coding, and keypunching:													Aamt f	4121
a. Initiate co-ordination with OD, NIOSH				o									Aamt f	4122
.3 Contractor begin transcribe, code, keypunch data									o				Aamt f	4123
.4 Check completeness of files (2Q81)													Aamt f	4124
.5 Master file completed (2Q81)													Aamt f	4125
.6 Vital status determined from PM, SS and IRS. Death certificates obtained and coded (2Q81) (3Q81) (4Q81) (1Q82) (2Q82)													Aamt f	4126
.7 Complete analysis (4Q82)													Aamt f	4127
.8 Complete final report and submit abstract to Director, NIOSH (4Q82)													Aamt f	4128
													Aamt f	4129
													Aamt f	4130
													Aamt f	4131
													Aamt f	4132
													Aamt f	4133
													Aamt f	4134
													Aamt f	4135
													B	4137
													B	4138
													B	4139

DIVISION OF BIOMEDICAL AND BEHAVIORAL SCIENCE

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY				M F				RESOURCES				
	I	C	PLANNED COMPLETION		A E U		C C N	T H D	MY	\$1000			\$1000
			1Q	2Q	3Q	4Q							
10. Effects of Segmental Vibration and Noise on Miners (VOG-G21-328)(3.1/220/303.9)(100/VOG-M21-787)	7	32						g c d	3.7	220.0	303.9	Bemqi	4141
												Bemqi	4142
												Bemqi	4143
.1 Uranium Miners Study												Bemqi	4144
a. Conduct worksite study (4Q79)												Bemqi	4145
b. Begin data analysis uranium miners study			o									Bemqi	4146
c. Complete data analysis uranium miners study					o							Bemqi	4147
d. Submit uranium mining study abstract to Director, NIOSH						o						Bemqi	4148
e. Consult Information Office							o					Bemqi	4149
f. Publish report on uranium miners study								o				Bemqi	4150
.2 Hard-rock Mining Study												Bemqi	4151
a. Submit OMB study renewal and modifications on hard-rock mining study			o									Bemqi	4152
b. Begin study of hard-rock miners					o							Bemqi	4153
c. Begin data collection on hard-rock miners							o					Bemqi	4154
d. Begin data analysis on hard-rock miners								o				Bemqi	4155
e. Consult Information Office									o			Bemqi	4156
f. Initiate processing of medical data (Bureau of Prisons, SWORCC)			o									Bemqi	4157
g. Complete data analysis on hard-rock miners study (2Q81)												Bemqi	4158
h. Submit final project report to Director, DBBS (3Q81)												Bemqi	4159
i. Submit abstract of final report to Director, NIOSH (3Q81)												Bemqi	4160
.3 Submit progress report to Director, DBBS (1Q,2Q81)			o	o	o	o						Bemqi	4161
												Bemqi	4162
												Bemqi	4163
												Bemqi	4164
11. Factors Affecting Fingertip Acuity (100/VOK-M24-719)	80	80						m c d	0.3	1.0	8.5	Bbmhi	4164
												Bbmhi	4167
.1 Obtain HSRB clearance			o									Bbmhi	4168
.2 Begin construction of hand-arm support with tested finger pressure device			o									Bbmhi	4169
.3 Submit progress report to Director, DBBS			o	o	o							Bbmhi	4170
.4 Consult Information Office			o									Bbmhi	4171
.5 Complete construction of hand-arm support with tested finger pressure device				o								Bbmhi	4172
.6 Initiate testing of arm cooling, heating device for fingertip temperature					o							Bbmhi	4173
.7 Complete testing of arm cooling, heating device for fingertip temperature					o							Bbmhi	4174
.8 Initiate acuity and sensitivity testing						o						Bbmhi	4175
.9 Complete acuity and sensitivity testing							o					Bbmhi	4176
.10 Submit final project report to Director, DBBS								o				Bbmhi	4177
.11 Submit abstract of final report to Director, NIOSH									o			Bbmhi	4178
												Bbmhi	4179
												Bbmhi	4180
												Bbmhi	4181
												Bbmhi	4182
												Bbmhi	4183
												Bbmhi	4184
												Bbmhi	4185

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY		PLANNED COMPLETION				M F A E U C C N			RESOURCES		Bcmtn		
	I	C	1Q	2Q	3Q	4Q	T	H	D	MY	\$1000			\$1000
12. Pathophysiological Studies of the Pulmonary System (V00-C24-283)(1.3/17.0/50.0)(1.3/17.0/50.0)(100/V00-C24-283)	79	82					k	c	b	1.3	40.0	72.4	Bcmtn	4188
.1 Consult Information Office			o										Bcmtn	4189
.2 Hazard Data Sheet (H.D.S.)													Bcmtn	4190
a. Develop H.D.S.			o	o	o	o							Bcmtn	4191
b. Submit H.S.D. to Director, DBBS			o	o	o	o							Bcmtn	4192
c. Submit H.D.S. to project staff			o	o	o	o							Bcmtn	4193
.3 Complete Isolated Perfused Lung (IPL) studies on:													Bcmtn	4194
a. Copper (II) Oxide			o										Bcmtn	4195
b. Copper (II) Sulfide				o									Bcmtn	4196
c. Pb smelter dust No. 1				o									Bcmtn	4197
d. Pb smelter dust No. 2					o								Bcmtn	4198
e. Cu smelter dust No. 1						o							Bcmtn	4199
f. Cu smelter dust No. 2							o						Bcmtn	4200
.4 Submit IPL manuscript for publication			o		o								Bcmtn	4201
.5 Initiate Aluminum subchronic inhalation studies													Bcmtn	4202
a. AlF3			o										Bcmtn	4203
b. AlCl3					o								Bcmtn	4204
.6 Complete serial sacrifices of rats exposed to AlF3				o									Bcmtn	4205
.7 Complete serial sacrifices of rats exposed to AlCl3						o							Bcmtn	4206
.8 Review reports on biochemical analyses from Al-exposed rats						o	o						Bcmtn	4207
.9 Submit progress report to Director, DBBS (1Q,2Q,3Q,4Q,81)(1Q,2Q,3Q,82)			o	o	o	o							Bcmtn	4208
.10 Complete studies on selected mining dusts (4Q81)													Bcmtn	4209
.11 Submit manuscript for publication in scientific journals (2Q81)(4Q81)(4Q82)													Bcmtn	4210
.12 Continue studies on fibrogenic Al compounds (1Q81)													Bcmtn	4211
.13 Complete studies on coated particulates (4Q82)													Bcmtn	4212
.14 Submit final report to Director, DBBS (4Q82)													Bcmtn	4213
.15 Submit abstract of final report to Director, NIOSH (4Q82)													Bcmtn	4214
													Bcmtn	4215
													Bcmtn	4216
													Bcmtn	4217
													Bcmtn	4218
													Bcmtn	4219

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY		PLANNED COMPLETION				M F A E U C C N			RESOURCES				
	I	C	1Q	2Q	3Q	4Q	T	H	D	MY	FF TF			
											\$1000	\$1000		
13. Pulmonary Hypersensitivity-group 8 Metals (V00-G24-285)(0.1/0.5/3.0)(100/V00-G24-285)	79	81					k	b	d	1.9	23.9	68.5	Bcmtn	4222
.1 Complete peer review (1Q79)													Bcmtn	4223
.2 Submit final protocol to Director, DBBS (1Q79)													Bcmtn	4224
.3 Initiate sensitization exposures (Pt) (4Q79)													Bcmtn	4225
.4 Consult Information Office													Bcmtn	4226
.5 Complete sensitization exposures (Pt)			o										Bcmtn	4227
.6 Complete bronchoprovocation challenge and pulmonary reevaluations (Pt)			o	o									Bcmtn	4228
.7 Evaluate immunotoxicologic responses (Pt)				o									Bcmtn	4229
.8 Initiate sensitization exposures (Pd)					o								Bcmtn	4230
.9 Complete sensitization exposures (Pd)						o							Bcmtn	4231
.10 Complete bronchoprovocation challenge and pulmonary reevaluations (Pd)							o						Bcmtn	4232
.11 Evaluate immunotoxicologic responses (Pd)								o					Bcmtn	4233
.12 Submit progress report to Director, DBBS			o	o	o	o							Bcmtn	4234
.13 Complete draft final report (1Q81)													Bcmtn	4235
.14 Submit final project report to Director, DBBS (1Q81)													Bcmtn	4236
.15 Submit abstract of final report to Dir., NIOSH C4Q80D(1Q81)													Bcmtn	4237
DIVISION OF SURVEILLANCE, HAZARD EVALUATIONS AND FIELD STUDIES														
14. Uranium Miner and Millers Study (0.3/3.0/50.0) (100/VMH-M21-637)	75	81					g	c	d	0.3	92	99	C	4242
.1 Complete review of outputs to date and conduct meeting with MSHA, et al. to discuss effects on standard setting activities.			o										C	4244
.2 Complete vital status follow-up of miller cohort.					o								C	4245
.3 Complete industrial hygiene characterization miller cohort.						o							C	4246
.4 Complete miner and miller final reports and transmit abstracts to Director, NIOSH and copies to DTS (4Q81).								o					Cbmcg	4248
													Cbmcg	4249
													Cbmcg	4250
													Cbmcg	4251
													Cbmcg	4252
													Cbmcg	4253
													Cbmcg	4254
													Cbmcg	4255
													Cbmcg	4256
													Cbmcg	4257
													Cbmcg	4258

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY PLANNED COMPLETION				M F A E U C C N T H D			RESOURCES				
	I	C	1Q	2Q	3Q	4Q	MY	FF	TF			
								\$1000	\$1000			
15. Medical and Industrial Hygiene Study of Workers Exposed to Manganese (1.4/19.0/50.0) (100/VMH-M21-660) .1 Complete final peer review .2 Submit RFA package. .3 Initiate medical and industrial hygiene studies. .4 Complete preliminary data analyses. .5 Complete final report and transmit abstract to Director, NIOSH and copy to DTS (3Q81).	79	81					i c d	1.4	50	81	Cbmg i	4261
			o	o							Cbmg i	4262
				o							Cbmg i	4263
											Cbmg i	4264
											Cbmg i	4265
											Cbmg i	4266
											Cbmg i	4267
											Cbmg i	4268
											Cbmg i	4269
											Cbmg i	4270
											Cbmg i	4271
											Cbmg i	4272
16. Mortality Study of Potash Miners (1.0/53.0/75.0) (100/VMH-M22-664) .1 Complete determination of past diesel exposures. .2 Determine if feasible to initiate study. .3 Initiate data collection if study feasible. .4 Complete final report and transmit abstract to Director, NIOSH and copy to DTS (4Q81).	80	81					g c d	1.4	60	91	Cbmc i	4275
											Cbmc i	4276
											Cbmc i	4277
											Cbmc i	4278
											Cbmc i	4279
											Cbmc i	4280
											Cbmc i	4281
											Cbmc i	4282
											Cbmc i	4283
17. Mortality and Industrial Hygiene Study of Workers Exposed to Selenium (1.0/51.0/75.0) (1.0/51.0/75.0) (1.0/51.0/75.0) (100/VMH-M21-666) .1 Complete peer and tripartite reviews. .2 Initiate walk-through surveys. .3 Complete walk-through surveys. .4 Complete detailed industrial hygiene surveys (4Q81). .5 Complete draft final report (4Q82). .6 Complete final report and transmit abstract to Director, NIOSH and copy to DTS (2Q83).	80	83					i c d	0.7	30	46	Cbmc i	4286
											Cbmc i	4287
											Cbmc i	4288
											Cbmc i	4289
											Cbmc i	4290
											Cbmc i	4291
											Cbmc i	4292
											Cbmc i	4293
											Cbmc i	4294
											Cbmc i	4295
											Cbmc i	4296
											Cbmc i	4297
											Cbmc i	4298
18. Mortality and Industrial Hygiene Study of Phosphate Workers (0.4/2.0/10.0) (100/VMH-M22-668) .1 Complete vital status follow-up. .2 Complete coding of causes of death. .3 Complete data analysis. .4 Complete final report and transmit abstract to Director, NIOSH and copy to DTS (1Q81).	80	81					i c d	1.9	50	113	Cbmc i	4301
											Cbmc i	4302
											Cbmc i	4303
											Cbmc i	4304
											Cbmc i	4305
											Cbmc i	4306
											Cbmc i	4307
											Cbmc i	4308
											Cbmc i	4309

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY		PLANNED COMPLETION				M F		RESOURCES					
	I	C	1Q	2Q	3Q	4Q	A	E	FF	TF				
							C	C	N	D			MY	\$1000
19. Disability Conditions in the Workplace - Phase III (1.0/28.0/50.0) (100/VMO-M11-575)	80	81					w	c	d	3.7	100	183	Ccmwi	4312
.1 Complete plan for Trend Report on 1959-62 vs. 1969-72 White Males.			o										Ccmwi	4313
.2 Complete Phase II report and transmit abstract to Director, NIOSH and copy to DTS.				o									Ccmwi	4314
.3 Complete report on feasibility of file linkage.					o								Ccmwi	4315
.4 Complete Phase III protocol.						o							Ccmwi	4316
.5 Complete compilation of various tabulations from SSA data (3 & 4Q81).							o						Ccmwi	4317
													Ccmwi	4318
													Ccmwi	4319
													Ccmwi	4320
													Ccmwi	4321
													Ccmwi	4322
													Ccmwi	4323

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY		PLANNED COMPLETION				M F		RESOURCES			
	I	C	1Q	2Q	3Q	4Q	A E U		FF	TF		
							C	C N				
*****PERSONAL PROTECTIVE EQUIPMENT RESEARCH*****												p 4326
												p 4327
												p 4328
DIVISION OF PHYSICAL SCIENCES AND ENGINEERING												D 4329
												D 4330
												D 4331
1. Respirator and Clothing Research for Carcinogens (VQC-C31-433)(100/VQC-C31-433)	77	80					v d e	0.2	3.9	8.7		DapcN 4333
.1 Transmit abstract of final report to Director, NIOSH (copy of report to DTS)							o					DapcN 4334
												DapcN 4335
												DapcN 4336
												DapcN 4337
												DapcN 4338
2. Development of Improved Respirator Equipment (VQC-R31-424)(100/VQC-R31-424)	78	80					v a a	0.1	4.1	6.5		DapiN 4341
.1 Evaluate and Develop SCBA Test Methods												DapiN 4342
a. Transmit abstract of final report to Director, NIOSH (copy of report to DTS)							o					DapiN 4343
												DapiN 4344
												DapiN 4345
												DapiN 4346
												DapiN 4347
DIVISION OF SAFETY RESEARCH												E 4349
												E 4350
												E 4351
3. 11. Respirator Testing, TCB (VLI-313-815)	72	80					v b a	9.6	120.0	340.8		EdpmN 4353
.1 Issue respirator approvals and extensions of approvals			20	40	60	80						EdpmN 4354
.2 Test off-shelf samples of approved respirators			10	20	30	40						EdpmN 4355
.3 Specific lead dust penetration model												EdpmN 4356
a. Construct chamber			o									EdpmN 4357
b. Set up test procedure				o								EdpmN 4358
c. Complete testing					o							EdpmN 4359
d. Receive final report, abstract to Director, NIOSH						o						EdpmN 4360
												EdpmN 4361
												EdpmN 4362
												EdpmN 4363

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY		PLANNED COMPLETION				M F A E U C C N			RESOURCES				
	I	C	1Q	2Q	3Q	4Q	T	H	D	MY	FF			TF
			\$1000	\$1000	\$1000	\$1000	\$1000	\$1000	\$1000	\$1000	\$1000			\$1000
4. 12. Safety Equipment, TCB (VLI/313-816)	72	80					v	b	a	9.4	148.0	354.6	EdpmN	4366
.1 Complete short-term research/quick response to requests from regulatory agencies and others (appx 1 MY)			o	o	o	o							EdpmN	4367
.2 Complete market survey of safety footwear													EdpmN	4368
a. Order test specimens				o									EdpmN	4369
b. Begin testing					o								EdpmN	4370
c. Test program complete						o							EdpmN	4371
d. Final report completed, abstract to Director, NIOSH (2Q91)							o						EdpmN	4372
.3 Market survey of eyecup cover goggles													EdpmN	4373
a. Order test specimens			o										EdpmN	4374
b. Test program complete								o					EdpmN	4375
c. Final report completed, abstract to Director, NIOSH (3Q81)									o				EdpmN	4376
.4 Develop performance criteria and test methods for puncture resistant footwear													EdpmN	4377
a. Develop test system (4Q79)			o										EdpmN	4378
b. Test procedure complete													EdpmN	4379
c. Testing program complete				o									EdpmN	4380
d. Final report completed									o				EdpmN	4381
.5 Market survey of currently available industrial safety helmets													EdpmN	4382
a. Complete testing													EdpmN	4383
b. Data tabulated and analyzed, report abstract to Director, NIOSH				o									EdpmN	4384
.6 Develop performance criteria and test methods for ballistic impact test													EdpmN	4385
a. Develop test system						o							EdpmN	4386
b. Test procedure complete									o				EdpmN	4387
c. Testing program complete (1Q81)													EdpmN	4388
d. Final report completed, abstract to Director, NIOSH (2Q81)													EdpmN	4389
.7 Report of analysis of BLS PPE work injury data									o				EdpmN	4390
.8 Contract test validation abstract to Director, DSR									o				EdpmN	4391
.9 Contract dynamic helmet test system abstract to Director, DSR													EdpmN	4392
.10 Contract S I head injury threshold--abstract to Director, DSR (2Q82)													EdpmN	4393
.11 Journal Publication. Mathematical Models of Head Injury: A Ranking Experiment													EdpmN	4394
b. Final draft to DSR Director			o										EdpmN	4395
c. Submit to Journal				o									EdpmN	4396
.12 Complete development of draft of eye and face protective equipment interim standard.									o				EdpmN	4397
													EdpmN	4398
													EdpmN	4399
													EdpmN	4400
													EdpmN	4401
													EdpmN	4402
													EdpmN	4403
													EdpmN	4404
													EdpmN	4405
													EdpmN	4406
													EdpmN	4407
													EdpmN	4408
													EdpmN	4409
													EdpmN	4410

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY PLANNED COMPLETION				M F A E U C C N			RESOURCES					
	I	C	1Q	2Q	3Q	4Q	T	H	D	MY	FF	TF	
											\$1000	\$1000	
*****PHYSICAL AGENTS RESEARCH*****												q 4413	
												q 4414	
												q 4415	
DIVISION OF BIOMEDICAL AND BEHAVIORAL SCIENCE												B 4416	
												B 4417	
												B 4418	
1. Noise/Chemical Agents Effects on Hearing and Behavior (.4/139/149)(0.4/2.5/12.5)(100/VOG-G24-790)	80	82					k	a	a	0.4	139.0	149.0	Beqbz 4420
.1 Complete draft RFP			o										Beqbz 4421
.2 Complete peer review of RFP				o									Beqbz 4422
.3 Submit RFP to Director, DBBS				o									Beqbz 4423
.4 Submit contractor's progress report to Dir., DBBS (1Q,2Q,3Q82)			o	o	o	o							Beqbz 4424
.5 Award contract for 3-Phase Study						o							Beqbz 4425
.6 Initiate Phase I and II (1Q81)													Beqbz 4426
.7 Complete study of effects of aspirin (Phase I) (4Q81)													Beqbz 4427
.8 Complete study of effects of Pb (Phase II)(4Q81)													Beqbz 4428
.9 Complete study of effects of noise alone, noise/aspirin, and noise/Pb (Phase III)(2Q82)													Beqbz 4429
.10 Receive contractor's Final Report (3Q82)													Beqbz 4430
.11 Consult Information Office (3Q82)													Beqbz 4431
.12 Submit final report to Director, DBBS (4Q82)													Beqbz 4432
.13 Submit abstract to Director, NIOSH (4Q82)													Beqbz 4433
													Beqbz 4434
2. Study of Noise/Hearing in Paperworking Industry (VOG-G22-364)(100/VOG-G22-364)	74	80					g	c	a	1.8	12.4	57.2	Beqbz 4435
.1 Inform subjects of the results of their hearing tests (1Q79)			o										Beqbz 4436
.2 Send analysis of noise exposure data to participating companies (1Q79)			o										Beqbz 4437
.3 Code and store remaining audiometric and questionnaire data			o										Beqbz 4438
.4 Submit progress report to Director, DBBS			o	o	o	o							Beqbz 4439
.5 Begin critical analysis of noise levels and hearing level data				o									Beqbz 4440
.6 Complete data processing					o								Beqbz 4441
.7 Consult Information Office									o				Beqbz 4442
.8 Submit final project report to Director, DBBS									o				Beqbz 4443
.9 Submit final report to participating companies									o				Beqbz 4444
.10 Submit final report to union									o				Beqbz 4445
.11 Submit abstract to Director, NIOSH C3Q80D									o				Beqbz 4446
													Beqbz 4447
													Beqbz 4448
													Beqbz 4449
													Beqbz 4450
													Beqbz 4451
													Beqbz 4452
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													Beqbz 4458
													Beqbz 4459

