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"LAB" JOINT CROSS-SERVICE GROUP GUIDANCE PACKAGE

NAVAL MEDICAL RESEARCH INSTITUTE

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COMPLETE REVISED DATA CALL 16 SEP 94

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SECTION II: CAPACITY OF DOD COMPONENTS

2.1 **Workload.** Use the following table to describe historic and projected workload at each activity in terms of funding and workyears. Assume previous BRAC closures and realignments are implemented on schedule. Projected funding will be derived from FY95 President's Budget Submission (Then year dollars). Past fiscal year data shall begin with FY86 or at the inception of the activity as it existed on 1 Oct 93. (BRAC Criteria I & IV)

Information Required	Fiscal Years											
	86	87	88	89	90	91	92	93	94	95	96	97
Total Funds Programmed ($M)	19,161.3	17,897.6	19,380.0	18,881.9	34,923.2	30,110.9	47,340.8	56,425.4	62,935.3	62,356.6	64,028.3	65,325.1
Total Actual Funds ($M)	19,534.3	18,287.6	19,515.1	19,181.0	35,490.0	30,829.4	49,185.3	59,398.1				
Programmed Workyears	172	172	172	172	172	167	162	162	162	162	162	162
Actual Workyears	171	171	171	171	171	166	163	163				

- Budgeted workyears are the selected indicator of the "lab" infrastructure's capacity at an aggregate level for each Military Department. They include both workyears funded directly by the Military Department and the workyears funded from organizations outside the Military Department.

Workyears = government personnel and on-site FFRDCs and SETAs

2.2 **Excess "Lab" Capacity -- Measured at the DOD Component Level**

- Excess "Lab" Capacity = Sum of the Peak Workyears - Sum of the Projected Workyears
  - -- Peak at each activity = Highest value between FY86 (or since inception of organization) and FY93
  - -- Projected at each activity = Estimated at FY97

Excess Capacity = (171 - 162) = 9

SECTION II: CAPACITY OF DOD COMPONENTS

2.1 **Workload.** Use the following table to describe historic and projected workload at each activity in terms of funding and workyears. Assume previous BRAC closures and realignments are implemented on schedule. Projected funding will be derived from FY95 President's Budget Submission (Then year dollars). Past fiscal year data shall begin with FY86 or at the inception of the activity as it existed on 1 Oct 93. (BRAC Criteria I & IV)

Information Required	Fiscal Years											
	86	87	88	89	90	91	92	93	94	95	96	97
Total Funds Programmed ($M)	19,161.3	17,897.6	19,580.0	18,881.9	34,923.2	30,110.9	47,340.8	56,425.4	61,720.7	65,884.1	68,991.2	71.600.3
Total Actual Funds ($M)	19,554.3	18,287.6	19,515.1	19,181.0	35,490.0	30,829.4	49,185.3	59,398.1				
Programmed Workyears	172	172	172	172	172	167	162	162	162	162	162	162
Actual Workyears	171	171	171	171	171	166	163	163				

- Budgeted workyears are the selected indicator of the "lab" infrastructure's capacity at an aggregate level for each Military Department. They include both workyears funded directly by the Military Department and the workyears funded from organizations outside the Military Department.

Workyears = government personnel and on-site FFRDCs and SETAs

2.2 **Excess "Lab" Capacity -- Measured at the DOD Component Level**

- Excess "Lab" Capacity = Sum of the Peak Workyears - Sum of the Projected Workyears
  -- Peak at each activity = Highest value between FY86 (or since inception of organization) and FY93
  -- Projected at each activity = Estimated at FY97

Excess Capacity = (171 - 162) = 9

SECTION III: CAPABILITY OF ACTIVITIES TO PERFORM COMMON SUPPORT FUNCTIONS (CSFs): Provide the information described for each common support function listed in Appendix C in which you are actively engaged.

Command CSFs:
Infectious Diseases
Human Systems
Manpower and Personnel

3.0 Mission: Describe the major capabilities at your activity contributing to the common support function in bulletized format. Describe any relationship and interconnectivity with other functions (common or otherwise) in support of the overall activity mission.

General Mission:

To conduct research, development, test, and evaluations to enhance the health, safety, and readiness of Navy and Marine Corps personnel in the effective performance of peacetime and contingency missions, and to perform such other functions or tasks as may be directed by higher authority.