PROJECT OBJECTIVE DESCRIPTION - MILESTONES

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY		PLANNED COMPLETION				M F A E U C C N T H D			RESOURCES				
	I	C	1Q	2Q	3Q	4Q	MY	FF	TF	\$1000	\$1000			
3. Impact/Impulsive Noise Data Base (VOG-G24-367)(3.4/69.2/153.9)(3.4/69.2/153.9)(100/VOG-G24-367)	76	82					g	g	a	3.4	69.2	153.9	BeqNp	4462
													BeqNp	4463
													BeqNp	4464
.1 Information Development and Analysis													BeqNp	4465
a. Initiate review and evaluation of existing impact/ impulse noise data bases			o										BeqNp	4466
b. Submit CHABA IA to Director, DBBS and Director, OPPE			o										BeqNp	4467
c. Award IA				o									BeqNp	4468
d. Initiate evaluation of impact/impulse noise measurement techniques				o									BeqNp	4469
e. Begin to refine and develop new techniques and procedures					o								BeqNp	4470
f. Complete technique development and preliminary evaluation						o							BeqNp	4471
g. Consult Information Office						o							BeqNp	4472
h. Complete review of animal data						o							BeqNp	4473
i. Complete evaluation of human studies							o						BeqNp	4474
j. Submit report for data base evaluation to Director, DBBS								o					BeqNp	4475
k. Submit final report on contract # 210-79-0089 to Director, DBBS									o				BeqNp	4476
l. Submit abstract of report to Director, NIOSH										o			BeqNp	4477
.2 Submit progress report to Director, DBBS (1Q,2Q,3Q,4Q81) (1Q,2Q,3Q81)			o	o	o	o							BeqNp	4478
													BeqNp	4479
													BeqNp	4480
.3 Worksite Study													BeqNp	4481
a. Complete peer review									o				BeqNp	4482
b. Submit worksite protocol to Director, DBBS (1Q81)													BeqNp	4483
c. Obtain HSRB clearance (1Q81)													BeqNp	4484
d. Obtain OMB clearance (3Q81)													BeqNp	4485
e. Initiate field and laboratory studies (3Q81)													BeqNp	4486
f. Complete field and laboratory studies (3Q82)													BeqNp	4487
g. Consult Information Office (3Q81)													BeqNp	4488
h. Complete draft final report (3Q82)													BeqNp	4489
i. Submit final report to Director, DBBS (4Q82)													BeqNp	4490
j. Submit abstract to Director, NIOSH (4Q82)													BeqNp	4491
													BeqNp	4492
													BeqNp	4493
													BeqNp	4494

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY		PLANNED COMPLETION				M F A E U C C N			RESOURCES				
	I	C	1Q	2Q	3Q	4Q	T	H	D	MY	FF			TF
											\$1000			\$1000
4. Effects of Segmental Vibration on Chippers and Grinders (VOG-G21-328)(100/VOG-G21-328)	76	80					g	b	a	0.2	10.5	15.5	Beqie	4497
													Beqie	4498
													Beqie	4499
.1 Award contract for engineering data processing (3Q77)													Beqie	4500
.2 Prepare study report (4Q79)													Beqie	4501
.3 Award contract for RFC engineering data processing/methods contract (4Q79)													Beqie	4502
.4 Review analyzed field study data from statistical services				o									Beqie	4503
.5 Award medical data processing contract				o									Beqie	4504
.6 Review Progress report on Vibration Measurement Data Analysis contract				o									Beqie	4505
.7 Submit progress report to Director, DBBS				o	o	o							Beqie	4506
.8 Receive final report on Vibration Measurement Data Analysis contract					o								Beqie	4507
.9 Consult Information Office					o								Beqie	4508
.10 Complete draft final project report					o								Beqie	4509
.11 Submit final project report to Director, DBBS								o					Beqie	4510
.12 Submit abstract of final report to Director, NIOSH								o					Beqie	4511
													Beqie	4512
													Beqie	4513
													Beqie	4514
													Beqie	4515
5. Develop Standard Photosensitization Methodology (.4/75/112.9)(100/VOG-G23-789)	80	81					k	c	a	1.6	75.0	112.1	Beqzi	4518
													Beqzi	4519
.1 Complete peer review				o									Beqzi	4520
.2 Submit progress report to Director, DBBS (1Q,2Q,3Q81)				o	o	o	o						Beqzi	4521
.3 Submit final protocol to Director, DBBS					o								Beqzi	4522
.4 Complete exposure chamber modifications					o								Beqzi	4523
.5 Initiate physical measurement phase						o							Beqzi	4524
.6 Consult Information Office								o					Beqzi	4525
.7 Complete physical measurement phase								o					Beqzi	4526
.8 Initiate animal measurement phase (1Q81)													Beqzi	4527
.9 Complete animal measurement phase (2Q81)													Beqzi	4528
.10 Initiate test trial with known photosensitizer (3Q81)													Beqzi	4529
.11 Complete test trial (4Q81)													Beqzi	4530
.12 Complete draft final report (4Q81)													Beqzi	4531
.13 Submit final project report to Director, DBBS (4Q81)													Beqzi	4532
.14 Submit abstract of final report to Director, NIOSH (4Q81)													Beqzi	4533
													Beqzi	4534
													Beqzi	4535

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY				PLANNED COMPLETION				M F A E U			RESOURCES				
	I	C	1Q	2Q	3Q	4Q	T	H	D	MY	FF	TF				
			1000	1000	1000	1000	1000	1000	1000	1000	1000	1000				
6. Occupationally-Induced Macular Degeneration (100/VOG-G23-788)	80	80							g	c	a	1.0	30.0	53.5	Beqip	4538
.1 Initiate epidemiology search (Framingham)			o												Beqip	4539
.2 Submit progress report to Director, DBBS			o	o	o										Beqip	4540
.3 Complete Framingham data evaluation				o											Beqip	4541
.4 Complete industrial plant visit # 1					o										Beqip	4542
.5 Complete industrial plant visit # 2						o									Beqip	4543
.6 Conduct NIOSH conference - Cincinnati							o								Beqip	4544
.7 Consult Information Office								o							Beqip	4545
.8 Submit final project report to Director, DBBS								o							Beqip	4546
.9 Submit abstract of final report to Director, NIOSH								o							Beqip	4547
								o							Beqip	4548
								o							Beqip	4549
								o							Beqip	4550

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY		PLANNED COMPLETION				M F		RESOURCES			
	I	C	1Q	2Q	3Q	4Q	A E U	C C N	FF	TF		
							T H D	MY	\$1000	\$1000		
*****RADIATION RESEARCH*****											r	4553
											r	4554
											r	4555
DIVISION OF PHYSICAL SCIENCES AND ENGINEERING											D	4556
											D	4557
											D	4558
1. Nonionizing Radiation Monitors (VQU-E23-484)(100/VQU-E23-933)	77	80					d c c	0.7	23.5	40.2	Dcrj	4560
											Dcrj	4561
.1 Complete laboratory investigation of direct reading monitor and actinometer systems				o							Dcrj	4562
.2 Submit final report to Director NIOSH and DTS						o					Dcrj	4563
											Dcrj	4564
											Dcrj	4565
											Dcrj	4566

Division of Biomedical and Behavioral Science

DTBS objectives in studies in occupational reproductive hazards are to identify chemical substances and physical agents that are potentially hazardous and to identify the populations at risk. Outputs are expected to be comprehensive concepts of effects of occupational hazards on reproductive processes including ovulation, spermatogenesis, implantation, and lactation, and recommendations for control of such hazards.

Division of Surveillance, Hazard Evaluations, and Field Studies

DSHEFS occupational reproductive hazards program will increase from 10 man-years of effort and \$500,000 in FY 79 to approximately 15 man-years and \$900,000 (including that portion of the projects that involve reproductive history problems and reproductive studies categorized under cancer and general research). Three new projects that will have a reproductive component will be initiated in FY 80. In addition to three new projects, DSHEFS will study the reproductive effects (testicular atrophy) of exposure to DNBP (see General Research), obtain occupational information from infertility clinics (see project on Case Control Study of Reproductive Outcomes), and possibly study the reproductive effects of at least one hazard under the emerging problems project.

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY				M F				RESOURCES						
	I	C	PLANNED COMPLETION		C	C	N	T	H	D	MY	\$1000	\$1000		
			1Q	2Q										3Q	4Q
*****REPRODUCTIVE HAZARDS RESEARCH*****													s	4569	
													s	4570	
													s	4571	
DIVISION OF BIOMEDICAL AND BEHAVIORAL SCIENCE													B	4572	
													B	4573	
													B	4574	
1. RF/Microwave Teratogenic Effects Study (VOG-W24-362)(4.7/15.0/132.0)(100/VOG-W24-362)	76	81						k	c	a	4.7	65.0	177.9	Besrf	4576
.1 Initiate animal irradiations for RF thermal threshold study (4Q79)														Besrf	4577
.2 Initiate teratology exams for RF thermal threshold study														Besrf	4578
.3 Initiate analysis of data for RF thermal threshold study														Besrf	4579
.4 Complete animal irradiations for RF thermal threshold study														Besrf	4580
.5 Complete teratology exams for RF thermal threshold study														Besrf	4581
.6 Complete analysis of data for RF thermal threshold study														Besrf	4582
.7 Initiate animal irradiations for RF time dependency threshold study														Besrf	4583
.8 Initiate teratology exams for RF time dependency threshold study														Besrf	4584
.9 Review final IA report (NBS)														Besrf	4585
.10 Initiate analysis of data for RF time dependency threshold study														Besrf	4586
.11 Complete animal irradiations for RF time dependency threshold study														Besrf	4587
.12 Submit progress report to Director, DBBS (1Q,2Q81)														Besrf	4588
.13 Complete teratology exams for RF time dependency threshold study														Besrf	4589
.14 Complete data analysis for RF time dependency threshold study														Besrf	4590
.15 Initiate study to determine teratogenicity in rats exposed to simulated industrial RF conditions														Besrf	4591
.16 Complete data analysis for teratogenicity in rats exposed to simulated industrial RF conditions (2Q81)														Besrf	4592
.17 Complete study of teratogenicity in rats exposed to simulated industrial RF conditions (2Q81)														Besrf	4593
.18 Initiate study to determine heat distribution in RF irradiated rats (2Q81)														Besrf	4594
.19 Complete data analysis for study to determine heat distribution in RF irradiated rats (3Q81)														Besrf	4595
.20 Complete study to determine heat distribution in RF irradiated rats (3Q81)														Besrf	4596
.21 Submit final report to Director, DBBS (4Q81)														Besrf	4597
.22 Consult Information Office (4Q81)														Besrf	4598
.23 Submit abstract of final report to Director, NIOSH (4Q81)														Besrf	4599
														Besrf	4600
														Besrf	4601
														Besrf	4602
														Besrf	4603
														Besrf	4604
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														Besrf	4613
														Besrf	4614
														Besrf	4615

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY		PLANNED COMPLETION				M F A E U C C N T H D			RESOURCES		
	I	C	1Q	2Q	3Q	4Q	MY	FF	TF	\$1000	\$1000	
2. Ethoxyethanol and Ethanol: Behavioral Teratology (VOB-B24-275) (.2/1/6) (100/VOB-B24-275)	79	81					k c a	1.5	20.0	57.4	Basbn	4618
.1 Complete peer review (1Q79)											Basbn	4619
.2 Finalize protocol (1Q79)											Basbn	4620
.3 Initiate ethoxyethanol exposures (1Q79)											Basbn	4621
.4 Submit progress report to Director, DBBS			o	o	o	o					Basbn	4622
.5 Complete serial behavioral tests			o	o	o	o					Basbn	4623
.6 Initiate ethoxyethanol/ethanol exposures				o							Basbn	4624
.7 Complete combined exposures and behavioral testing						o					Basbn	4625
.8 Consult Information Office (1Q81)											Basbn	4626
.9 Complete final report (1Q81)											Basbn	4627
.10 Submit final project report to Director, DBBS (1Q81)											Basbn	4628
.11 Submit abstract to Director, NIOSH C1Q800(1Q81)											Basbn	4629
											Basbn	4630
											Basbn	4631
											Basbn	4632
3. Effect of Maternal Lead Exposure on Offspring (VOK-G21-278)(1.0/38.0/60.0)(100/VOK-G21-278)	79	81					k c a	1.7	24.9	68.2	Bbsin	4635
.1 Complete peer review (1Q79)											Bbsin	4636
.2 Establish feed schedule (4Q79)											Bbsin	4637
.3 Complete FY79 data analysis of exposure regime			o								Bbsin	4638
.4 Initiate metabolism studies			o								Bbsin	4639
.5 Consult Information Office			o								Bbsin	4640
.6 Submit progress report to Director, DBBS (1Q,2Q,3Q81)			o	o	o	o					Bbsin	4641
.7 Complete metabolism studies				o							Bbsin	4642
.8 Initiate renal studies				o							Bbsin	4643
.9 Complete renal studies				o							Bbsin	4644
.10 Initiate cardiovascular studies				o							Bbsin	4645
.11 Complete cardiovascular studies					o						Bbsin	4646
.12 Initiate erythropoietic studies					o						Bbsin	4647
.13 Complete erythropoietic studies						o					Bbsin	4648
.14 Initiate function testing in cross-fostered pups (1Q81)							o				Bbsin	4649
.15 Complete function testing in cross-fostered pups (3Q81)											Bbsin	4650
.16 Submit final project report to Director, DBBS (4Q81)											Bbsin	4651
.17 Submit abstract final report to Director, NIOSH (4Q81)											Bbsin	4652
											Bbsin	4653
											Bbsin	4654
											Bbsin	4655

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY		PLANNED COMPLETION				M F A E U C C N			RESOURCES			
	I	C	1Q	2Q	3Q	4Q	T	H	D	MY	FF	TF	
										\$1000	\$1000	\$1000	
4. Development of Radioimmunoassay Procedures (0.2/24.0/30.0)(100/VOT-623-798)	80	81					k	c	a	0.2	45.9	50.9	Bdsin 4658
													Bdsin 4659
													Bdsin 4660
.1 Hazard data sheet (H.D.S.):													Bdsin 4661
a. Develop H.D.S.			o										Bdsin 4662
b. Submit H.D.S. to Director, DBBS			o										Bdsin 4663
c. Submit H.D.S. to all project staff			o										Bdsin 4664
.2 Consult Information Office			o										Bdsin 4665
.3 Submit progress report to Director, DBBS (1Q,2Q,3Q,81)			o	o	o	o							Bdsin 4666
.4 Evaluate steroid hormone assay kits:													Bdsin 4667
a. Testosterone			o	o									Bdsin 4668
b. 17-Beta Estradiol				o	o								Bdsin 4669
c. Progesterone					o	o							Bdsin 4670
.5 Initiate development of testosterone-estradiol binding globulin assay procedure								o					Bdsin 4671
.6 Complete testosterone-estradiol assay procedure (1Q81)								o					Bdsin 4672
.7 Develop assay procedures:													Bdsin 4673
a. Luteinizing hormone (LH)(2Q81)													Bdsin 4674
b. Follicle stimulating hormone (FSH)(2Q81)													Bdsin 4675
c. Estrogen stimulated neurophysin (ESN)(3Q81)													Bdsin 4676
d. Chorionic gonadotropin (CGT) (4Q81)													Bdsin 4677
.8 Submit final project report to Director, DBBS (4Q81)													Bdsin 4678
.9 Submit abstract of final report to Director, NIOSH (4Q81)													Bdsin 4679
													Bdsin 4680
													Bdsin 4681

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY		PLANNED COMPLETION				M F A E U C C N T H D			RESOURCES				
	I	C	1Q	2Q	3Q	4Q	MY	FF	TF	\$1000	\$1000			
5. Reproductive Hazards of Industrial Compounds (V00-C24-370)(100/V00-C24-370)	78	80					k c a	2.9	47.1	112.4	Bcsin	4684		
.1 Complete peer review (1Q78)											Bcsin	4685		
.2 Consult Information Office											Bcsin	4686		
.3 Initiate Drosophila testing:											Bcsin	4687		
a. Vinyl toluene											Bcsin	4688		
b. n-Butyl acetate											Bcsin	4689		
c. Acrolein											Bcsin	4690		
d. Organic peroxide											Bcsin	4691		
e. Diesel exhaust/coal dust particulate											Bcsin	4692		
.4 Complete Drosophila testing:											Bcsin	4693		
a. Vinyl toluene											Bcsin	4694		
b. n-Butyl acetate											Bcsin	4695		
c. Acrolein											Bcsin	4696		
d. Organic peroxide											Bcsin	4697		
e. Diesel exhaust/coal dust particulate											Bcsin	4698		
.5 Initiate dominant lethal testing:											Bcsin	4699		
a. Ethyl benzene											Bcsin	4700		
b. Ethoxyethanol											Bcsin	4701		
c. Ethylene oxide											Bcsin	4702		
d. Diesel exhaust/coal dust particulate											Bcsin	4703		
.6 Complete dominant lethal testing:											Bcsin	4704		
a. Ethyl benzene											Bcsin	4705		
b. Ethoxyethanol											Bcsin	4706		
c. Ethylene oxide											Bcsin	4707		
d. Diesel exhaust/coal dust particulate											Bcsin	4708		
.7 Initiate sperm head morphology testing:											Bcsin	4709		
a. Propylene oxide											Bcsin	4710		
b. Ethoxyethanol											Bcsin	4711		
c. Ethylene oxide											Bcsin	4712		
d. Diesel exhaust/coal dust particulates											Bcsin	4713		
.8 Complete sperm head morphology testing:											Bcsin	4714		
a. Propylene oxide											Bcsin	4715		
b. Ethoxyethanol											Bcsin	4716		
c. Ethylene oxide											Bcsin	4717		
d. Diesel exhaust/coal dust particulates											Bcsin	4718		
.9 Submit progress report to Director, DBBS											Bcsin	4719		
.10 Complete draft final report											Bcsin	4720		
.11 Submit final project report to Director, DBBS											Bcsin	4721		
.12 Submit abstract of final report to Director, NIOSH											Bcsin	4722		
											Bcsin	4723		
											Bcsin	4724		
											Bcsin	4725		

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY		PLANNED COMPLETION				M F A E U C C N			RESOURCES				
	I	C	1Q	2Q	3Q	4Q	T	H	D	MY	FF			TF
											\$1000			\$1000
6. Teratogenic Risk of Workplace Contaminants (V00-W24-346)(2.0/10.0/60.0)(0.5/0.5/12.5)(100/V00-W24-346)	77	82					k	b	a	3.1	492.8	570.0	Bcsin	4728
.1 Complete peer review (1Q77)													Bcsin	4729
.2 Submit RFC to contract office (2Q77)													Bcsin	4730
.3 Award contract (210-77-0049)(4Q77)													Bcsin	4731
.4 Review final report from contractor (FY77 contract) (4Q79)													Bcsin	4732
.5 In-house studies:													Bcsin	4733
a1. Consult Information Office													Bcsin	4734
b1. Complete cyanogen hazard data sheet (HDS)													Bcsin	4735
b2. Submit HDS to Director, DBBS													Bcsin	4736
b3. Submit HDS to all project staff													Bcsin	4737
b4. Initiate cyanogen MTD study													Bcsin	4738
b5. Complete cyanogen MTD study													Bcsin	4739
b6. Initiate cyanogen teratology study													Bcsin	4740
b7. Complete cyanogen teratology study													Bcsin	4741
b8. Submit final cyanogen report to Director, DBBS													Bcsin	4742
c1. Complete bisphenol A HDS													Bcsin	4743
c2. Submit bisphenol A HDS to Director, DBBS													Bcsin	4744
c3. Submit bisphenol A HDS to all project staff													Bcsin	4745
c4. Initiate bisphenol A comparative estrogenic study													Bcsin	4746
c5. Complete bisphenol A comparative estrogenic study													Bcsin	4747
c6. Initiate bisphenol A reproductive study													Bcsin	4748
c7. Complete bisphenol A reproductive study (1Q81)													Bcsin	4749
c8. Submit final bisphenol A report to Director, DBBS (2Q81)													Bcsin	4750
d1. Complete Bronopol internal peer review													Bcsin	4751
d2. Complete Bronopol HDS													Bcsin	4752
d3. Submit HDS to Director, DBBS													Bcsin	4753
d4. Submit HDS to all project staff													Bcsin	4754
d5. Initiate Bronopol acute study													Bcsin	4755
d6. Complete Bronopol acute study													Bcsin	4756
d7. Review pathology report on Bronopol acute study													Bcsin	4757
d8. Initiate Bronopol 2-generation study													Bcsin	4758
d9. Initiate breeding of Bronopol F0 animals (1Q81)													Bcsin	4759
da. Initiate breeding of Bronopol F1 animals (3Q81)													Bcsin	4760
db. Complete Bronopol 2-generation exposures (4Q81)													Bcsin	4761
dc. Submit final Bronopol report to Director, DBBS (2Q82)													Bcsin	4762
e1. Submit progress report to Director, DBBS (1Q,2Q,3Q,4Q81) (1Q,2Q82)													Bcsin	4763
f1. Submit in-house studies final report to Dir., DBBS (3Q82)													Bcsin	4764
f2. Submit abstract to Director, NIOSH (3Q82)													Bcsin	4765
.6 Teratogenic Assessment of Butylene Oxide, Styrene Oxide, and Methyl Bromide (Contract 210-78-0025)													Bcsin	4766
a. Review quarterly progress reports													Bcsin	4767
b. Review draft final report													Bcsin	4768
c. Review final report													Bcsin	4769

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY		PLANNED COMPLETION				M F A E U C C N T H D			RESOURCES		
	I	C	1Q	2Q	3Q	4Q	MY	FF	TF	\$1000	\$1000	
d. Submit final report to Director, DBBS				o							Bcsin	4774
e. Submit abstract of final report to Director, NIOSH				o							Bcsin	4775
.7 Teratogenic Assessment of Ethylbenzene and Ethoxyethanol (Contract 210-79-0037)											Bcsin	4776
a. Complete site visit			o		o						Bcsin	4777
b. Submit contractor's progress report to Director, DBBS			o	o	o						Bcsin	4778
c. Review draft final report						o					Bcsin	4779
d. Review final report						o					Bcsin	4780
e. Submit final report to Director, DBBS						o					Bcsin	4781
f. Submit abstract to Director, NIOSH (1Q81)											Bcsin	4782
.8 Teratogenic Assessment of Allyl Chloride, n-Butyl Acetate, Ethylene Oxide, and Propylene Oxide, (Contract 210-80-(0000))											Bcsin	4783
a. Submit RFC			o								Bcsin	4784
b. Award contract				o							Bcsin	4785
c. Complete site visit (1Q81, 3Q81)				o		o					Bcsin	4786
d. Submit contractor's progress report to Director, DBBS (1Q,2Q,3Q81)				o	o	o					Bcsin	4787
e. Review draft final report (4Q81)											Bcsin	4788
f. Review final report (4Q81)											Bcsin	4789
g. Submit final report to Director, DBBS (4Q81)											Bcsin	4790
h. Submit abstract of final report to Dir., NIOSH (1Q82)											Bcsin	4791
											Bcsin	4792
											Bcsin	4793
											Bcsin	4794
											Bcsin	4795

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY		PLANNED COMPLETION				M F A E U C C N			RESOURCES				
	I	C	1Q	2Q	3Q	4Q	T	H	D	MY	FF			TF
											\$1000			\$1000
7. Mutagenicity-Tier II NIOSH Priority Compounds (V00-C24-398)(0.1/2.5/5.1)(100/V00-C24-398)	78	81					k	a	a	0.1	0.0	2.5	Bcsin	4798
.1 Complete peer review (1Q78)													Bcsin	4799
.2 Submit RFC to contract office (2Q78)													Bcsin	4800
.3 Award contract (210-78-0026) (3Q78)													Bcsin	4801
.4 Initiate mutagenic studies (4Q78)(1Q79)													Bcsin	4802
.5 Initiate testing:													Bcsin	4803
a. Cyclohexanone (3Q79)													Bcsin	4804
b. 2-Methoxyethanol (3Q79)													Bcsin	4805
c. 1,1,2,2-tetrachloroethane (4Q79)													Bcsin	4806
d. Methyl bromide (4Q79)													Bcsin	4807
e. Styrene oxide													Bcsin	4808
f. Butylene oxide													Bcsin	4809
g. Dimethylformamide													Bcsin	4810
h. N,N-dimethylacetamide													Bcsin	4811
i. 2-Nitropropane													Bcsin	4812
j. bis(2-methoxyethoxyethyl)ether													Bcsin	4813
k. N-Methyldicyclohexylamine													Bcsin	4814
l. Hexachlorobutadiene													Bcsin	4815
m. Allyl chloride													Bcsin	4816
.6 Complete testing:													Bcsin	4817
a. Cyclohexanone													Bcsin	4818
b. 2-Methoxyethanol													Bcsin	4819
c. 1,1,2,2-Tetrachloroethane													Bcsin	4820
d. Methyl bromide													Bcsin	4821
e. Styrene oxide													Bcsin	4822
f. Butylene oxide													Bcsin	4823
g. Dimethylformamide													Bcsin	4824
h. N,N-dimethylacetamide													Bcsin	4825
i. 2-Nitropropane													Bcsin	4826
j. bis(2-methoxyethoxyethyl)ether													Bcsin	4827
k. N-Methyldicyclohexylamine													Bcsin	4828
l. Hexachlorobutadiene													Bcsin	4829
m. Allyl chloride													Bcsin	4830
.7 Complete site visit													Bcsin	4831
.8 Submit contractor's progress report to Director, DBBS													Bcsin	4832
.9 Review draft final report (1Q81)													Bcsin	4833
.10 Consult Information Office (1Q81)													Bcsin	4834
.11 Submit final report to Director, DBBS (1Q81)													Bcsin	4835
.12 Submit abstract of final report to Director, NIOSH (2Q81)													Bcsin	4836
													Bcsin	4837
													Bcsin	4838
													Bcsin	4839

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY				PLANNED COMPLETION				M F A E U C C N T H D			RESOURCES				
	I	C	1Q	2Q	3Q	4Q				MY	FF	TF				
											\$1000	\$1000				
8. Reproductive and Carcinogenic Hazard of Styrene - NCI (0.2/1.5/9.0)(0.1/1.5/5.5)(0.1/0.5/4.5)(100/V00-G24-770)	80	83							k	a	e	0.2	250.0	257.5	Bcsin	4842
															Bcsin	4843
															Bcsin	4844
.1 Consult Information Office				o											Bcsin	4845
.2 Conduct peer review				o											Bcsin	4846
.3 Submit RFC to Contract Office					o										Bcsin	4847
.4 Award contract						o									Bcsin	4848
.5 Complete site visit (1Q81)(3Q81)(1Q82)(3Q82)						o									Bcsin	4849
.6 Begin animal exposures						o									Bcsin	4850
.7 Collect litters for teratology							o								Bcsin	4851
.8 Begin post-natal observations								o							Bcsin	4852
.9 Submit contractor's progress report to Director, DBBS (1Q,2Q,3Q,4Q,81)(1Q,2Q,3Q,4Q,82)				o	o	o	o	o							Bcsin	4853
.10 Review draft interim report on reproductive hazard (1Q81)															Bcsin	4854
.11 Submit final interim report to Director, DBBS (1Q81)															Bcsin	4855
.12 Submit abstract of final interim report to Director, NIOSH (2Q81)															Bcsin	4856
.13 Review draft final report (1Q83)															Bcsin	4857
.14 Submit final report to Director, DBBS (1Q83)															Bcsin	4858
.15 Submit abstract of final report to Director, NIOSH (2Q83)															Bcsin	4859
.16 Submit manuscript for publication (3Q83)															Bcsin	4860
DIVISION OF SURVEILLANCE, HAZARD EVALUATIONS AND FIELD STUDIES															Bcsin	4861
															C	4862
															C	4865
															C	4866
															C	4867

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY		PLANNED COMPLETION				M F A E U C C N			RESOURCES				
	I	C	1Q	2Q	3Q	4Q	T	H	D	MY	FF			TF
											\$1000			\$1000
9. Mortality, Medical and Reproductive Study of Lead Workers (1.0/78.0/100.0) (1.0/28.0/50.0) (1.0/28.0/50.0) (100/VMH-W21-553)	76	83					i	b	a	1.1	106	131	Cbsci	4869
Bunker Hill Mortality Study													Cbsci	4870
.1 Complete vital status ascertainment.				o									Cbsci	4871
.2 Obtain master file from contractor (210-77-0097).					o								Cbsci	4872
.3 Complete final report and transmit abstract to Director, NIOSH and copy to DTS (3Q81).													Cbsci	4873
													Cbsci	4874
													Cbsci	4875
													Cbsci	4876
													Cbsci	4877
													Cbsci	4878
Medical Study													Cbsci	4879
.1 Complete medical and industrial hygiene surveys.													Cbsci	4880
.2 Complete final report and transmit abstract to Director, NIOSH and copy to DTS.									o				Cbsci	4881
													Cbsci	4882
													Cbsci	4883
Reproductive Studies													Cbsci	4884
.1 Complete data analysis for HHE study (Delco).													Cbsci	4885
.2 Complete final report for (.1) above and transmit abstract to Director, NIOSH and copy to DTS.									o				Cbsci	4886
.3 Complete walk-through surveys for women's lead battery plant study (2Q81).													Cbsci	4887
.4 Complete questionnaire survey for (.3) above (3Q82).													Cbsci	4888
.5 Complete final report for (.3) above and transmit abstract to Director, NIOSH and copy to DTS (4Q83).													Cbsci	4889
													Cbsci	4890
													Cbsci	4891
													Cbsci	4892
													Cbsci	4893
10. Reproductive and Industrial Hygiene Study of Workers Exposed to Microwave and Radiofrequency Energy (1.0/53.0/75.0) (0.5/20.0/32.0) (100/VMH-W21-595)	78	82					i	c	a	2.5	70	126	Cbscr	4896
.1 Complete microfilming of records.													Cbscr	4897
.2 Complete detailed industrial hygiene surveys.				o									Cbscr	4898
.3 Complete coding of demographic and work history data.					o								Cbscr	4899
.4 Complete interviewing of study population (1Q81).									o				Cbscr	4900
.5 Complete final report and transmit abstract to Director, NIOSH and copy to DTS (2Q82).													Cbscr	4901
													Cbscr	4902
													Cbscr	4903
													Cbscr	4904
													Cbscr	4905
													Cbscr	4906

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY PLANNED COMPLETION				M F A E U C C N			RESOURCES						
	I	C	1Q	2Q	3Q	4Q	T	H	D			MY	FF	TF
													\$1000	\$1000
11. Fetal Mortality Study (0.2/33.0/37.0) (0.2/33.0/37.0) (100/VMO-W11-519)	77	82					w	g	a	0.2	33	37	Ccswi 4909	
.1 Modify IA with NCHS.			o										Ccswi 4910	
.2 Evaluate pre-test.			o										Ccswi 4911	
.3 Initiate final surveys.					o								Ccswi 4912	
.4 Complete final analysis of occupational and industrial classifications.						o							Ccswi 4913	
.5 Complete follow-up for non-response (4Q81).													Ccswi 4914	
.6 Complete final report and transmit abstract to Director, NIOSH and copy to DTS (4Q82).													Ccswi 4915	
													Ccswi 4916	
													Ccswi 4917	
													Ccswi 4918	
													Ccswi 4919	
													Ccswi 4920	
12. Medical, Reproductive and Industrial Hygiene Study of Health Effects of Exposure to Carbon Disulfide (0.3/14.0/20.0) (100/VMH-W21-569)	79	81					i	c	a	2.3	50	101	Cbsii 4923	
.1 Complete subject notification.			o										Cbsii 4924	
.2 Complete industrial hygiene reports.				o									Cbsii 4925	
.3 Complete medical and reproductive data analysis.					o								Cbsii 4926	
.4 Complete final reports and transmit abstract to Director, NIOSH and copy to DTS (2Q81).													Cbsii 4927	
													Cbsii 4928	
													Cbsii 4929	
													Cbsii 4930	
													Cbsii 4931	
													Cbsii 4932	
13. Case Control Study of Reproductive Outcomes (100/VMO-W11-507)	78	80					w	b	a	0.2	5	9	Ccsww 4935	
.1 Complete data analysis				o									Ccsww 4936	
.2 Receive final report from contractor (210-78-0057).					o								Ccsww 4937	
.3 Complete final report and transmit abstract to Director, NIOSH and copy to DTS.						o							Ccsww 4938	
													Ccsww 4939	
													Ccsww 4940	
													Ccsww 4941	
													Ccsww 4942	
14. Association of Parental Occupation and Childhood Cancer (0.2/10.0/17.0) (100/VMO-W11-640)	79	81					w	g	e	0.2	10	17	Ccsww 4945	
.1 Complete site visit to contractor (IA 79-27).			o										Ccsww 4946	
.2 Complete development of occupational codes.				o									Ccsww 4947	
.3 Complete interview form.					o								Ccsww 4948	
.4 Approve contractor's study plan.						o							Ccsww 4949	
.5 Complete final report and transmit abstract to Director, NIOSH and copy to DTS (4Q81).													Ccsww 4950	
													Ccsww 4951	
													Ccsww 4952	
													Ccsww 4953	
													Ccsww 4954	

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY		PLANNED COMPLETION				M F		RESOURCES					
	I	C	1Q	2Q	3Q	4Q	A	E	FF	TF				
							C	N					MY	\$1000
15. Case Comparison Study of Rare Diseases and Natality Outcomes (100/VMO-W11-626)	79	80					w	g	a	1.0	40	62	Ccsww	4957
.1 Complete data collection for natality study.			o										Ccsww	4958
.2 Complete draft report for rare diseases study.				o									Ccsww	4959
.3 Complete final report for rare diseases and natality study and transmit abstract to Director, NIOSH and copy to DTS.						o							Ccsww	4960
													Ccsww	4961
													Ccsww	4962
													Ccsww	4963
													Ccsww	4964
16. Medical, Reproductive and Industrial Hygiene Study of Workers Exposed to Estrogens (2.0/27.0/75.0) (2.0/27.0/75.0) (100/VMH-W21-605)	78	82					i	c	a	3.4	75	151	Cbsii	4967
Wyeth Laboratories Study													Cbsii	4968
.1 Initiate data analysis.				o									Cbsii	4969
.2 Complete final report and transmit abstract to Director, NIOSH and copy to DTS.						o							Cbsii	4970
													Cbsii	4971
													Cbsii	4972
													Cbsii	4973
													Cbsii	4974
													Cbsii	4975
Estrogen Study													Cbsii	4976
.1 Initiate medical and industrial hygiene studies.			o										Cbsii	4977
.2 Decide if feasible to do mortality study.				o									Cbsii	4978
.3 Complete mortality data ascertainment.					o								Cbsii	4979
.4 Complete medical and industrial hygiene surveys.						o							Cbsii	4980
.5 Complete data analysis (4Q81).													Cbsii	4981
.6 Complete final reports and transmit abstracts to Director, NIOSH and copy to DTS (1Q82).													Cbsii	4982
													Cbsii	4983
													Cbsii	4984
17. Cytogenic Epidemiologic Studies (1.0/28.0/50.0) (1.0/28.0/50.0) (100/VMH-W22-663)	80	82					g	c	a	0.8	50	68	Cbsss	4987
.1 Complete peer review.			o										Cbsss	4988
.2 Submit RFC to OAMS				o									Cbsss	4989
.3 Award contract.						o							Cbsss	4990
.4 Complete data analysis (4Q81).													Cbsss	4991
.5 Complete final report and transmit abstract to Director, NIOSH and copy to DTS (2Q82).													Cbsss	4992
													Cbsss	4993
													Cbsss	4994
													Cbsss	4995
													Cbsss	4996

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY				PLANNED COMPLETION				M F			RESOURCES		
	I	C	1Q	2Q	3Q	4Q	A E U			MY	FF	TF	\$1000	\$1000
							T	H	D					
18. Spontaneous Abortions Among Employed Women (1.0/28.0/50.0) (1.0/28.0/50.0) (100/VMH-W22-665)	80	82					g	c	a	1.0	50	72		
.1 Complete consultation with experts in pregnancy outcome.			o										Cbsss	4999
.2 Complete protocol.				o									Cbsss	5000
.3 Complete peer review.					o								Cbsss	5001
.4 Initiate data recording.						o							Cbsss	5002
.5 Complete data collection (1Q81).							o						Cbsss	5003
.6 Complete final report and transmit abstract to Director, NIRSH and copy to DTS (2Q82).								o					Cbsss	5004
													Cbsss	5005
													Cbsss	5006
													Cbsss	5007
													Cbsss	5008
													Cbsss	5009

RESPIRATORY DISEASE RESEARCH

Division of Respiratory Disease Studies

Emphasis in DRDS base research in FY 80 will target occupationally induced airways disease. This is reflected in a number of epidemiological studies dealing with organic dust, specifically the Morbidity, Mortality, and Industrial Hygiene Studies of Workers Exposed to Wood Dust, the Cross Sectional Industrial Hygiene and Medical Study of the Cotton Non-Textile Industry, and the Hygiene and Epidemiological Studies of Normal Blue Collar Workers. Principal indicators in these studies will be symptoms of airways obstruction and pulmonary-function testing. Laboratory correlates of these studies will concentrate on the physiological mechanism of flow rate obstruction, immune mechanisms of lung injury by grain and other organic dusts, pharmaceutical mechanisms of bronchoconstriction, and studies of particle deposition and clearance. It has become clear that organic dusts provide occupational health problems of greater magnitude than inorganic dusts which in the past have been studied principally because of their fibrosing properties.

Division of Physical Sciences and Engineering

The respiratory research activities involve analytical support to DRDS field studies, and monitoring the completion of two contracts related to revising regulations for respirators. Any new research required for respirators can be determined by DSR.