Infectious Diseases:

Conduct basic and applied research on the development of Vaccines and other methods for the prevention, rapid diagnosis, and treatment of infectious diseases of military importance.

Conduct basic and applied research on the epidemiology of infectious diseases and provide assessments of the potential effects of new emerging disease threats in areas of military interest.

Conduct basic and applied research on rapid, field-deployable methods for the identification and diagnosis of potential biological warfare agents.

Provide administrative support and program coordination for research work carried out at the Naval Medical Research Institute Detachment in Lima, Peru and in other Navy overseas locations.

Provide a source of personnel, trained in state-of-the-art medical technology, for deployment in specialized field laboratories and as advisors or consultants in the application of new biomedical technology to operational problems.

Human Systems:

Conduct basic and applied research on diving and hyperbaric medicine issues.

Conduct basic and applied research on tissue and organ transplantation.

Conduct basic and applied research on blood preservation, enhanced reconstitution of normal blood cell components, and the development of artificial blood substitutes.

Conduct basic and applied research on environmental medicine, and the improvement of the performance of Navy and Special Forces personnel in difficult environments and under sustained operations.

Provide administrative support and program coordination for research work carried out at the Naval Medical Research Institute Toxicology Detachment.

Provide a source of personnel as advisors or consultants in the application of new biomedical technology to operational problems in diving, combat casualty care, and performance in extreme environments.

Manpower and Personnel:

Conduct basic and applied research on studies to measure and improve the work performance of Navy divers under operational conditions.

Provide a source of personnel as advisors or consultants in the application of new work performance measures to operational diving problems.

3.1 Location

3.1.1 **Geographic/Climatological Features:** Describe any geographic/climatological features in and around your activity that are relevant to each CSF. Indicate and justify those that are required versus those that just serve to enhance accomplishing the mission of the activity. For example, clear air at high altitude that increases quality of atmospheric, ground-based laser experiments in support of the weapons CSF. (BRAC Criteria I)

There are no geographic/climatological features that are relevant to any of the CSFs accomplished at this Command.

3.1.2 **Licenses & permits:** Describe and list the licenses or permits (e.g., environmental, safety, etc.) that your activity currently holds and justify why they are required to allow tests, experiments, or other special capabilities at your location for each CSF. For example, permit to store and use high explosives. (BRAC Criteria I)

Radiation Storage and Use Permit:

Radioactive materials are used in approximately 20% of the research work under the Infectious Diseases CSF and approximately 10% of the research work under the Human Systems CSF. Inability to use radioactive tracer methodology would severely restrict our ability to complete critical studies.

3.1.3 **Environmental constraints:** Describe and list the environmental or land use constraints present at your activity which limit or restrict your current scope for each CSF, i.e., would not allow increased "volume" or "spectrum" for the CSF. Example -- Volume: frequency of a type of experiment. Example -- Spectrum: Current permit to detonate high explosives will not allow detonation or storage of increased quantity of explosives without legal waiver (state law) or relocation of surrounding (non-govt) buildings. (BRAC Criteria II)

There are no environmental contraints that are relevant to any of the CSFs accomplished at this Command.

3.1.4 **Special Support Infrastructure:** List and describe the importance of any mission related special support infrastructure (e.g. utilities) present at your location for your activity. (BRAC Criteria I)

Infectious Diseases CSF:

Animal Housing Facility.

The use of animals is critical to studies on the development of vaccines and the testing of new treatment methods for infectious diseases.

Human Systems CSF:

Hyperbaric Chamber Facility.

The man-rated Hyperbaric Chamber Facility and an associated controlled environment pool are integral to all research work related to diving and hyperbaric medicine. None of this work can be accomplished without access to such a facility.

Animal Housing Facility.

Approximately 50% of both the diving research effort and the studies on blood preservation, blood substitutes, transplantation immunology, and combat casualty care are dependent on the use of small animal model systems.

Manpower and Personnel CSF:

Hyperbaric Chamber Facility.

The man-rated Hyperbaric Chamber Facility and an associated controlled environment pool are integral to all research related to work performance in diving operations. None of this work can be accomplished without access to such a facility.