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY				PLANNED COMPLETION				M F			RESOURCES		
	I	C	1Q	2Q	3Q	4Q	T	H	D	MY	FF	TF		
											C	C		N
*****RESPIRATORY DISEASE RESEARCH*****													t	5012
													t	5013
													t	5014
DIVISION OF RESPIRATORY DISEASE STUDIES													A	5015
													A	5016
													A	5017
1. Task Order Contract - Medical Services (VKL-R22-247) (100/VKL-R22-247)	79	80							i a b	.1	60.9	63.2	Aatdm	5019
.1 Initiate task order for medical services in support of Division field cohort studies			1	3	5	7							Aatdm	5020
.2 Receive survey data and monitor contract			o	o	o	o							Aatdm	5021
													Aatdm	5022
													Aatdm	5023
													Aatdm	5024
													Aatdm	5025
2. Lung Mechanics in Experimental ORD (*) (VKC-R23-168) (100/VKC-R23-168)	78	80							k c d	2.0	23.5	63.7	Adtdy	5028
.1 Complete report on aspergillus lung model				o									Adtdy	5029
.2 Complete preliminary experiments on diesel inhalation animal model					o								Adtdy	5030
.3 Complete final report and submit abstract to Director, NIOSH						o							Adtdy	5031
													Adtdy	5032
													Adtdy	5033
													Adtdy	5034
													Adtdy	5035
3. Wollastonite and Non-Metallic Fibers: Fibrogenesis (*) (VKC-R24-917) (2.1/19.0/65.1) (100/VKC-R24-917)	80	82							m c d	2.1	20.6	64.5	Adtdm	5038
.1 Apply for protocol approval from HSRB			o										Adtdm	5039
.2 Complete incubation of human macrophages with particulates--wollastonite, asbestos and silica				o									Adtdm	5040
.3 Complete lysate extractions of particulate exposed macrophages					o								Adtdm	5041
.4 Complete harvesting of "macrophage exposed" fibroblast cultures						o							Adtdm	5042
.5 Complete incubation of fibroblast cultures with particulates only (2Q81)							o						Adtdm	5043
.6 Complete analyses of acid hydrolases from macrophage lysates (2Q81)													Adtdm	5044
.7 Complete harvesting of "particulate exposed" fibroblast cultures (3Q81)													Adtdm	5045
.8 Complete analyses of select tripeptide and fibrous proteins (2Q82)													Adtdm	5046
.9 Complete analyses of matrices from fibroblast cultures--proteoglycans (2Q82)													Adtdm	5047
.10 Complete final report and submit abstract to Director, NIOSH (4Q82)													Adtdm	5048
													Adtdm	5049
													Adtdm	5050
													Adtdm	5051
													Adtdm	5052
													Adtdm	5053
													Adtdm	5054
													Adtdm	5055
													Adtdm	5056
													Adtdm	5057
													Adtdm	5058
													Adtdm	5059
													Adtdm	5060

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY PLANNED COMPLETION				M F A E U C C N			RESOURCES						
	I	C	1Q	2Q	3Q	4Q	T	H	D	MY		FF	TF	
												\$1000	\$1000	
4. Morb & Mort & IH Study of Workers Exposed to Wood Dust (VKL-R21-245) (2.0/45.0/90.0) (1.5/30.0/75.0) (100.VKL-R21-245)	79	82					i	c	a	2.5	26.0	83.0	Aatfc	5063
													Aatfc	5064
													Aatfc	5065
Mortality													Aatfc	5066
.1 Identify cohort						o							Aatfc	5067
.2 Complete data acquisition (1Q81)													Aatfc	5068
.3 Complete searches (4Q81)													Aatfc	5069
.4 Complete analysis (3Q82)													Aatfc	5070
.5 Submit report and abstract to Director, NIOSH (4Q82)													Aatfc	5071
													Aatfc	5072
Morbidity													Aatfc	5073
.1 Site selections					o								Aatfc	5074
.2 Begin exams						o							Aatfc	5075
.3 Complete data collection (4Q81)													Aatfc	5076
.4 Complete analysis (3Q82)													Aatfc	5077
.5 Submit report and abstract to Director, NIOSH (4Q82)													Aatfc	5078
													Aatfc	5079
													Aatfc	5080
													Aatfc	5081
5. Epidemiologic Study of Normal Blue Collar Workers (VKL-R32-227) (10.5/12.0/30.0) (0.5/12.0/30.0) (100/VKL-R32-227)	77	82					g	c	a	2.0	31.7	77.3	Aatfi	5084
													Aatfi	5085
													Aatfi	5086
.1 Rewrite study extension protocol						o							Aatfi	5087
.1 Complete North Carolina field work													Aatfi	5088
.2 Complete analysis													Aatfi	5089
.3 Submit interim report (2Q81)													Aatfi	5090
.4 Control data from NC as well as from cotton, cement and coal studies merged and analyzed (3Q82)													Aatfi	5091
.5 Complete final report and submit abstract to Director, NIOSH (4Q82)													Aatfi	5092
													Aatfi	5093
													Aatfi	5094
													Aatfi	5095
													Aatfi	5096
6. Health Hazards of Animal Confinement Housing (VKP-R22-263) (100/VKP-R22-263)	80	82					f	b	a	1.0	32.7	55.5	Abt fw	5099
													Abt fw	5100
.1 Prepare IH sampling - protocol and obtain peer review						o							Abt fw	5101
.2 Complete IH surveys with U. of Iowa Medical Survey of Primary Swine Producers													Abt fw	5102
.3 Complete preliminary IH surveys of other animal confinement units													Abt fw	5103
.4 Complete data analysis (4Q81)													Abt fw	5104
.5 Complete final report and submit abstract to Director, NIOSH (4Q82)													Abt fw	5105
													Abt fw	5106
													Abt fw	5107
													Abt fw	5108
													Abt fw	5109
													Abt fw	5110
													Abt fw	5111

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY	I	C	PLANNED COMPLETION				M F A E U C C N T H D	RESOURCES				
				1Q	2Q	3Q	4Q		MY	FF	TF		
										\$1000	\$1000		
7. Biologic Activity of Washed Cotton (VKH-R21-915) (100/VKH-R21-915)	80	80					m c a	0.5	22.8	36.7	Actiz	5114	
.1 Develop protocol for human studies with washed cotton			o								Actiz	5115	
.2 HSRB clearance - NIOSH			o								Actiz	5116	
.3 HSRB clearance - USDA			o								Actiz	5117	
.4 Perform exposure studies in model card room				o							Actiz	5118	
.5 Analysis of data					o						Actiz	5119	
.6 Final report to Director, DRDS and Director, NIOSH						o					Actiz	5120	
							o				Actiz	5121	
											Actiz	5122	
											Actiz	5123	
8. Cross Sectional IH & Med. Survey Non-Textile Cotton Industry (VKH-R22-208) (5.5/150.0/355.0) (100/VKH-R22-208)	77	81					i c a	12.0	173.5	472.1	Actis	5126	
.1 Complete in house field study of warehouses and gins			o								Actis	5127	
.2 Complete in house field study of cotton seed oil mills					o						Actis	5128	
.3 Complete control study in house						o					Actis	5129	
.4 Contractors final report							o				Actis	5130	
.5 Complete analysis of waste reutilization and prepare report					o						Actis	5131	
.6 Complete analysis of gins and warehouses & prepare report								o			Actis	5132	
.7 Complete analysis of cotton seed oil mills data & prepare report									o		Actis	5133	
.8 Complete in house field study of cotton classification offices (1Q81)											Actis	5134	
.9 Complete garnetters field study (2Q81) offices (1Q81)											Actis	5135	
.10 Complete all data analysis (3Q81)											Actis	5136	
.11 Final report all segments to Director, NIOSH (3Q81)											Actis	5137	
											Actis	5138	
											Actis	5139	
											Actis	5140	
											Actis	5141	
											Actis	5142	
											Actis	5143	
9. Macrophage Induction of Fibrogenic Activity (*) (VKC-R24-196) (100/VKC-R24-196)	78	80					k c d	2.0	20.0	61.7	Adtmd	5146	
.1 Complete analyses of fibrous proteins					o						Adtmd	5147	
.2 Complete extraction of proteoglycans						o					Adtmd	5148	
.3 Complete chemical analyses of proteoglycans											Adtmd	5149	
.4 Complete final report and submit abstract to Director, NIOSH											Adtmd	5150	
											Adtmd	5151	
											Adtmd	5152	
											Adtmd	5153	
											Adtmd	5154	

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY		PLANNED COMPLETION				M F A E U C C N T H D MY			RESOURCES				
	I	C	1Q	2Q	3Q	4Q				FF	TF			
										\$1000	\$1000			
10. Lung Compliance and Helium-Oxygen Spirometry (VKC-M24-253) (0.3/4.2/11.2) (100/VKC-M24-253)	80	81					m	c	a	0.5	2.9	22.9	Actms	5157
													Actms	5158
													Actms	5159
.1 Develop protocol and apply for peer review and HSRB approval			o										Actms	5160
.2 Obtain supplies, assemble, standardize and test equipment and procedures				o									Actms	5161
.3 Initiate study of 20 subjects per quarter - 40 subjects total					o								Actms	5162
.4 Data analysis (1Q81)													Actms	5163
.5 Complete final report and submit abstract to Director, NIOSH (1Q81)													Actms	5164
													Actms	5165
													Actms	5166
													Actms	5167
11. Alveolar Particle Clearance (*) (VKC-M24-108) (1.0/27.0/50.0) (1.0/22.0/48.9) (100/VKC-M24-108)	80	82					k	c	a	1.0	38.3	61.1	Adtmd	5170
													Adtmd	5171
													Adtmd	5172
.1 Complete peer review			o										Adtmd	5173
.2 Initiate development of preliminary surgical techniques				o									Adtmd	5174
.3 Calibrate equipment and complete experimental procedures					o								Adtmd	5175
.4 Complete experiments on fluid flow in alveoli (1Q81)													Adtmd	5176
.5 Complete experiments on particle movement within alveoli (3Q81)													Adtmd	5177
.6 Complete studies on fluid flow and particle movement in alveoli of diseased animal lungs (3Q82)													Adtmd	5178
.7 Complete final report and submit abstract to Director, NIOSH (4Q82)													Adtmd	5179
													Adtmd	5180
													Adtmd	5181
													Adtmd	5182
													Adtmd	5183
													Adtmd	5184
													Adtmd	5185
12. Animal Facilities - Support (*) (VKC-R40-123) (100/VKC-R40-123)	80	C					s	b	a	0.5	60.0	66.0	Aatmy	5188
													Aatmy	5189
.1 Submit PFP for animal services (care and maintenance)			o										Aatmy	5190
.2 Install animal servicing equipment				o									Aatmy	5191
.3 Award contract for animal services					o								Aatmy	5192
.4 Install animal exposure chamber						o							Aatmy	5193
													Aatmy	5194
													Aatmy	5195

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY				PLANNED COMPLETION				M F			RESOURCES			
	I	C	1Q	2Q	3Q	4Q	T	H	D	MY			FF		TF
													\$1000		\$1000
13. Effects of Added Resistance to Breathing (VKH-R24-155) (1.3/20.0/50.0) (100/VKH-R24-155)	77	81					m	c	d	1.5		5.5	51.7	Actmd	5198
.1 Study 12 subjects per quarter with added resistance			12	24	36	48								Actmd	5199
.2 Analysis of results of added resistance						o								Actmd	5200
.3 Final report to Director, NIOSH, on added resistance						o								Actmd	5201
.4 Develop protocol for added deadspace			o											Actmd	5202
.5 Obtain HSRB clearance			o											Actmd	5203
.6 Study 12 subjects per quarter					12	24								Actmd	5204
.7 Data analysis of added deadspace (3Q81)														Actmd	5205
.8 Complete final report and submit abstract to Director, NIOSH (4Q81)														Actmd	5206
14. Neurotransmission to Airway Smooth Muscle (*) (VKC-R24-110) (1.0/17.2/40.0) (100/VKC-R24-110)	80	82					k	c	a	1.0		16.4	32.7	Actmd	5207
.1 Complete peer review			o											Actmd	5208
.2 Complete ordering and building of apparatus				o										Actmd	5209
.3 Complete calibration of apparatus					o									Actmd	5210
.4 Complete preliminaries on model						o								Actmd	5211
.5 Complete study of effects of ions (Na+, K+) on transmission (2Q81)														Adtnm	5212
.6 Complete study of effects of endogenous substances on transmission (adenosine, catecholamines) (4Q81)														Adtnm	5213
.7 Complete study of occupational toxins on neurotransmission (3Q82)														Adtnm	5214
.8 Complete final report and submit abstract to Director, NIOSH (4Q82)														Adtnm	5215
15. Pharmacological Studies of Bronchoconstriction (*) (VKC-R24-197) (100/VKC-R24-197)	78	80					k	c	a	1.5		19.1	49.0	Adtnm	5216
.1 Complete experiments dealing with occupationally related changes in the sensitivity of Airway Smooth Muscle					o									Adtnm	5217
.2 Complete final report and submit abstract to Director, NIOSH														Adtnm	5218

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY I C	PLANNED COMPLETION				M F A E U C C N T H D	RESOURCES			ADTZZ	5240 5241 5242 5243 5244 5245 5246 5247 5248 5249 5250 5253 5254 5255 5256 5257 5258 5259 5260 5263 5264 5265 5266 5267 5268 5269 5270 5271 5272 5273 5274 5275 5276 5277 5278 5279 5280 5281 5282 5283 5284 5285 5286 5287 5288 5289		
		1Q	2Q	3Q	4Q		FF	TF	MY			\$1000	\$1000
16. Toxicity of Inhaled Mycotoxins (*) (VKC-R21-150) (100/VKC-R21-150)	78	80				k c a	1.7	24.2	59.2	ADTZZ	5240		
.1 Complete development of macrophage culture technique			o							ADTZZ	5241		
.2 Complete development of assay procedures				o						ADTZZ	5242		
.3 Complete investigations of effects of pulmonary exposure to mycotoxins on macrophage production and function					o					ADTZZ	5243		
.4 Complete investigation of effects of mycotoxins on phagocytosis and production of specific antibody						o				ADTZZ	5244		
.5 Complete final report and submit abstract to Director, NIOSH						o				ADTZZ	5245		
17. Immunogenetics of Beryllium Disease in Humans (*) (VKC-C23-180) (100/VKC-C23-180)	78	80				m c a	1.9	17.0	60.3	ADTZZ	5246		
.1 Complete data on HLA, serum factors and delayed hypersensitivity					o					ADTZZ	5247		
.2 Complete final report and submit abstract to Director, NIOSH						o				ADTZZ	5248		
18. Immunology of Grain and Other Organic Dusts (*) (VKC-R23-109) (2.4/38.0/93.5) (2.7/47.0/108.9) (100/VKC-R23-109)	80	82				k c a	2.4	24.5	79.2	ADTZZ	5249		
.1 Initiate further new studies on various research materials and data remaining from completed projects which still possess timely relevance to program goals			o							ADTZZ	5250		
.1 Complete examination of bacterial endotoxin contamination of cotton dust samples and animal house confinement dusts				o						ADTZZ	5251		
.2 Complete analysis of sera from workers exposed to dust in model cotton cardroom						o				ADTZZ	5252		
.3 Initiate collaboration on wood dust studies to evaluate complement activation by wood dusts, associated products and the derivatives (2Q81)										ADTZZ	5253		
.4 Complete analysis for antibodies to leptospirae and and brucellae in sera of swine house confinement workers (3Q81)										ADTZZ	5254		
.5 Complete analysis of cotton textile workers sera for antibodies to hypersensitivity pneumonitis panel (4Q81)										ADTZZ	5255		
.6 Complete fractionation of grain components (1Q82)										ADTZZ	5256		
.7 Complete exposure of animals to grain dust extracts and evaluate in vivo effects (2Q82)										ADTZZ	5257		
.8 Complete long term exposure of animals to Aspergillus, and evaluate long term effects (3Q82)										ADTZZ	5258		
.9 Complete all studies and submit abstract to Director, NIOSH (4Q82)										ADTZZ	5259		

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY		PLANNED COMPLETION				M F A E U C C N T H D MY			RESOURCES					
	I	C	1Q	2Q	3Q	4Q				FF	TF				
										\$1000	\$1000				
DIVISION OF PHYSICAL SCIENCES AND ENGINEERING													D	5291	
19. Analytical Support to Occupational Respiratory Disease													D	5292	
Disease Research (VQK-R40-450)(10C/VQK-R40-450)													D	5293	
.1 Provide chemical analyses for samples collected during industrial hygiene surveys of:													Dbtyi	5295	
a. Diesel emissions in coal mines													Dbtyi	5296	
b. Crushed stone exposure													Dbtyi	5297	
c. Third Round - National Study of Coal Workers Pneumoconioses													Dbtyi	5298	
d. Cement workers													Dbtyi	5299	
.2 Provide analyses of samples from unanticipated industrial hygiene surveys													Dbtyi	5300	
	80	80						a	c	b	1.5	36.2	72.1	Dbtyi	5301
			1.0k	1.8k										Dbtyi	5302
					1.1k	2.0k								Dbtyi	5303
			30	60	90	120								Dbtyi	5304
			400	1.0k		1.3k								Dbtyi	5305
				50	150	200								Dbtyi	5306
														Dbtyi	5307
														Dbtyi	5308
														Dbtyi	5309
														Dbtyi	5310
														Dbtyi	5311

Division of Safety Research

The Division has developed long-range plans for occupational safety research which call for focusing attention on types of accidents that contribute most to workers' compensation costs. The results of this planning process led to the identification of eight program areas for FY 80 (the eighth of which will be started as resources become available in FY 81 or beyond). The seven highest priority programs identified are injury epidemiology; research on falls from elevations; research on "caught-in" type injuries; research in controlling overexertion injuries; support activities to other NIOSH divisions, other Federal agencies, and academia; technology transfer; and research on "struck-by" injuries.

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY PLANNED COMPLETION				M F A E U C C N			RESOURCES					
	I	C	1Q	2Q	3Q	4Q	T	H	D	MY	\$1000	\$1000	
*****SAFETY RESEARCH*****													u 5314
													u 5315
													u 5316
DIVISION OF BIOMEDICAL AND BEHAVIORAL SCIENCE													B 5317
													B 5318
													B 5319
1. Psychology in Health Risk Communication (.5/210/235)(.3/25/33)(.3/10/18)(100/VOB-G23-767)	80	83					u	b	a	0.7	6.4	23.8	Baube 5321
.1 Consult Information Office			o										Baube 5322
.2 Submit progress report to Director, DBBS (1Q,2Q,3Q,4Q81) (1Q,2Q,3Q,4Q82)(1Q,2Q,3Q83)			o	o	o	o							Baube 5323
.3 Initiate literature review			o										Baube 5324
.4 Complete literature review				o									Baube 5325
.5 Formulate approaches for hazard communications					o								Baube 5326
.6 Develop RFC for testing approaches						o							Baube 5327
.7 Hold peer review							o						Baube 5328
.8 Submit RFC to Director, DBBS (1Q81)													Baube 5329
.9 Submit RFC to Contracts (1Q81)													Baube 5330
.10 Award contract (2Q81)													Baube 5331
.11 Obtain HSRB clearance (2Q81)													Baube 5332
.12 Submit OMB package for clearance (3Q81)													Baube 5333
.13 Receive OMB clearance (4Q81)													Baube 5334
.14 Complete observations of effectiveness of health risk communications (2Q82) (4Q82) (2Q83)													Baube 5335
.15 Submit final report to Director, DBBS (4Q83)													Baube 5336
.16 Submit abstract to Director, NIOSH (4Q83)													Baube 5337
DIVISION OF SAFETY RESEARCH													Baube 5338
													Baube 5339
													Baube 5340
													Baube 5341
													Baube 5342
													E 5344
													E 5345
													E 5346

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY		PLANNED COMPLETION				M F A E U C C N			RESOURCES			E E u a i		
	I	C	1Q	2Q	3Q	4Q	T	H	D	MY	FF TF				
											\$1000	\$1000			
2. Administration, DSR	77	C					y	c	a		9.0	210.6	405.6		5348
.1 Safety Division Management (VLA-S11-802)															5349
.a Review of Management Training for Division Staff			o		o										5350
.b Review of career development plans with EEO officers and program development officer				o		o									5351
.c Publish list of certified devices						o									5352
.d All hand briefing meetings			1	2	3	4									5353
.e Complete 54 civil service employee evaluations						o									5354
.f Complete 12 commissioned corp employee evaluations			o												5355
.h NIOSH grants management - DSR input															5356
1. Submit evaluations of grants			3	6	9	12									5357
2. Provide evaluations of new grants (Estimate of 10 for FY 80)				2	5	10									5358
3. Perform annual evaluation prior to grant renewal						o									5359
.i Meet with OSHA's Directorate of Safety to coordinate Safety Program			o		o										5360
.j Nominate appropriate staff for recognition at annual award ceremony			o												5361
.k Dissemination of Safety Research Information															5362
1. Develop methodology			o												5363
2. Implement program				o											5364
.l Safety Research Seminar					o										5365
															5366
															5367
															5368
															5369
															5370
															5371
															5372
															5373
															5374
															5375

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY		PLANNED COMPLETION				M F A E U C C N T H D			RESOURCES				
	I	C	1Q	2Q	3Q	4Q	MY	FF	TF	\$1000	\$1000			
3. Support Activities (3/200/275)(4/225/325)	80	82					t g a	3.1	184.4	242.5			EbubE	5378
.1 Support NIOSH's Safety Research Needs													EbubE	5379
a. Solicit proposals from universities to form institutional agreement for safety research and the development of safety researchers.			o										EbubE	5380
b. Establish institutional agreement							o						EbubE	5381
.2 Support of the Control Technology Program													EbubE	5382
a. Complete and report on review of literature on hazard identification techniques			o										EbubE	5383
b. Complete development of hazard control conceptual model			o										EbubE	5384
c. Complete peer review of conceptual model and survey protocol				o									EbubE	5385
d. Conduct surveys in conjunction with DPSE						4							EbubE	5386
e. Complete analysis of survey findings (1Q81)													EbubE	5387
f. Complete final report (2Q81)													EbubE	5388
g. Transmit abstract to Director, NIOSH (3Q81)													EbubE	5389
h. Distribute report to industry (4Q81)													EbubE	5390
.3 Provide research to help OSHA assess the need for a heat stress standard													EbubE	5391
a. Contract awarded (4Q79): (210-79-0021)													EbubE	5392
b. Complete report to define behavior to classify as safe or unsafe													EbubE	5393
c. Complete tripartite review			o										EbubE	5394
d. Contractor completes heat monitoring set-up				o									EbubE	5395
e. Data collection completed (2Q81)													EbubE	5396
f. Receive and evaluate final report (3Q81)													EbubE	5397
g. Transmit abstract to Director, NIOSH (3Q81)													EbubE	5398
h. Transmit report to OSHA (3Q81)													EbubE	5399
i. Submit report for publication (4Q81)													EbubE	5400
.4 Evaluate the Recognizability of Symbols used on Warning and Instructional Signs in the Workplace													EbubE	5401
a. Interagency agreement with NBS initiated (3Q79): (IA-79-26)													EbubE	5402
b. Complete plant visits and literature review			o										EbubE	5403
c. Obtain SPRG and HSRB approvals				o									EbubE	5404
d. Complete human subject testing for recognizability of selected safety symbols (1Q81)													EbubE	5405
e. Receive final report (2Q81)													EbubE	5406
f. Transmit abstract to Director, NIOSH (3Q81)													EbubE	5407
g. Submit report for publication (4Q81)													EbubE	5408

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY I C	PLANNED COMPLETION				M F A E U C C N			RESOURCES			
		1Q	2Q	3Q	4Q	T	H	D	MY	FF	TF	
		\$1000	\$1000	\$1000	\$1000					\$1000	\$1000	
.5 Evaluate the post training impact on performance of a good safety training program.												EbubE 5424
a. Contract awarded (4Q79): (210-79-0018)												EbubE 5425
b. Report on establishment of criteria for behavioral performance monitoring.			o									EbubE 5426
c. Complete tripartite review				o								EbubE 5427
d. Initiate behavioral monitoring at the two participating facilities					o							EbubE 5428
e. Complete training of industrial truck operators						o						EbubE 5429
f. Data collection completed (1Q81)							o					EbubE 5430
g. Receive draft final report (2Q81)												EbubE 5431
h. Evaluate draft final report (3Q81)												EbubE 5432
i. Obtain approvals for publication of final report (4Q81)												EbubE 5433
j. Transmit abstract to Director, NIOSH (4Q81)												EbubE 5434
k. Submit for publication (1Q82)												EbubE 5435
.6 Conduct and report on in-depth accident investigations locally to identify research needs and weaknesses		2	4	6	8							EbubE 5436
												EbubE 5437
												EbubE 5438
												EbubE 5439
												EbubE 5440
												EbubE 5441
												EbubE 5442
												EbubE 5443

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY		PLANNED COMPLETION				M F		RESOURCES							
	I	C	1Q	2Q	3Q	4Q	T	H	D	MY	\$1000			\$1000		
															A	E
4. Technology Transfer (14/1650/2000)(24/1950/2550)	79	82							x	b	a	7.0	1041	1205	EcufN	5446
.1 Comprehensive Standards Recommendations (VLF-S50-250)															EcufN	5447
															EcufN	5448
															EcufN	5449
															EcufN	5450
															EcufN	5451
.a On-going safety criteria documents (3) (210-79-0024)															EcufN	5452
1. Contract awarded (4Q79) (210-79-0024)															EcufN	5453
2. Complete plant visits			5	15	25										EcufN	5454
															EcufN	5455
3. Project officer review meetings						2	3								EcufN	5456
4. Complete external review meetings (3) (2Q81)															EcufN	5457
5. Complete Division review (3) (3Q81)															EcufN	5458
6. Complete Directors review (3) (4Q81)															EcufN	5459
7. Recieve Final documents (3) (4Q81)															EcufN	5460
.b New safety criteria documents (3)															EcufN	5461
1. Submit RFC					o										EcufN	5462
2. Award contract								o							EcufN	5463
3. Complete documents (4Q82)															EcufN	5464
.c Safety information profiles															EcufN	5465
1. Submit RFC to OPPE			o												EcufN	5466
2. Award of contract				o											EcufN	5467
3. Receive search strategy report				o											EcufN	5468
4. Receive industry SIC codes and industry structure and population, approved by Project Officer					o										EcufN	5469
7. Receive bibliography								o							EcufN	5470
															EcufN	5471
															EcufN	5472
8. Receive final profiles								5							EcufN	5473
9. Receive final report - transmit abstract to Director, NIOSH (1Q81)															EcufN	5474
.d Update Safety Research Directory															EcufN	5475
1. Submit RFC			o												EcufN	5476
2. Award contract				o											EcufN	5477
3. Receive categorized information lists								o							EcufN	5478
4. Receive final lists and report (1Q81)									o						EcufN	5479
															EcufN	5480
															EcufN	5481
Safety Research--Combustible and Flammable Materials (VLD-S23-847)															EcufN	5484
															EcufN	5485
															EcufN	5486
.a Submit RFC			o												EcufN	5487
.b Award contract				o											EcufN	5488
.c Receive final report, abstract to Director, IOSH								o							EcufN	5489
.d Publish final report (3Q81)															EcufN	5490
															EcufN	5491

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY				COMPLETION				M F			RESOURCES		
	I C		1Q	2Q	3Q	4Q	T	H	D	MY	FF	TF	\$1000	\$1000
Technical and Disaster Investigation Assistance (OSHA)														
.a Receive OSHA requests for participation in field investigations as appropriate			o	o	o	o								EcuFN 5494
														EcuFN 5495
														EcuFN 5496
.b Prepare reports identifying and analyzing problem areas			o	o	o	o								EcuFN 5497
														EcuFN 5498
.c Develop data for determining weak, inadequate or standards gaps														EcuFN 5499
1. Submit RFC to OPPE			o											EcuFN 5500
2. Award contract				o										EcuFN 5501
3. Report of case investigations (est. cases)					30									EcuFN 5502
4. Report of case investigations (est. cases)						30								EcuFN 5503
5. Report of remaining case investigations (1Q81)														EcuFN 5504
6. Receive final report, transmit abstract to Director, NIOSH (3Q82)														EcuFN 5505
														EcuFN 5506
														EcuFN 5507
														EcuFN 5508

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY		PLANNED COMPLETION				M F A E U C C N T H D			RESOURCES		EbuIN	
	I	C	1Q	2Q	3Q	4Q	MY	FF	TF	\$1000	\$1000		
5. Research on Falls from Elevations (4/250/350)(9/295/520)	80	82					t b a	2.0	227.0	273.0		5511	
.1 Complete development Performance Requirements for In-situ Testing of Concrete to Prevent Structural Failures in Construction												5512	
a. Review literature			o									5513	
b. Complete peer review of proposed contract				o								5514	
c. Submit RFC to OPPE					o							5515	
d. Award contract						o						5516	
e. Determine and report on primary reasons for structural failures during construction (3Q81)												5517	
f. Determine and report on reliability of present in-situ concrete testing methods. (1Q82)												5518	
g. Recommend performance requirements for acceptable test methods (2Q82)												5519	
h. Receive final report, report abstract to Director, NIOSH (4Q82)												5520	
i. Submit report for publication (1Q83)												5521	
.2 Establish Fall Restraint Device Laboratory												5522	
a. Complete and report on literature review on safety belts, life lines, lanyards, rope grabs, nets, and harness.			o									5523	
b. Complete pilot study							o					5524	
c. Submit future study plan for approval							o					5525	
.3 Determine Causes of Falls from Scaffolds and Develop Appropriate Research Strategy												5526	
a. Complete evaluation of final report from NBS (IA-78-0028)			o									5527	
b. Submit plans for future studies							o					5528	
.4 Determine Safest Designs for Stairways and Stairway Handrails												5529	
a. Contract awarded (4Q79): (210-79-0020)												5530	
b. Complete stair selection and approvals (Phase I)			o									5531	
c. Complete filming of stairway users					o							5532	
d. Complete encoding and analysis of data (Phase II)						o						5533	
e. Stair selection for Phase III (1Q81)							o					5534	
f. Complete filming of stairway users (2Q81)												5535	
g. Complete encoding and analysis of data (3Q81)												5536	
h. Receive final report, transmit abstract to Director, NIOSH (1Q82)												5537	
i. Submit report for publication (2Q82)												5538	

PROJECT OBJECTIVE DESCRIPTION - MILESTONES

FY	I	C	PLANNED COMPLETION				M F A E U C C N T H D MY			RESOURCES	
			1Q	2Q	3Q	4Q				FF	TF

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY		PLANNED COMPLETION				M F	RESOURCES				
	I	C	1Q	2Q	3Q	4Q	A E U	MY	\$1000	\$1000		
							C C N					
6. Research on "Caught-in" Type Injuries (3/225/300)(5/235/360)	80	82					t b a	3.0	269.0	338.0	EbuIN	5560
.1 Determine Safest Design and Use Procedures for Metal Cutting Lathes											EbuIN	5561
a. Contract awarded (4Q78): (210-78-0111)											EbuIN	5562
b. Receive and evaluate Task II report				o							EbuIN	5563
c. Receive final report, transmit abstract to Director, NIOSH						o					EbuIN	5564
d. Submit report for publication							o				EbuIN	5565
.2 Evaluate the Reliability of Presence Sensing Devices as Press Safeguards											EbuIN	5566
a. Contract 210-78-0124 awarded (4Q78)											EbuIN	5567
b. Approval of Task III report, Performance Criteria for Presence Sensing Devices				o							EbuIN	5568
c. Receive final report						o					EbuIN	5569
d. Transmit abstract to Director, NIOSH							o				EbuIN	5570
.3 Assess Machine Safeguarding Approaches which are not Currently Recognized by OSHA Regulations											EbuIN	5571
a. Contract awarded (4Q78): (210-78-0125)											EbuIN	5572
b. Receive final report, transmit abstract to Director, NIOSH						o					EbuIN	5573
c. Submit report for publication							o				EbuIN	5574
.4 Evaluate the use of Light Curtains to Both Safeguard and Trip Presses, at the request of OSHA											EbuIN	5575
a. Submit RFC to OPPE				o							EbuIN	5576
b. Award contract							o				EbuIN	5577
c. Receive and evaluate final report (4Q81)											EbuIN	5578
d. Submit report to OSHA through Director, NIOSH (4Q81)											EbuIN	5579
.5 Conduct hand speed studies to determine necessary distance for locating presence sensing safeguards for presses											EbuIN	5580
a. Complete peer review of protocol				o							EbuIN	5581
b. Obtain HSRB approval of protocol						o					EbuIN	5582
c. Complete report on first set of experiments (4Q81)											EbuIN	5583
d. Prepare recommendations for further study (4Q81)											EbuIN	5584
.6 Evaluate methods for testing the sensitivity of radio-											EbuIN	5585
											EbuIN	5586
											EbuIN	5587
											EbuIN	5588
											EbuIN	5589
											EbuIN	5590
											EbuIN	5591
											EbuIN	5592
											EbuIN	5593
											EbuIN	5594
											EbuIN	5595
											EbuIN	5596
											EbuIN	5597
											EbuIN	5598
											EbuIN	5599
											EbuIN	5600
											EbuIN	5601
											EbuIN	5602
											EbuIN	5603
											EbuIN	5604
											EbuIN	5605

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY				PLANNED COMPLETION				M F			RESOURCES		
	I	C	1Q	2Q	3Q	4Q	C	C	N	MY	\$1000	\$1000		
							T	H	D					
frequency safety devices														EbuIN 5606
a. Conduct in-house analysis of R-F technology			o											EbuIN 5607
b. Submit RFC to OPPE				o										EbuIN 5608
c. Award contract					o									EbuIN 5609
d. Receive and evaluate final report (3Q81)														EbuIN 5610
e. Submit report to OSHA through Director, NIOSH (4Q81)														EbuIN 5611
7. Research on Controlling Overexertion Injuries (2/200/250)(6/150/300)	80	82							t b a	2.0	6.0	52.0		EbumN 5614
														EbumN 5615
.1 Evaluate and compare the Biomechanical and the Psycho-physical Approaches for Analyzing Manual Materials Handling Tasks for the purpose of Reducing Overexertion Injuries.														EbumN 5616
														EbumN 5617
														EbumN 5618
														EbumN 5619
														EbumN 5620
a. Contract awarded (4Q79): (210-79-0022)														EbumN 5621
b. Complete SPRG Clearance			o											EbumN 5622
c. Evaluate Phase II report (1Q81)														EbumN 5623
d. Receive final report, transmit abstract to Director, NIOSH, (4Q81)														EbumN 5624
e. Submit report for publication (1Q82)														EbumN 5625
i. Complete report on research gaps on overexertion injuries					o									EbumN 5626
														EbumN 5627
														EbumN 5628
														EbumN 5629
														EbumN 5630

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY				PLANNED COMPLETION				M F			RESOURCES				
	I	C	1Q	2Q	3Q	4Q	T	H	D	MY	FF	TF				
											A	E	U			C
8. Injury Epidemiology (9/1225/1450),13/1225/1550)	78	82					w	b	a	7.0	1251	1412	Eauwi	5633		
													Eauwi	5634		
													Eauwi	5635		
.i Safety Intelligence (VLB-S11-849)													Eauwi	5636		
													Eauwi	5637		
													Eauwi	5638		
.a BLS Supplementary Data System (SDS)													Eauwi	5639		
1. Complete original data tables					o	o	o						Eauwi	5640		
2. Receive and install OSHA SDS software					o								Eauwi	5641		
3. Disseminate data to Director, DSR and other interested parties					o		o						Eauwi	5642		
													Eauwi	5643		
.b Work Injury Reports (WIR)													Eauwi	5644		
1. WIR planning meeting			o										Eauwi	5645		
2. Complete installation of WIR data tapes				o			o						Eauwi	5646		
3. Produce data tables							o						Eauwi	5647		
4. Disseminate tables with analysis to Director, DSR							o						Eauwi	5648		
													Eauwi	5649		
5. Attend task force meetings				2	4	5							Eauwi	5650		
.c Accident Investigation Methodology (AIM)													Eauwi	5651		
1. Award contract (4Q78) (210-78-0126)													Eauwi	5652		
2. Receive final report, abstract to Director, NIOSH							o						Eauwi	5653		
3. Contractor presentation to DSR staff									o				Eauwi	5654		
4. Publish final report									o				Eauwi	5655		
.e Encode First Reports of Injury (FRI)													Eauwi	5656		
1. Award contract (4Q79) (210-78-0128-7910)													Eauwi	5657		
2. Receive final report and software, abstract to Director, NIOSH			o										Eauwi	5658		
3. Install software to analyze data				o									Eauwi	5659		
													Eauwi	5660		
													Eauwi	5661		
.f Respond to quick response data requests			2	4	6	8							Eauwi	5662		
.g Data retrieval system													Eauwi	5663		
1. Approve test procedure				o									Eauwi	5664		
2. Receive final report and software									o				Eauwi	5665		
.h Data source development (voluntary employer)													Eauwi	5666		
1. Submit RFC to OPPE				o									Eauwi	5667		
2. Award contract						o							Eauwi	5668		
3. Approve employer sample						o							Eauwi	5669		
4. Receive final report, abstract to Director, NIOSH (2Q81)													Eauwi	5670		
.i Report on feasibility of using death certificate data for safety studies.													Eauwi	5671		
													Eauwi	5672		
.j Fire fighter injury reporting system													Eauwi	5673		
1. Award contract			o										Eauwi	5674		
2. Receive recommendations on system design specs				o									Eauwi	5675		
3. Receive report on site selection for pilot study			o										Eauwi	5676		
4. Receive final report, abstract to Director, NIOSH (1Q81)													Eauwi	5677		
													Eauwi	5678		

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY				M F			RESOURCES					
	I	C	PLANNED COMPLETION		A	E	U	FF	TF				
			1Q	2Q	3Q	4Q	C	C	N	MY	\$1000	\$1000	
.2 Safety Epidemiology												Eauwi	5679
.a Submit cooperative agreement memo to HEW			o									Eauwi	5680
.b Complete sources sought process			o									Eauwi	5683
.c Award cooperative agreements							3					Eauwi	5684
.d Receive final report (4Q82)												Eauwi	5685
												Eauwi	5686
												Eauwi	5687
.3 Worker Identified Hazard Control System												Eauwi	5688
.a In-house pilot project												Eauwi	5691
1. Contact employers for voluntary participation in the project				o								Eauwi	5692
2. Complete peer review of project				o								Eauwi	5693
3. Meet with volunteer employers and employee representatives to plan projects					o							Eauwi	5694
4. Complete surveys in cooperating plants						o						Eauwi	5695
5. Complete development of hazard tracking methods, techniques, manuals							o					Eauwi	5696
6. Make recommendations to participating employers								o				Eauwi	5697
7. Monitor progress of the system when fully installed and operational									o			Eauwi	5698
8. Submit progress report to Director, DSR (1Q81)												Eauwi	5699
10. Submit final report to Director, DSR (4Q82)												Eauwi	5700
.b Contract effort												Eauwi	5701
1. Complete peer review				o								Eauwi	5702
2. Submit RFC				o								Eauwi	5703
3. Award contract							o					Eauwi	5704
4. Receive report on contractor plans and arrangements with participating employers								o				Eauwi	5705
5. Submit progress report to Director, DSR (1Q81)												Eauwi	5706
6. Submit final report to Director, DSR (4Q82)												Eauwi	5707
												Eauwi	5708
												Eauwi	5709
												Eauwi	5710
												Eauwi	5711
												Eauwi	5712
												Eauwi	5713
												Eauwi	5714