3.1.5. **Proximity to Mission-Related organizations:** List and describe the importance and impact of not having nearby organizations which facilitate accomplishing or performing your mission -- e.g. operational units, FFRDCs, universities/colleges, other government organizations, and commercial activities. Restrict your response to the top five. Complete the following: (BRAC Criteria I)

Proximity to the other major DOD Infectious Disease research laboratory (Walter Reed Army Institute of Research (WRAIR)) is exceptionally advantageous in the operation of the Navy's Infectious Disease program. The other CSFs do not have any significant effects related to our proximity to other institutions.

Common Support Functions	Name	Type of Organization	Distance	Workyears Performed by Your Activity	Workyears Funded by Your Activity
Inf. Dis.	WRAIR	Government	5 Miles	89	89
Hum Syst	None				
M & P	None				

3.2 Personnel:

3.2.1 **Total Personnel:** What is the total number of government (military and civilian), on-site federally funded research and development center (FFRDC), and on-site system engineering technical assistance (SETA) personnel engaged in science and technology (S&T), engineering development and in-service engineering activities as of end FY93? For individuals that predominantly work in CSFs, involved in more than one CSF, account for those individuals in the CSF that represents the preponderance of their effort. (BRAC Criteria I)

Total Laboratory Staff:

Types of personnel	Number of Personnel			
	Government		On-Site FFRDC	On-Site SETA
	Civilian	Military		
Technical	115	195	0	0
Management (Supv)	8	10	0	0
Other	22	46	0	0

Infectious Diseases CSF:

Types of personnel	Number of Personnel			
	Government		On-Site FFRDC	On-Site SETA
	Civilian	Military		
Technical	42	48	0	0
Management (Supv)	2	1	0	0
Other	2	7	0	0

Human Systems CSF:

Types of personnel	Number of Personnel			
	Government		On-Site FFRDC	On-Site SETA
	Civilian	Military		
Technical	71	141	0	0
Management (Supv)	3	2	0	0
Other	9	7	0	0

Manpower and Personnel CSF:

Types of personnel	Number of Personnel			
	Government		On-Site FFRDC	On-Site SETA
	Civilian	Military		
Technical	2	6	0	0
Management (Supv)	0	1	0	0
Other	0	0	0	0

3.2.2 **Education:** What is the number of government personnel actively engaged in S&T, engineering development and in-service engineering activities by highest degree and type of position? Provide the data in the following table: (BRAC Criteria I)

Total Laboratory Staff:

Type of Degree/ Diploma	Number of Government Personnel by Type of Position		
	Technical	Management (Supv)	Other
High School or Less	150	0	63
Associates	0	0	0
Bachelor	62	3	2
Masters	24	3	3
Doctorate (include Med/Vet/etc.)	74	12	0

Infectious Diseases CSF:

Type of Degree/ Diploma	Number of Government Personnel by Type of Position		
	Technical	Management (Supv)	Other
High School or Less	20	0	9
Associates	0	0	0
Bachelor	30	0	0
Masters	5	0	0
Doctorate (include Med/Vet/etc.)	35	3	0

Human Systems CSF:

Type of Degree/ Diploma	Number of Government Personnel by Type of Position		
	Technical	Management (Supv)	Other
High School or Less	126	0	54
Associates	0	0	0
Bachelor	34	1	2
Masters	21	1	3
Doctorate (include Med/Vet/etc.)	40	3	0

Manpower and Personnel CSF:

Type of Degree/ Diploma	Number of Government Personnel by Type of Position		
	Technical	Management (Supv)	Other
High School or Less	4	0	0
Associates	0	0	0
Bachelor	0	0	0
Masters	0	0	0
Doctorate (include Med/Vet/etc.)	4	1	0

3.2.3 **Experience:** What is the experience level of government personnel? Fill in the number of government personnel in the appropriate boxes of the following table. (BRAC Criteria I)

Total Laboratory Staff:

Type of Position	Years of Government and/or Military Service				
	Less than 3 years	3-10 years	11-15 years	16-20 years	More than 20 years
Technical	54	93	63	65	32
Management (Supv)	0	2	1	4	11
Total	66	116	78	83	50

Infectious Diseases CSF:

Type of Position	Years of Government and/or Military Service				
	Less than 3 years	3-10 years	11-15 years	16-20 years	More than 20 years
Technical	15	27	18	18	12
Management (Supv)	0	0	0	1	2
Total	16	32	18	22	14

Human Systems CSF:

Type of Position	Years of Government and/or Military Service				
	Less than 3 years	3-10 years	11-15 years	16-20 years	More than 20 years
Technical	36	63	43	47	20
Management (Supv)	0	0	0	2	3
Total	38	73	44	52	23

Manpower and Personnel CSF:

Type of Position	Years of Government and/or Military Service				
	Less than 3 years	3-10 years	11-15 years	16-20 years	More than 20 years
Technical	3	3	2	0	0
Management (Supv)	0	0	0	1	0
Total	3	3	2	1	0

3.2.4 **Accomplishments During FY91-93:** For government personnel answer the following questions.

3.2.4.1 How many patents were awarded and patent disclosures (only count disclosures with issued disclosure numbers) were made? (BRAC Criteria I)

CSF	Disclosures	Awarded	Patent Titles (List)
Infectious Diseases	2	2	Information follows
Total			

ISSUED PATENTS AND SIR'S

Number Inventor Issue Date
Title

5,095,093 Hoffman et al. March 10, 1992 72,634
Protective Four Amino Acid Epitope Against Plasmodium Vivax Malaria

5,198,535 Hoffman et al. March 30, 1993 73,254
Protective Malaria Sporozoite Surface Protein Immunogen and Gene

CSF	Disclosures	Awarded	Patent Titles (List)
Human Systems	6	6	Information follows
Total			

ISSUED PATENTS AND SIR'S

Number Inventor Issue Date
Title

5,039,493 Oprandy August 13, 1991 71,885
Positive Pressure Blotting apparatus with Hydropholic Filter Means

5,093,235 Williams et al. March 3, 1992 70,664
Immuno-Dye Reagent and Assay for Detection of Endotoxin

5,162,990 Odeyale et al. November 10, 1992 72,807
System and Method for Quantifying Macrophage Phagocytosis by Computer Image Analysis

5,200,312 Oprandy April 6, 1993 74,163
Membrane Based Dot Immunoassay and Method of Use

(SIR) H1168 McKenna et al. April 6, 1994 73,588
Inhibitors of Protein Kinase C Activity as Protectors Against Septic Shock and Reducers of ARDS

5,299,567 Joye et al. April 5, 1994 78,870
Minimal Elastance, Closed-Circuit Underwater Breathing Apparatus

There were no Patents or SIRs awarded under the Manpower and Personnel CSF.

3.2.4.2 How many papers were published in peer reviewed journals? (BRAC Criteria I)

CSF	Number Published	Paper Titles (List)
Infectious Diseases	151	Information Follows
TOTAL	151	

NMRI 91-0002
CHAROENVIT Y MELLOUK S COLE C
BECHARA R LEEF MF SEDEGAH M
YUAN LF ROBEY FA BEAUDOIN RL
HOFFMAN SL
MONOCLONAL, BUT NOT POLYCLONAL, ANTIBODIES PROTECT AGAINST PLASMODIUM YOELII SPOROZOITES.
JOURNAL OF IMMUNOLOGY 1991 FEB.1;146(3):1020-5

NMRI 91-0010
HYAMS KC HUSSAIN MA AL-ARABI MA
AL-HUDA ATALLAH N EL-TIGANI A MCCARTHY MC
ACUTE SPORADIC HEPATITIS IN SUDANESE CHILDREN.
JOURNAL OF MEDICAL VIROLOGY 1991 FEB;33(2):73-6

NMRI 91-0011
HOFFMAN SL
PREVENTION OF MALARIA. (EDITORIAL).
JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION 1991 JAN 16; 265(3):398-9

NMRI 91-0012
PHILLIPS I HYAMS KC WIGNALL FS
MORAN AY GOTUZZO E SANCHEZ J
ROBERTS CR
HTLV-I COINFECTION IN A HIV-1-INFECTED PERUVIAN POPULATION. (LETTER).
JOURNAL OF ACQUIRED IMMUNE DEFICIENCY SYNDROMES 1991;4(3): 301-2