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY				M F				RESOURCES					
	PLANNED		COMPLETION		A E U				FF TF					
	I	C	1Q	2Q	3Q	4Q	T	H	D	MY	\$1000	\$1000		
*****SURVEILLANCE*****													W	5717
													W	5718
													W	5719
DIVISION OF RESPIRATORY DISEASE STUDIES													A	5720
													A	5721
													A	5722
1. Occupational Hazards Survey of Mining Phase I (VKP-M11-902) (100/VKP-M11-902)	80	80					w	c	f	2.0	7.4	52.2	Abwdm	5724
.1 Initial meetings with DSHEFS for questionnaire design			o										Abwdm	5725
.2 Initial hiring of field personnel			o										Abwdm	5726
.3 Complete development of questionnaire				o									Abwdm	5727
.4 Coordinate OMB clearance with DSHEFS					o								Abwdm	5728
.5 Complete field sampling protocol						o							Abwdm	5729
.6 Complete hiring and training of field personnel							o						Abwdm	5730
.7 Complete purchase of field monitoring equipment							o						Abwdm	5731
													Abwdm	5732
													Abwdm	5733
													Abwdm	5734
2. Mining Industries Surveillance Strategy Options (VKP-M11-905) (100/VKP-M11-905)	80	80					w	b	d	1.0	151.4	174.2	Abwdm	5737
.1 Submit RFC to contracts			o										Abwdm	5738
.2 Evaluate proposals, select contractor and award contract				o									Abwdm	5739
.3 Intermin report received by NIOSH, from contractor including NOHS strategy					o								Abwdm	5740
.4 Final report from contractor received by NIOSH							o						Abwdm	5741
													Abwdm	5742
													Abwdm	5743
													Abwdm	5744
													Abwdm	5745
3. Analysis of X-Ray Surveillance Data (VKQ-M11-254) (0.4/15.7/25.0) (100/VKQ-M11-254)	80	81					g	g	b	.4	3.4	12.5	Aewid	5748
.1 X-ray readings from miners common to rounds 1, 2, and 3 of examination program moved to data base			o										Aewid	5749
.2 Dust samples collected between dates of miners exams obtained from MSHA				o	o	o							Aewid	5750
.3 Complete file building and initiate data analysis (1Q81)													Aewid	5751
.4 complete data analysis (3Q81)													Aewid	5752
.5 Complete final report and submit abstract to Director, NIOSH (4Q81)													Aewid	5753
													Aewid	5754
													Aewid	5755
													Aewid	5756
													Aewid	5757
													Aewid	5758
													Aewid	5759

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY		PLANNED COMPLETION				M F A E U C C N			RESOURCES					
	I	C	1Q	2Q	3Q	4Q	T	H	D	MY	\$1000			\$1000	
4. Target Mining Surveillance (VKP-M11-904) (1.0/325.0/350.0) (100/VKP-M11-904)	80	81					w	b	d		1.0	320.0	342.8	Abumd	5762
.1 Submit RFC			o											Abumd	5763
.2 Select tasks			1						3					Abumd	5764
.3 Award contract				o										Abumd	5765
.4 Submit tasks to contract				1					3					Abumd	5766
.5 Receive report on first task (1Q81)					2									Abumd	5767
.6 Receive report on Tasks 2-3 (2Q81)				1					3					Abumd	5768
.7 Submit copies of final reports to Director, NIOSH														Abumd	5769
														Abumd	5770
														Abumd	5771
														Abumd	5772
														Abumd	5773
DIVISION OF SURVEILLANCE, HAZARD EVALUATIONS AND FIELD STUDIES														C	5775
														C	5776
														C	5777
5. NOHS-2 (100/VMO-G11-639)	80	C					w	b	f		4	1.2m	1.3m	Cwic	5779
.1 Submit RFC to OAMS for sampling strategy.			o											Cwic	5780
.2 Award contract.														Cwic	5781
.3 Complete testing of equipment for data processing.				o										Cwic	5782
.4 Receive strategy from contractor.					o									Cwic	5783
.5 Complete forms design, including OMB approval.									o					Cwic	5784
.6 Complete preparations to initiate surveys.									o					Cwic	5785
									o					Cwic	5786
									o					Cwic	5787
Survey will then be conducted in FY-81 and 82.														Cwic	5788
														Cwic	5789
														Cwic	5790
6. Health Effects Evaluation Data File - Phase II (100/VNO-G11-576)	80	C					w	c	a		1.0	100	122	Cwjji	5793
.1 Complete programming for analysis of 1977-79 data set.			o											Cwjji	5794
.2 Complete report on 1979 data set.														Cwjji	5795
.3 Complete coding of 1976 reports.					o									Cwjji	5796
									o					Cwjji	5797
														Cwjji	5798
														Cwjji	5799
Milestones for following fiscal years will include continual coding and entry into system of all past and new reports.														Cwjji	5800
														Cwjji	5801
														Cwjji	5802
														Cwjji	5803

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY		PLANNED COMPLETION				M F A E U C C N			RESOURCES				
	I	C	1Q	2Q	3Q	4Q	T	H	D	MY	FF			TF
											\$1000			\$1000
7. State-Based Pilot Effort for Occupational-Related Disease Surveillance (100/VMO-G11-627)	79	80					w	f	a	0.5	80	91	Ccwii	5806
.1 Complete peer review.			o										Ccwii	5807
.2 Submit RFA for cooperative agreement.				o									Ccwii	5808
.3 Award cooperative agreement.						o							Ccwii	5809
Future activity will be in monitoring state progress.													Ccwii	5810
													Ccwii	5811
													Ccwii	5812
													Ccwii	5813
													Ccwii	5814
													Ccwii	5815
8. Registration of Disease and Exposure Cohorts (100/VMO-C11-625)	79	80					w	c	a	1.7	40	78	Ccwci	5818
.1 Edit and update existing files (continuous).			o	o	o	o							Ccwci	5820
.2 Update vital status ascertainment for DBCP registry.			o										Ccwci	5821
.3 Submit final reports on registry progress and transmit abstract to Director, NIOSH and copy to DTS.						o							Ccwci	5822
													Ccwci	5823
													Ccwci	5824
													Ccwci	5825
9. Lead Surveillance Feasibility Assessment (100/VMH-G11-670)	80	80					w	c	a	0.5	20	31	Cbwii	5828
.1 Initiate meetings to develop format for data reporting.			o										Cbwii	5829
.2 Initiate liaison with state agencies.				o									Cbwii	5830
.3 Complete development of format for data reporting.					o								Cbwii	5831
.4 Complete feasibility assessment and recommend project for FY-81.						o							Cbwii	5832
													Cbwii	5833
													Cbwii	5834
													Cbwii	5835
													Cbwii	5836
10. State Mortality Module (1.2/224.0/250.0) (1.2/224.0/250.0) (100/VMO-G11-643)	80	82					w	f	a	1.2	70	97	Ccwic	5839
.1 Complete peer review			o										Ccwic	5840
.2 Submit RFA for cooperative agreement.				o									Ccwic	5841
.3 Finalize cooperative agreement.						o							Ccwic	5842
.4 Complete statistical program development (4Q81).													Ccwic	5843
.5 Complete final report and transmit abstract to Director, NIOSH and copy to DTS (4Q82).													Ccwic	5844
													Ccwic	5845
													Ccwic	5846
													Ccwic	5847
													Ccwic	5848
11. Survey of Chronic Diseases Among Defined U.S. Worker Populations (0.2/5.0/9.0) (100/VMO-G11-607)	78	81					w	b	a	0.2	5	9	Ccwic	5851
.1 Initiate data collection.				o									Ccwic	5852
.2 Complete 25% of data collection.						o							Ccwic	5853
.3 Complete final report and transmit abstract to Director, NIOSH and copy to DTS (4Q81). (210-78-0066)													Ccwic	5854
													Ccwic	5855
													Ccwic	5856
													Ccwic	5857
													Ccwic	5858
													Ccwic	5859

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY PLANNED COMPLETION				M F A E U C C N			RESOURCES						
	I	C	1Q	2Q	3Q	4Q	T	H	D			MY	FF	TF
													\$1000	\$1000
12. Health Interview Survey Analysis - Phase II (100/VMO-G11-644)	80	80					w	c	a	0.7	35	51	Ccwic	5862
.1 Complete programming for data analysis.			o										Ccwic	5863
.2 Complete data analysis.					o								Ccwic	5864
.3 Complete final report and transmit abstract to Director, NIOSH and copy to DTS.						o							Ccwic	5865
													Ccwic	5866
													Ccwic	5867
													Ccwic	5868
													Ccwic	5869
13. Techniques for Identifying High Risk Occupational Groups (100/VMO-G11-645)	78	80					w	c	a	2.0	75	120	Ccwic	5872
.1 Add chemicals and trade names to union pointer file.			500	1k	1.5k	2k							Ccwic	5874
.2 Complete report on utility of pointer file.						o							Ccwic	5875
.3 Complete pilot tests for employer self-sampling mechanism.			o	o	o	o							Ccwic	5876
.4 Complete final report on validity of (.3) above and transmit abstract to Director, NIOSH and copy to DTS.						o							Ccwic	5877
													Ccwic	5878
													Ccwic	5879
													Ccwic	5880
14. Information Dissemination Models for High Risk Groups (100/VMO-G11-646)	80	80					w	c	a	1.0	20	42	Ccwic	5883
.1 Complete identification of occupational groups.				o									Ccwic	5884
.2 Validate presumption of risk.					o								Ccwic	5885
.3 Complete development of mode of action; complete final report and transmit to Director, NIOSH and copy to DTS.						o							Ccwic	5886
													Ccwic	5887
													Ccwic	5888
													Ccwic	5889
													Ccwic	5890
15. Access and Analysis of EPA-TSCA Data (100/VMO-G11-647)	80	80					w	c	a	1.0	15	37	Ccwic	5893
.1 Complete identification of type and source of data from EPA				o									Ccwic	5894
.2 Complete IA for access to data.					o								Ccwic	5895
.3 Complete analysis of how NIOSH can use data.						o							Ccwic	5896
.4 Complete report on data utility and transmit to Director, NIOSH and copy to DTS.							o						Ccwic	5897
							o						Ccwic	5898
													Ccwic	5899
													Ccwic	5900
													Ccwic	5901
16. Accessing OSHA Required Environmental Exposure Data (100/VMO-G11-648)	80	80					w	c	a	0.5	20	31	Ccwic	5904
.1 Complete review of existing OSHA data systems.				o									Ccwic	5905
.2 Complete review of employer records.					o								Ccwic	5906
.3 Complete data analysis, implement mechanism to sample employers and recommend FY-81 activities.						o							Ccwic	5907
							o						Ccwic	5908
													Ccwic	5909
													Ccwic	5910
													Ccwic	5911

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY		PLANNED COMPLETION				M F A E U C C N			RESOURCES				
	I	C	1Q	2Q	3Q	4Q	T	H	D	MY	FF			TF
											\$1000			\$1000
17. End Stage Renal Disease Study (0.5/8.0/20.0) (100/VMO-G11-652)	80	81					w	c	a	0.5	5	16	Ccwii	5914
													Ccwii	5915
			o										Ccwii	5916
.1 Establish liaison with HCFA and SSA.				o									Ccwii	5917
.2 Complete review of data from HCFA and SSA.					o								Ccwii	5918
.3 Complete draft IA.						o							Ccwii	5919
.4 Submit final report and transmit abstract to Director, NIOSH and copy to DTS (4Q81).													Ccwii	5920
													Ccwii	5921
													Ccwii	5922

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY				PLANNED COMPLETION				M F A E U C C N T H D MY				RESOURCES			
	I	C	1Q	2Q	3Q	4Q	T	H	D	MY	FF	TF	\$1000	\$1000		
*****SYNTHETIC FUELS RESEARCH*****															x	5925
															x	5926
															x	5927
DIVISION OF RESPIRATORY DISEASE STUDIES															A	5928
															A	5929
															A	5930
1. Feasibility Study for Implementation of Medical Protocol in Energy Industries (VKH-E23-910) (100/VKH-E23-239)	80	80					w	c	c		0.3	1.9	12.1		Acxgt	5932
.1 Complete revision of contractor's medical surveillance					o										Acxgt	5933
.2 Final report on previous contract with copy to Director NIOSH					o										Acxgt	5934
.3 Complete feasibility study for implementation of protocol						o									Acxgt	5935
.4 Develop RFC for implementation									o						Acxgt	5936
															Acxgt	5937
															Acxgt	5938
															Acxgt	5939
															Acxgt	5940
2. I.H. Study of Coal Gasification Plants (VKP-E22-215) (100/VKP-E22-215)	76	80					f	b	c		0.7	279.6	303.5		Abxgd	5943
.0 Contract awarded (4Q78)															Abxgd	5944
.1 Submit RFC to amend contract					o										Abxgd	5945
.2 Receive final report 1st plant					o										Abxgd	5946
.3 Receive final report 2nd plant									o						Abxgd	5947
.4 Receive monthly reports from contractor					o	o	o	o	o						Abxgd	5948
.5 Quarterly reports from contractor					o	o	o	o	o						Abxgd	5949
.6 Receive final report of project and submit abstract to Director, NIOSH									o						Abxgd	5950
															Abxgd	5951
															Abxgd	5952
															Abxgd	5953
															Abxgd	5954
3. I.H. Study of Coal Liquefaction Processes (VKP-E22-225) (100/VKP-E22-225)	76	80					f	c	b		0.7	104.6	128.5		Abxgd	5957
.0 Contract awarded (2Q79)															Abxgd	5958
.1 Submit RFC to amend contract					o										Abxgd	5959
.2 Complete remaining IH field work (Task 3)									o						Abxgd	5960
.3 Complete final report and transmit abstract to Director, NIOSH										o					Abxgd	5961
.4 Receive monthly reports from the Contractor					o	o	o	o	o						Abxgd	5962
															Abxgd	5963
															Abxgd	5964
															Abxgd	5965
															Abxgd	5966

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY		PLANNED COMPLETION				M F A E U C C N T H D			RESOURCES			
	I	C	1Q	2Q	3Q	4Q	MY	FF	TF	\$1000	\$1000		
4. Occupational Health Assess. of En. Ind. (Fluidized Bed Comb.) (VKP-E10-907) (0.7/305.0/330.0) (0.5/180.0/200.0) ((0.5/150.0/173.2) (0.5/50.0/100.0)	80	84					f b c	.7	307.6	331.6	Abxgd	5969	
			o								Abxgd	5970	
											Abxgd	5971	
											Abxgd	5972	
.1 Explore and recommend alternative project approaches and coordinate			o								Abxgd	5973	
.2 Prepare draft scope of work and receive peer review				o							Abxgd	5974	
.3 Submit RFP to contracts office				o							Abxgd	5975	
.4 Complete evaluation of contract proposals					o						Abxgd	5976	
.5 Award contract						o					Abxgd	5977	
.6 Complete: Literature evaluation, preliminary walk-through surveys and report on 1st facility (FY81)											Abxgd	5978	
.7 Complete preliminary walk-through surveys and report on 1st facility (FY81)											Abxgd	5979	
.8 Complete comprehensive study of and report of 1st facility (FY83)											Abxgd	5980	
.9 Complete comprehensive study and report of 2nd and 3rd facility (FY84)											Abxgd	5981	
.10 Complete final report and submit abstract to Director, NIOSH (FY84)											Abxgd	5982	
											Abxgd	5983	
											Abxgd	5984	
											Abxgd	5985	
											Abxgd	5986	
											Abxgd	5987	
											Abxgd	5988	
											Abxgd	5989	
5. Characterizations of a Yugoslavian Coal Gas. Plant (VKP-E22-909) (100/VKP-E22-909)	80	83					i g c	.1	3.0	6.4	Abxgd	5992	
											Abxgd	5993	
											Abxgd	5994	
.1 Travel to Yugoslavia to monitor Yugoslavian data collection and analysis procedures					o						Abxgd	5995	
											Abxgd	5996	
											Abxgd	5997	

TECHNICAL SERVICES

Division of Respiratory Disease Studies

Analytical support for field activities of various divisions will be accomplished primarily by contract. In-house efforts will ensure the availability of needed services.

Division of Biomedical and Behavioral Science

Objectives of technical services are to provide expert clinical, biochemical, and pathological services to NIOSH and OSHA as needed, to participate in surveys and hazard evaluations by NIOSH and OSHA, and to provide good care of research animals. Expected outputs are evaluations of workplace environments and workers' health, and additional methods for doing so.

Division of Surveillance, Hazard Evaluations, and Field Studies

Major DSHEFS FY 80 expansion and innovation will occur in the Health Hazard Evaluation and Technical Assistance Program. Additional requests will be stimulated. Procedures will be streamlined. Pilot studies of regions, States, universities, and community health centers for conducting HHEs/TAs will be undertaken. Simple evaluation mechanisms will be established. HHEs/TAs will be rewritten for broader dissemination, and the issue of use of HHEs/TAs for standards development will be addressed. The number of HHEs/TAs conducted should increase from 140-150 per year to a rate of 200-250 per year by the end of the fiscal year, depending on the success of some of the pilot studies and the speed at which new staff can be recruited and trained.

Division of Technical Services

DTS serves as the focal point in the Institute for the coordination of the NIOSH programs of developing information resources and extensive data bases relating to occupational safety and health. The Division (1) develops technical assistance strategies and resources for program development at the Federal, State, and local levels; (2) prepares and annually revises the legislatively mandated Registry of Toxic Effects of Chemical Substances (RTECS); (3) conducts a clearinghouse for receiving, storing, retrieving, and disseminating technical information on occupational safety and health hazards, including the NIOSH Technical Information Center (NIOSHTIC); and (4) provides statistical services to Institute research activities through the Statistical Project Review Group which reviews all NIOSH activities for adequacy of statistical design, and through development and evaluation of experimental design and data analyses.

Through RTECS and NIOSHTIC, NIOSH research staff and public and private groups are provided the most extensive occupational safety and health data bases in the world. DTS information services also are disseminated through NIOSH libraries, in the form of translations and microfilms as well as publications.

Office of Extramural Coordination and Special Projects

The objectives of the projects in this program are to (1) coordinate and facilitate regional involvement in NIOSH program activities, and (2) provide safety and health consultative and technical services through NIOSH regional staff. NIOSH regional staff (1) stimulate and upgrade health and safety programs in State and local governments, and in industry, to induce or eliminate occupational safety and health problems in the workplace through providing industrial hygiene, nursing, and medical technical and consultative assistance to Federal, State, and local governmental agencies, management, labor, and groups or individuals either covered by OSH Act or involved with implementation of the provisions of the Act; and (2) provide direct assistance to the Institute's Health Hazard Evaluation program in response to employer, employee, or employee representative requests for hazard evaluations and toxicity determinations.

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY	I	C	PLANNED COMPLETION				M F A E U C C N			RESOURCES		MY	\$1000	\$1000		
				1Q	2Q	3Q	4Q	T	H	D	FF	TF					
5. National Coal Workers' Autopsy Study -- Support (*) (VKC-R24-138) (100/VKC-R24-138)	71		C						m	c	b	1.0	25.5	48.3	Adywd	6054	
															Adywd	6055	
															Adywd	6056	
.1 Complete review of cases within one week of request					o	o	o	o							Adywd	6057	
.2 Administer Coal Mine Disaster Plan as necessary					o	o	o	o							Adywd	6058	
.3 Publicize NCWAS					o	o	o	o							Adywd	6059	
.4 Present Display at ASCP/CAP Meeting					o										Adywd	6060	
.5 Complete analysis of data from years 1971-78								o							Adywd	6061	
															Adywd	6062	
6. NCW Autopsy Study (Mandated) - Service (VKQ-310-233) (100/VKQ-310-233)	71		C						x	c	b	.5	80.7	91.0	Aeywd	6065	
															Aeywd	6066	
															Aeywd	6067	
.1 Process acceptable autopsies within 45 days (percent)					100	100	100	100							Aeywd	6068	
															Aeywd	6069	
DIVISION OF BIOMEDICAL AND BEHAVIORAL SCIENCE																	
															B	6071	
															B	6072	
															B	6073	
7. Animal Husbandry Support Service (VOT-G40-385) (100/VOT-G40-385)	80		80						a	b	a	8.1	122.0	304.3	Bdyzi	6075	
															Bdyzi	6076	
															Bdyzi	6077	
.1 Submit progress report to Director, DBBS					o	o	o								Bdyzi	6078	
.2 Perform animal husbandry services and management					o	o	o	o							Bdyzi	6079	
.3 Train animal caretakers and DBBS staff (on-the-job and technical training at appropriate sites)					o	o	o	o							Bdyzi	6080	
.4 Perform Biological Support Branch support services (DBBS directed activities, consultation, committee and task force assignments, interagency liaison, lectures, training programs)					o	o	o	o							Bdyzi	6081	
.5 Submit final project report to Director, DBBS															Bdyzi	6082	
.6 Submit abstract to Director, NIOSH															Bdyzi	6083	
															Bdyzi	6084	
															Bdyzi	6085	
															Bdyzi	6086	
															Bdyzi	6087	
															Bdyzi	6088	
8. Diagnostic and Research Pathology Services (VOT-G40-386) (100/VOT-G40-386)	80		80						a	b	a	8.3	53.3	261.0	Bdyzi	6091	
															Bdyzi	6092	
															Bdyzi	6093	
.1 Hazard data sheet (H.D.S.):															Bdyzi	6094	
a. Develop H.D.S.					o										Bdyzi	6095	
b. Submit H.D.S. to Director, DBBS					o										Bdyzi	6096	
c. Submit H.D.S. to all project staff					o										Bdyzi	6097	
.2 Submit progress report to Director, DBBS					o	o	o								Bdyzi	6098	
.3 Perform animal autopsies					0.6k	1.2k	1.8k	2.4k							Bdyzi	6099	
.4 Prepare histopathology slides					7.5k	15k	23k	30k							Bdyzi	6100	
.5 Prepare tissue sections for electron microscopy					100	200	300	400							Bdyzi	6101	
.6 Perform hematology tests					0.3k	0.5k	0.8k	1.0k							Bdyzi	6102	
.7 Submit final project report to Director, DBBS															Bdyzi	6103	
.8 Submit abstract of final report to Director, NIOSH															Bdyzi	6104	
															Bdyzi	6105	

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY		PLANNED COMPLETION				M F A E U C C N T H D			RESOURCES				
	I	C	1Q	2Q	3Q	4Q	MY	FF	TF	\$1000	\$1000			
9. Particulate and Tissue Analysis Service and Research (VOT-G40-387)(100/VOT-G40-387)	80	80					a b a	4.1	73.6	161.8	Bdyzi	6108		
.1 Hazard data sheet (H.D.S.):											Bdyzi	6109		
a. Develop H.D.S.			o								Bdyzi	6110		
b. Submit H.D.S. to Director, DBBS			o								Bdyzi	6111		
c. Submit H.D.S. to all project staff			o								Bdyzi	6112		
.2 Consult Information Office			o	o	o	o					Bdyzi	6113		
.3 Submit progress report to Director, DBBS			o	o	o	o					Bdyzi	6114		
.4 Perform particle analyses (microprobe)			o	o	o	o					Bdyzi	6115		
.5 Perform particle size analyses and surface area measurements			.9k	1.8k	2.7k	3.6k					Bdyzi	6116		
.6 Perform electron microscope evaluation of thin tissue (biological) sections			15	30	45	60					Bdyzi	6117		
.7 Submit final project report to Director, DBBS			30	60	90	120					Bdyzi	6118		
.8 Submit abstract of final report to Director, NIOSH						o					Bdyzi	6119		
						o					Bdyzi	6120		
											Bdyzi	6121		
											Bdyzi	6122		
											Bdyzi	6123		
											Bdyzi	6124		

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY		PLANNED COMPLETION				M F A E U C C N			RESOURCES					
	I	C	1Q	2Q	3Q	4Q	T	H	D	MY	FF			TF	
											\$1000			\$1000	
10. Clinical-Biochemical Services and Methods Development (VOT-G40-389)(100/VOT-G40-389)	80	80						a	c	a	6.2	139.3	293.7	Bdyzi	6127
.1 Hazard Data sheet (H.D.S.):														Bdyzi	6128
a. Develop H.D.S.				o										Bdyzi	6129
b. Submit H.D.S. to Director, DBBS				o										Bdyzi	6130
c. Submit H.D.S. to all project staff				o										Bdyzi	6131
.2 Consult Information Office				o	o	o	o							Bdyzi	6132
.3 Submit progress report to Director, DBBS				o	o	o								Bdyzi	6133
.4 Perform analyses of DBBS biological samples, research support			1.8k	3.6k	5.4k	7.2k								Bdyzi	6134
.5 Perform analyses of human samples from HHE or TA projects (DSHEFS)			4.8k	9.6k	14k	19k								Bdyzi	6135
.6 Perform radioisotope sample preparation and monitoring			1.5k	3.0k	4.5k	6.0k								Bdyzi	6136
.7 Consult on estrogens industry-wide study (IWS)			o											Bdyzi	6137
.8 Complete metabolism studies:														Bdyzi	6138
a. Hexachlorocyclopentadiene 14C				o										Bdyzi	6139
b. Octachlorocyclopentene 14C					o									Bdyzi	6140
.9 Methods development program:														Bdyzi	6141
a. Liquid Chromatography for benzidine in urine				o										Bdyzi	6142
b. Enzyme evaluation on centrifugal analyzer for SGOT/SGPP/GGPT/LDH/Alk. Phosp./CPK				o	o	o	o							Bdyzi	6143
c. Lipid methodology for coronary risk assessment (cholesterol, triglycerides, HDL cholesterol)						o								Bdyzi	6144
d. Atomic Absorption for Pb and Cd				o										Bdyzi	6145
e. Liquid Chromatography for histamine in tissue				o										Bdyzi	6146
.10 Consult on IWS (as requested)				o	o	o	o							Bdyzi	6147
.11 Develop and implement task order assignments as needed				o	o	o	o							Bdyzi	6148
.12 Submit final project report to Director, DBBS														Bdyzi	6149
.13 Submit abstract of final report to Director, NIOSH														Bdyzi	6150
DIVISION OF PHYSICAL SCIENCES AND ENGINEERING														Bdyzi	6151
														D	6152
														D	6153
														D	6154
														D	6155
														D	6156
														D	6157
														D	6159
														D	6160
														D	6161

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY PLANNED COMPLETION				M F A E U C C N T H D			RESOURCES				
	I	C	1Q	2Q	3Q	4Q	MY	FF	TF			
								\$1000	\$1000			
11. Proficiency Analytical Testing (PAT) (VQK-334-457)(100/VQK-334-457)	80	80					x g a	5.5	477.0	608.5	DbyIN	6163
.1 Provide for participation of 295 laboratories in PAT			265	275	285	295					DbyIN	6164
.2 Provide 50k reference samples for PAT participants			8k	25k	33k	50k					DbyIN	6165
.3 Submit RFC to OPPE for PAT sample production			o		o						DbyIN	6166
.4 Award PAT sample production contract					o						DbyIN	6167
.5 Implement dust generation of PAT silica samples				o							DbyIN	6168
.6 Complete computerization of PAT data analysis					o						DbyIN	6169
.7 Develop new standard reference materials (SRM's)											DbyIN	6170
a. Submit RFC to OPPE for mineral SRM's			o								DbyIN	6171
b. Award interagency agreement with NBS				o							DbyIN	6172
.8 Provide technical and QA assistance to government laboratories											DbyIN	6173
a. Implement a site visit program for government labs			o								DbyIN	6174
b. Provide six site visits				2	4	6					DbyIN	6175
c. Provide six short term round robin tests to government lab			1	3	4	6					DbyIN	6176
											DbyIN	6177
											DbyIN	6178
											DbyIN	6179
											DbyIN	6180
											DbyIN	6181
											DbyIN	6182
12. Maintenance and Calibration Services (VQK-G40-455)(100/VQK-G40-455)	80	80					x c a	5.5	68.6	200.0	DbyJe	6185
.1 Repair industrial hygiene instruments for DSHEFS			150	300	450	600					DbyJe	6186
.2 Calibrate industrial hygiene instruments for DSHEFS			180	375	560	750					DbyJe	6187
.3 Provide electrical engineering support to in-mask sensor development.											DbyJe	6188
a. Complete second generation prototype				o							DbyJe	6189
b. Complete tests with three solvent vapors						3					DbyJe	6190
											DbyJe	6191
											DbyJe	6192
											DbyJe	6193
											DbyJe	6194
											DbyJe	6195
											DbyJe	6196
											E	6198
											E	6199
											E	6200
DIVISION OF SAFETY RESEARCH												

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY		PLANNED COMPLETION				M F A E U C C N T H D			RESOURCES				
	I	C	1Q	2Q	3Q	4Q	MY	FF	TF	\$1000	\$1000			
13. 8. Air Sampling Instruments, TCB (VLI-313-812)	72	80					v b a	8.6	65.0	262.8			Edypm 6202	
.1 Evaluate equipment submitted for certification			o	o	o	o							Edypm 6203	
.2 Evaluate certified equipment from open market			3	6	9	12							Edypm 6204	
.3 Evaluate explosive gas monitor criteria													Edypm 6205	
a. Complete survey market for available suppliers				o									Edypm 6206	
b. Complete collection of current criteria being or being developed for monitor evaluation					o								Edypm 6207	
c. Complete report recommending DSR action in area							o						Edypm 6208	
.4 Personal exposure monitor (PEM) criteria development (recommended NIOSH exposure measurement method)													Edypm 6209	
a. Complete development and evaluation criteria and apply to samples from three gases of long term gas detector tubes			1	2	3								Edypm 6210	
b. Evaluate criteria for solid sorbent tubes and apply to charcoal tubes						o							Edypm 6211	
c. Complete Development of criteria for chemical dosimeters and apply to two types of samplers							o						Edypm 6212	
.5 Complete evaluation of specific equipment as formally requested by OSHA, MSHA or users			1	2	3	4							Edypm 6213	
.6 Preparation of certification Requirements													Edypm 6214	
a. Submit for revised gas detector tube units to OD			o										Edypm 6215	
b. Submit for CMDPSUs to MSHA for review					o								Edypm 6216	
													Edypm 6217	
													Edypm 6218	
													Edypm 6219	
													Edypm 6220	
													Edypm 6221	
													Edypm 6222	
													Edypm 6223	
													Edypm 6224	
													Edypm 6225	
													Edypm 6226	
													Edypm 6227	

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY	PLANNED COMPLETION				M F A E U C C N			RESOURCES		Edypm				
		I	C	1Q	2Q	3Q	4Q	T	H	D			MY	\$1000	\$1000
14. 9. Physical Agents, TCB (VLI-311-813)	72	C						v	b	a	7.4	268.0	428.6	Edypm	6230
.1 Industrial Sound Level Meter Sets														Edypm	6231
a. Certify units			2	3	4	5								Edypm	6232
b. Test off-shelf samples				4		8								Edypm	6233
c. Submit proposed certification revisions for review			o											Edypm	6234
d. Submit proposed certification revisions to Office of Director for public comment				o										Edypm	6235
e. Publish revised certification requirements							o							Edypm	6236
.2 Personal Noise Dosimeter Set Market Survey														Edypm	6237
a. Purchase dosimeters			o											Edypm	6238
b. Complete testing							o							Edypm	6239
c. Publish report (3Q81)														Edypm	6240
.3 Hearing Protector Research Into Field Attenuation Method for Earmuffs														Edypm	6241
a. Complete generation of laboratory attenuation data on 3 earmuff types				c										Edypm	6242
b. Complete development of field attenuation test equipment							o							Edypm	6243
c. Complete validation of field attenuation test equipment data against laboratory attenuation data on 3 earmuff types (2Q81)														Edypm	6244
d. Initiate contract to obtain field data (3Q81)														Edypm	6245
.4 Human Subject Contract														Edypm	6246
a. Obtain initial contract (4Q79) (210-79-0081)														Edypm	6247
b. Human subject pools established			o											Edypm	6248
c. Initiate renew contract option for 2nd year														Edypm	6249
d. Submit final report on 1st year effort to Office of Director (1Q81)							o							Edypm	6250
.5 Ear Plug Field Investigation														Edypm	6251
a. Develop contract work description			o											Edypm	6252
b. Obtain human subject and OMB clearance							o							Edypm	6253
c. Submit RFC to OPPE														Edypm	6254
d. Award contract							o							Edypm	6255
e. Receive final report, abstract to Director, NIOSH (1Q82)														Edypm	6256
														Edypm	6257
														Edypm	6258
														Edypm	6259
														Edypm	6260
														Edypm	6261
														Edypm	6262
														Edypm	6263
														Edypm	6264
														Edypm	6265
														Edypm	6266

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY	I	C	PLANNED COMPLETION				M F A E U C C N T H D MY			RESOURCES				
				1Q	2Q	3Q	4Q					FF			TF
15. 10. Quality Assurance, TCB (VLI-313-814)	72		C					v	b	a	7.6	130.0	292.8	Edypu	6269
.1 Review and maintain records for quality control plans				50	100	150	200							Edypu	6270
.2 Complete quality assurance surveys				6	13	19	23							Edypu	6271
.3 Complete product inspection audits of certified material				50	100	150	200							Edypu	6272
.4 Perform TCB calibration				75	150	225	300							Edypu	6273
.5 Complete computerization of indices of record material on file for certification (lines x 1000)						50	100							Edypu	6274
														Edypu	6275
														Edypu	6276
														Edypu	6277
														Edypu	6278
														Edypu	6279
														Edypu	6280
														Edypu	6281
														Edypu	6282
														G	6284
														G	6285
														G	6286
16. Registry of Toxic Effects of Chemical Substances (VSV-322-733)(3.5/181.5/263.7)(100/VSL-322-746)	77		C					x	g	a	3.5	181.5	263.7	Gcyyy	6288
.1 RTECS contract outputs														Gcyyy	6289
a. Reports received from contractor				o	o	o	o							Gcyyy	6290
b. Quarterly microfiche				o	o	o	o							Gcyyy	6291
c. Submit computer tape to GPO Videocomp					o									Gcyyy	6292
.2 Editorial Review Board				o	o	o	o							Gcyyy	6293
.3 In vitro mutagenesis contract														Gcyyy	6294
a. Reports received from contractor				o	o	o								Gcyyy	6295
b. Data lines input				3.0k	6.0k	9.0k								Gcyyy	6296
.4 CSL Interagency Agreement data input				2.0k	4.0k	6.0k								Gcyyy	6297
.5 NLM Interagency Agreement renewal					o									Gcyyy	6298
.6 Toxic Effects Code contract														Gcyyy	6299
a. Data lines received from contractor				1.5k	3.0k	4.5k								Gcyyy	6300
b. Input data lines				1.0k	2.0k	3.5k								Gcyyy	6301
.7 Increase RTECS New Substance Entries														Gcyyy	6302
a. Submit RFC				o										Gcyyy	6303
b. Award contract					o									Gcyyy	6304
.8 IA with support of the EPA/NIH CIS														Gcyyy	6305
a. Initiate IA				o										Gcyyy	6306
b. Execute IA					o									Gcyyy	6307
														Gcyyy	6308
														Gcyyy	6309
														Gcyyy	6310
														Gcyyy	6311
														Gcyyy	6312
														Gcyyy	6313

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY	PLANNED	COMPLETION				M F A E U C C N T H D	MY	RESOURCES		Gcyyy			
			I	C	1Q	2Q			3Q	4Q			FF	TF
17. NIOSHTIC (100/VSL-322-745)(7.1/575.7/693.8)	80	C					x b a	7.1	575.7	693.8		6316		
.1 NIOSHTIC system maintenance and update												6317		
a. Increase number of NIOSHTIC records												6318		
b. Renew NIOSHTIC contract			74k	77k	80k	83k						6319		
1. Submit RFC to OAMS				o								6320		
2. Exercise renewal option						o						6321		
.2 Renew IAs to provide access to NIOSHTIC												6322		
a. MSHA				o								6323		
b. EPA				o								6324		
c. OSHA				o								6325		
												6326		
												6327		
												6328		

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY	PLANNED COMPLETION				M F A E U C C N T H D	RESOURCES						
		I	C	1Q	2Q		3Q	4Q	MY			FF	TF
												\$1000	\$1000
18. Information Resources and Dissemination (VSL-322-744)(14.5/169.6/438.7)(100/VSL-322-744)	77	C					x g a	14.5	169.6	438.7	Gcyyy	6331	
											Gcyyy	6332	
											Gcyyy	6333	
.1 Exhibits											Gcyyy	6334	
a. Provide information exchange via scientific conference			2		4	8					Gcyyy	6335	
b. Remodel existing exhibit				o							Gcyyy	6336	
.2 Library Services											Gcyyy	6337	
a. Book processing											Gcyyy	6338	
1. Order processing and receipt			250	500	750	1.0k					Gcyyy	6339	
2. Cataloging and shelving/distributing			250	500	750	1.0k					Gcyyy	6340	
3. Announcement of acquisitions			1	2	3	4					Gcyyy	6341	
b. Serials											Gcyyy	6342	
1. Check in and distribute			3.0k	6.0k	9.0k	12k					Gcyyy	6343	
2. Claim letters for missing titles			50	100	150	200					Gcyyy	6344	
3. Notifications of renewals			100	200	300	400					Gcyyy	6345	
4. Process requisitions for renewals and new subscriptions			100	200	300	400					Gcyyy	6346	
c. External loan of NIOSH library material filled by:											Gcyyy	6347	
1. NIOSHTIC microfiche			20	40	60	80					Gcyyy	6348	
2. CIS microfiche to subscribers			25	50	75	100					Gcyyy	6349	
3. HHE and TA material			10	20	30	40					Gcyyy	6350	
4. Library collection			10	20	30	40					Gcyyy	6351	
d. In-house requests											Gcyyy	6352	
1. Supplied through in-house material			400	800	1.2k	1.6k					Gcyyy	6353	
2. Supplied through inter-library loan			750	1.5k	2.3k	3.0k					Gcyyy	6354	
3. Supplied through literature gathering contract			50	100	150	200					Gcyyy	6355	
e. Translation services											Gcyyy	6356	
1. Number of articles translated				200		400					Gcyyy	6357	
2. Number of pages translated				2k		4k					Gcyyy	6358	
3. Number acquired from other sources				10		20					Gcyyy	6359	
4. Complete inventory of manual translation file					o						Gcyyy	6360	
5. Complete agreement with contractor			o								Gcyyy	6361	
6. Renew translation contract						o					Gcyyy	6362	
7. With NTIS, develop a plan for translating Russian Occupational Safety & Health Journal				o							Gcyyy	6363	
											Gcyyy	6364	
											Gcyyy	6365	
											Gcyyy	6366	
											Gcyyy	6367	
											Gcyyy	6368	
											Gcyyy	6369	
											Gcyyy	6370	
											Gcyyy	6371	
											Gcyyy	6372	
											Gcyyy	6373	
											Gcyyy	6374	
											Gcyyy	6375	
											Gcyyy	6376	

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY I C	PLANNED COMPLETION				M F A E U C C N T H D	MY	RESOURCES	
		1Q	2Q	3Q	4Q			FF	TF
		\$1000	\$1000	\$1000	\$1000			\$1000	\$1000
8. Translate journal and provide to NTIS					o				Gcyyy 6377
f. Orders--Processing and Receiving									Gcyyy 6378
1. GPO orders processed and received		25	50	75	100				Gcyyy 6379
2. NTIS orders processed and received		25	50	75	100				Gcyyy 6380
									Gcyyy 6381
									Gcyyy 6382

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY I C	PLANNED COMPLETION				M F A E U C C N T H D			RESOURCES		
		1Q	2Q	3Q	4Q	MY	FF	TF	\$1000	\$1000	
3. Patents ordered and received		10	20	30	40					Gcyyy	6385
4. Renew GPO deposit account					o					Gcyyy	6386
g. Library Coordination Meetings		o		o						Gcyyy	6387
h. Shelf List - reference material										Gcyyy	6388
1. Convert Cincinnati			o							Gcyyy	6389
2. Convert Morgantown and Rockville				o						Gcyyy	6390
3. Combine list					o					Gcyyy	6391
i. Government agency documents processed into manual file		100	200	300	400					Gcyyy	6392
.3 Publications Dissemination										Gcyyy	6393
a. Receiving, identifying, availability source, preparation of mail labels, selection & packaging										Gcyyy	6394
1. Letter requests		50k	100k	150k	200k					Gcyyy	6395
										Gcyyy	6396
2. Telephone requests		6k	12k	18k	24k					Gcyyy	6397
										Gcyyy	6398
3. Exhibit requests		2k		6k	8k					Gcyyy	6399
										Gcyyy	6400
4. Bulk requests		5k	10k	15k	20k					Gcyyy	6401
										Gcyyy	6402
5. Special requests		500	1k	1.5k	2k					Gcyyy	6403
b. Inventory of NIOSH publication stored to produce accurate number of publications disseminated from previous inventory					o					Gcyyy	6404
c. Distribution of Notices of Availability										Gcyyy	6405
1. Internal		o	o	o	o					Gcyyy	6406
2. External		o	o	o	o					Gcyyy	6407
3. Clearance through HEW and Dissemination Strategies		1	2	3	4					Gcyyy	6408
										Gcyyy	6409
e. Distribution/Pub. Development meeting		o								Gcyyy	6410
f. Disseminate Pubs. Catalog from ISS-supplied print-out		o		o						Gcyyy	6411
g. Extend OMB Clearance of mailing list questionnaire										Gcyyy	6412
1. Submit to OPPE		o								Gcyyy	6413
2. Obtain OMB Clearance				o						Gcyyy	6414
h. Mailing List										Gcyyy	6415
1. Update mailing list & obtain print-out from ISS		1	2	3	4					Gcyyy	6416
2. Print-out of mailing list (according to IRDS parameters) for distribution use from ISS		4	8	12	16					Gcyyy	6417
.4 Information Services										Gcyyy	6418
a. Information Users Committee Meetings		o		o						Gcyyy	6419
										Gcyyy	6420
b. Acquisition of contract deliverables for contract file		25	50	75	100					Gcyyy	6421
										Gcyyy	6422
c. Conduct information service seminars		2	4	6	8					Gcyyy	6423
1. DSHLFS										Gcyyy	6424
2. DTMD										Gcyyy	6425
										Gcyyy	6426
										Gcyyy	6427
										Gcyyy	6428
										Gcyyy	6429
										Gcyyy	6430

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY	I	C	PLANNED COMPLETION				M F A E U C C N			RESOURCES		Gcyyy			
				1Q	2Q	3Q	4Q	T	H	D	MY	\$1000			\$1000	
19. NIOSH Information Systems (VSL-322-743)(100/VSL-322-743)(100/VSL-322-736) (100/VSL-322-738)(6.5/66.8/208.0)	77		C						x	g	a	6.5	66.8	208.0	Gcyyy	6441
															Gcyyy	6442
															Gcyyy	6443
															Gcyyy	6444
.1 Current Research File															Gcyyy	6445
a. Acquisition															Gcyyy	6446
1. Acquire ongoing research notices from SSIE				500	1k	1.5k	2k								Gcyyy	6447
					300										Gcyyy	6448
2. Acquire NIOSH research projects from OPPE															Gcyyy	6449
3. Receive from OECSP NIOSH-funded grant and PL-480 awards				10	20	20	40								Gcyyy	6450
4. Identify and evaluate new sources of input				1	2	3	4								Gcyyy	6451
5. Acquire ongoing research notices from new sources				25	50	75	100								Gcyyy	6452
															Gcyyy	6453
															Gcyyy	6454
															Gcyyy	6455
b. Maintenance															Gcyyy	6456
1. Select relevant research notices from external sources				400	800	12k	16k								Gcyyy	6457
2. Dupe-check newly acquired projects				o	o	o	o								Gcyyy	6458
3. Obtain from OPPE new or revised NIOSH initiatives				o		o									Gcyyy	6459
4. Incorporate new or revised NIOSH initiatives and other changes into CFR software and indexing procedures				o		o									Gcyyy	6460
															Gcyyy	6461
															Gcyyy	6462
5. Index and code new research notices					1.1k		1.9k								Gcyyy	6463
															Gcyyy	6464
6. Edit input sheets					1.1k		1.9k								Gcyyy	6465
7. Input, run computer edit, and correct errors				o	o										Gcyyy	6466
8. Update files					o										Gcyyy	6467
c. Use															Gcyyy	6468
1. Develop Job Control Language, documentation, and instructions for computerized searches				o											Gcyyy	6469
2. Disseminate CRF					o										Gcyyy	6470
3. Provide manual and computerized searches				30	60	90	120								Gcyyy	6471
															Gcyyy	6472
.2 Document Information Directory															Gcyyy	6473
a. Acquisition															Gcyyy	6474
1. Acquire NIOSH materials				150	225	300	400								Gcyyy	6475
2. Develop mechanisms for obtaining document identifiers from NIOSHTIC, NTIS, CIS, GPO, & grants accession list				o											Gcyyy	6476
															Gcyyy	6477
b. System maintenance															Gcyyy	6478
1. Dupe check, index and input new entries				125	200	275	325								Gcyyy	6479
2. Input document identifiers from each system															Gcyyy	6480
a. NIOSHTIC				150	225	300	400								Gcyyy	6481
															Gcyyy	6482
b. NTIS				100	175	250	350								Gcyyy	6483
															Gcyyy	6484
															Gcyyy	6485
															Gcyyy	6486

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY PLANNED COMPLETION				M F A E U C C N			RESOURCES					
	I	C	1Q	2Q	3Q	4Q	T	H	D	MY	FF	TF	
											\$1000	\$1000	
c. CIS			50	125	200	300							Gcyyy 6487
d. GPO			25	50	75	100							Gcyyy 6488
c. Implement interactive system software			o										Gcyyy 6489
d. Use													Gcyyy 6490
1. Provide IRDS with printout of document into information directory organized by subject													Gcyyy 6493
a. Cumulative printout					o								Gcyyy 6494
b. Supplement to cumulative													Gcyyy 6495
2. Provide internal and external sources with DID printout													Gcyyy 6496
.3 Mailing List System			10	20	30	40							Gcyyy 6497
a. Interact with IRDS on Mailing List													Gcyyy 6498
1. Make deletions, additions, and changes to list			500	1k	1.5k	2k							Gcyyy 6499
2. Provide mailing labels or lists			4	8	12	16							Gcyyy 6500
.4 Input NIOSH projects to SSIE													Gcyyy 6501
a. Develop input instructions													Gcyyy 6502
u. Transcribe NIOSH project plans to SSIE format and transmit													Gcyyy 6503
.5 NTIS Interagency Agreement													Gcyyy 6504
a. Submit to OPPE			o										Gcyyy 6505
b. Execute				o									Gcyyy 6506
.6 CIS Memorandum of Agreement													Gcyyy 6507
a. Submit to OPPE			o										Gcyyy 6508
b. Execute				o									Gcyyy 6509
c. Submit NIOSH documents to CIS			150	225	300	400							Gcyyy 6510
													Gcyyy 6511
													Gcyyy 6512
													Gcyyy 6513
													Gcyyy 6514
													Gcyyy 6515
													Gcyyy 6516
													Gcyyy 6517

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY		PLANNED COMPLETION				M F A E U C C N T H D MY			RESOURCES					
	I	C	1Q	2Q	3Q	4Q				FF	TF				
										\$1000	\$1000				
20. Information Retrieval and Analysis (VSL-322-742)(10.0/151.3/360.4)(100/VSL-322-742)	77	C					x	g	a	10.0	151.3	360.4	Gcyyy 6520 Gcyyy 6521 Gcyyy 6522 Gcyyy 6523 Gcyyy 6524 Gcyyy 6525 Gcyyy 6526 Gcyyy 6527 Gcyyy 6528 Gcyyy 6529 Gcyyy 6530 Gcyyy 6531 Gcyyy 6532 Gcyyy 6533 Gcyyy 6534 Gcyyy 6535 Gcyyy 6536 Gcyyy 6537 Gcyyy 6538 Gcyyy 6539 Gcyyy 6540 Gcyyy 6541 Gcyyy 6542 Gcyyy 6543 Gcyyy 6544 Gcyyy 6545 Gcyyy 6546 Gcyyy 6547 Gcyyy 6548 Gcyyy 6549 Gcyyy 6550 Gcyyy 6551 Gcyyy 6552 Gcyyy 6553 Gcyyy 6554 Gcyyy 6555 Gcyyy 6556 Gcyyy 6557 Gcyyy 6558 Gcyyy 6559 Gcyyy 6560 Gcyyy 6561 Gcyyy 6562 Gcyyy 6563 Gcyyy 6564 Gcyyy 6565		
.1 Technical information assistance															
a. Requests received from internal sources			275	550	825	1.1k									
b. Requests completed for internal sources			275	550	825	1.1k									
c. Requests received from external sources			550	1.1k	1.7k	2.2k									
d. Requests completed for external sources			550	1.1k	1.7k	2.2k									
e. Requests referred to other NIOSH staff			15	30	45	60									
f. Presentation on IH information sources			3	6	9	12									
.2 Development and maintenance of information support capabilities															
a. Renew PO agreements for data base vendors (FY-81)															
1. Submit requisitions															
2. Complete agreements															
a. New York Times (FY '80)			o												
b. Systems Development Corp.			o												
b. Renew IA for data bases and information support															
1. a. FDA			o												
b. Federal Library Committee															
1. Lockheed															
2. Bibliographic Research Services															
3. Systems Development Corp.															
c. DOE															
d. NASA															
2. Complete IAs for FY 81															
a. FDA															
b. Federal Library Committee															
c. DGE															
c. Acquire additional data bases to support in-house activities															
1. Identify and review new data bases and user guides			1	2	3										
2. Submit requisitions			1	2	3										
3. Complete agreements				1	2										
.3 Technology transfer systems															
a. Government-Industry Data Exchange Program (GIDEP)															
1. Provide publications			75	100	150	200									
2. Analysis of file utilization															
b. Federal Lab Consortium (2 meetings)			1		2										
1. Provide information in response to requests			25	50	75	100									

PROJEC / OBJECTIVE DESCRIPTION - MILESTONES	FY		PLANNED COMPLETION				M F A E U C C N T H D MY			RESOURCES	
	I	C	1Q	2Q	3Q	4Q				FF	TF
										\$1000	\$1000
c. Legitech/EIES											
1. Responses to queries			8	16	24	30					
										Gcyyy	6566
										Gcyyy	6567
										Gcyyy	6568
2. Requests for data			5	10	15	20					
										Gcyyy	6569
d. NIOSH-OSHA computer conferencing network											
1. make presentation to NIOSH-OSHA policy committee			o								
										Gcyyy	6570
2. Hold NIOSH-OSHA working group meeting to plan implementation			o								
										Gcyyy	6571
3. Develop system requirements				o							
										Gcyyy	6572
4. Complete task order for system software modifications					o						
										Gcyyy	6573
5. Initiate computer conferencing						o					
										Gcyyy	6574
6. Hold orientation for system users							o				
										Gcyyy	6575
										Gcyyy	6576
										Gcyyy	6577
										Gcyyy	6578
										Gcyyy	6579

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY PLANNED COMPLETION				M F			RESOURCES	
	I	C	1Q	2Q	3Q	4Q	A E U	FF	TF
			T	H	D	MY	\$1000	\$1000	
1. % completed in 2 weeks after receipt			100	100	100	100			
.4 Statistical Development Activities									
a. Review 48 reports and contract proposals			12	24	36	48			
1. % completed within 3 weeks			75	75	75	75			
b. Lecture at 12 NIOSH training courses			3	6	9	12			
c. Provide 4 statistical seminars			1	2	3	4			
d. Develop statistical sampling strategies and confidence limits for noise measurements:									
1. Develop experimental design for data collection by DPSE			o						
2. Receive noise data collected by DPSE						o			
3. Analyze data and develop theory of errors (3Q 81)									
4. Prepare final report (4Q 81)									
e. Provide 60 consultation days related to statistical theory and applied statistics activities			15	30	45	60			
f. Develop statistical methodology for analysis of Uranium Miners Study									
1. Formulate statistical models and related statistical protocol				o					
2. Preliminary analyses of data						o			
3. Submit final report (1st Quarter FY 81)									
g. Develop statistical protocol for respirator quantitative fit testing (joint with DPSE)									
1. Develop RFC			o						
2. Review bids and select contractor				o					
3. Monitor contract - site visits				o					
4. Receive contractor's final report (2Q 81)						o			
5. Publish as NIOSH report (4Q 81)									
OFFICE OF EXTRAMURAL COORDINATION AND SPECIAL PROJECTS									
									Gayyy 6628
									Gayyy 6629
									Gayyy 6630
									Gayyy 6631
									Gayyy 6632
									Gayyy 6633
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PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY I C	PLANNED COMPLETION				M F A E U C C N T H D			RESOURCES					
		1Q	2Q	3Q	4Q	MY	FF	TF	\$1000	\$1000				
22. NIOSH Extramural Coordination (VCA-100-012) (6.9/0.64/0.49) (100/VCA-100-012)	76	C					x	g	a	5.9	238	359	LLyyN	6665
													LLyyN	6666
													LLyyN	6667
.1 Represent Institute on intra- and interagency committees			o	o	o	o							LLyyN	6668
a. TSCA Interagency Testing Committee													LLyyN	6669
b. National Commission on Heart, Lung, and Cancer													LLyyN	6670
c. HEW Digestive Diseases Coordinating Committee													LLyyN	6671
d. Committee to Coordinate Environmental and Related Programs													LLyyN	6672
e. OMB Zero-Based Budgeting and Toxicology Committee													LLyyN	6673
f. Toxic Substances Strategy Committee													LLyyN	6674
g. NCI Cancer Clearinghouse Advisory Committee													LLyyN	6675
h. HEW Committee on Health Research Principles													LLyyN	6676
.2 Other coordinating activities													LLyyN	6677
a. Hold meetings of Coal Mine Health Advisory Committee					1	2	3						LLyyN	6678
b. Hold meetings of NIOSH Human Subjects Review Board			3	6	9	12							LLyyN	6679
c. NIOSH input into Annual Report on Environmental Carcinogens (NIOSH/NIH/NCI)				o									LLyyN	6680
d. Coordinate National Health Service Corps/Program in Occupational Health			o	o									LLyyN	6681
e. Coordinate NIOSH input into HRA project to develop training material dealing with occupational health			o	o	o	o							LLyyN	6682
3. Interagency Agreements													LLyyN	6683
a. Submit NCI IA to OPPE			o										LLyyN	6684
b. Obtain signatures of concurrence on NCI IA				o									LLyyN	6685
c. Hold quarterly meetings with NCI			o	o	o	o							LLyyN	6686
d. Complete NCI six-month progress report				o									LLyyN	6687
e. Complete NCI annual progress report							o						LLyyN	6688
f. Hold quarterly meetings with EPA			o	o	o	o							LLyyN	6689
g. Complete EPA six-month progress report				o									LLyyN	6690
h. Complete EPA annual progress report								o					LLyyN	6691
i. Submit NHSC IA to OPPE			o										LLyyN	6692
j. Obtain signatures of concurrence on NHSC IA				o									LLyyN	6693
k. Hold quarterly meetings with NHSC					o	o							LLyyN	6694
l. Transfer quarterly money to PHS Hospitals			o	o	o	o							LLyyN	6695
m. Hold quarterly meetings with PHS Hospitals			o	o	o	o							LLyyN	6696
n. Receive annual report from PHS Hospitals							o						LLyyN	6697
													LLyyN	6698
													LLyyN	6699
													LLyyN	6700
													LLyyN	6701
													LLyyN	6702
													LLyyN	6703
													LLyyN	6704
													LLyyN	6705
													LLyyN	6706
													LLyyN	6707

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY		PLANNED COMPLETION				M F A E U C C N			RESOURCES				
	I	C	1Q	2Q	3Q	4Q	T	H	D	MY	FF TF			
											\$1000	\$1000		
23. Special Projects (VCA-100-012) (6.9/0.64/0.49) (100/VCA-100-012)	76	C					x	b	a	5.9	237	359	LLyyy	6710
.1 Hold Second NIOSH Annual Scientific Symposium													LLyyy	6711
.2 Submit RFC for Third NIOSH Annual Scientific Symposium			o	o									LLyyy	6712
.3 Award contract for Third NIOSH Annual Scientific Symposium							o						LLyyy	6713
.4 Hold Conference for NIOSH EIS Officers			o										LLyyy	6714
.5 Participate in CDC EIS Conference								o					LLyyy	6715
.6 Develop physician career development paper							o	o					LLyyy	6716
.7 Develop outline and identify candidates for book on "Differential Diagnoses for Occupationally Related Diseases"									o				LLyyy	6717
.8 Nominate appropriate staff for recognition at Annual Awards Ceremony			o										LLyyy	6718
.9 Submit employee performance appraisals			3				18						LLyyy	6719
													LLyyy	6720
													LLyyy	6721
													LLyyy	6722
													LLyyy	6723
													LLyyy	6724
													LLyyy	6725
													LLyyy	6726

PROJECT OBJECTIVE DESCRIPTION - MILESTONES	FY PLANNED COMPLETION				M F			RESOURCES					
	I	C	1Q	2Q	3Q	4Q	A	E	U				
							C	C	N				
						T	H	D	MY	\$1000	\$1000		
*****TOXICOLOGY*****												z 6729	
												z 6730	
												z 6731	
DIVISION OF RESPIRATORY DISEASE STUDIES												A 6732	
												A 6733	
												A 6734	
1. Toxicity of Selected Particulates to Alveolar Macrophages (*) (VKC-R24-198) (1.1/5.0/30.0) (100/VKC-R24-198)	77	81					k	c	a	1.5	34.5	68.7	Adzmi 6736
.1 Install and calibrate the exposure equipment				o									Adzmi 6737
.2 Complete in vivo (animal exposure) experiments dealing with the effect of particulates on some aspects of alveolar macrophage function (i.e., oxygen consumption, metabolism, and particule uptake)													Adzmi 6738
.3 Complete in vivo (animal exposure) experiments dealing with the effect of particulates on chemiluminescence and superoxide production in alveolar macrophages (1Q81)													Adzmi 6739
.4 Complete final report and submit abstract to Director, NIOSH (2Q81)													Adzmi 6740
													Adzmi 6741
													Adzmi 6742
													Adzmi 6743
													Adzmi 6744
													Adzmi 6745
													Adzmi 6746
													Adzmi 6747
													Adzmi 6748
													Adzmi 6749

DEPARTMENT OF
HEALTH, EDUCATION, AND WELFARE
PUBLIC HEALTH SERVICE
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