NMRI 91-0013
NEED JT ESCAMILLA J
LYME DISEASE IN SOUTH AMERICA? (LETTER).
JOURNAL OF INFECTIOUS DISEASES 1991 MAR;163(3):681-2

NMRI 91-0018
CHAROENVIT Y COLLINS WE JONES TR
MILLET P YUAN L CAMPBELL GH
BEAUDOIN RL BRODERSON JR HOFFMAN SL
INABILITY OF MALARIA VACCINE TO INDUCE ANTIBODIES TO A PROTECTIVE EPITOPE WITHIN ITS SEQUENCE.
SCIENCE 1991 FEB 8;251(4994):668-71

NMRI 91-0020
SIECKMANN DG STALL AM SUBBARAO B
A MOUSE MONOCLONAL ANTIBODY SPECIFIC FOR AN ALLOTYPIC DETERMINANT OF THE IGHA ALLELE OF MURINE IGM: GENETIC

AND FUNCTIONAL ANALYSIS OF IGH-6A EPITOPES USING ANTI-IGM MONOCLONAL ANTIBODIES.
HYBRIDOMA 1991 FEB;10(1):121-35

NMRI 91-0029
HOFFMAN SL NUSSENZWEIG V SADOFF JC
NUSSENZWEIG RS
PROGRESS TOWARD MALARIA PREERYTHROCYTIC VACCINES.
SCIENCE 1991 APR 26;252(5005):520-1

NMRI 91-0030
RICKMAN LS GORDON DM WISTAR R JR
KRZYCH U GROSS M HOLLINGDALE MR
EGAN JE CHULAY JD HOFFMAN SL
USE OF ADJUVANT CONTAINING MYCOBACTERIAL CELL-WALL SKELETON, MONOPHOSPHORYL LIPID A, AND SQUALANE IN MALARIA CIRCUMSPOROZOITE PROTEIN VACCINE.
LANCET 1991 APR 27;337(8748):998-1001

NMRI 91-0031
MALIK A EGAN JE HOUGHTEN RA
SADOFF JC HOFFMAN SL
HUMAN CYTOTOXIC T_LYMPHOCYTES AGAINST THE PLASMODIUM_ FALCIPARUM CIRCUMSPOROZOITE PROTEIN.
PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCE 1991 APR 15; 88(8):3300-4

NMRI 91-0032
WEISS E
BIOLOGY OF EHRLICHIAE.
EUROPEAN JOURNAL OF EPIDEMIOLOGY 1991 MAY;7(3):253-8

NMRI 91-0037
KHUSMITH S CHAROENVIT Y KUMAR S
SEDEGAH M BEAUDOIN RL HOFFMAN SL
PROTECTION AGAINST MALARIA BY VACCINATION WITH SPOROZOITE SURFACE PROTEIN_2 PLUS CS_PROTEIN.
SCIENCE 1991 MAY 3;252(5006):715-8

NMRI 91-0038
PAVLOVSKIS OR ROLLINS DM HABERBERGER RL
GREEN AE HABASH L STROCKO S
WALKER RI
SIGNIFICANCE OF FLAGELLA IN COLONIZATION RESISTANCE OF RABBITS IMMUNIZED WITH CAMPYLOBACTER SPP.
INFECTION AND IMMUNITY 1991 JUL;59(7):2259-64

NMRI 91-0042
KAIN KC KEYSTONE J FRANKE ED
LANAR DE
GLOBAL DISTRIBUTION OF A VARIANT OF THE CIRCUMSPOROZOITE
GENE OF PLASMODIUM_VIVAX.
JOURNAL OF INFECTIOUS DISEASES 1991 JUL;164(1):208-10

NMRI 91-0045
OLDFIELD EC III WALLACE MR HYAMS KC
YOUSIF AA LEWIS DE BOURGEOIS AL
ENDEMIC INFECTIOUS DISEASES OF THE MIDDLE EAST.
REVIEWS OF INFECTIOUS DISEASES 1991 JAN-FEB;13(SUPPL.3):
S199-217

NMRI 91-0046
PAZZAGLIA G SACK RB SALAZAR E
YI A CHEA E LEON-BARUA R
GUERRERO CE PALOMINO J
HIGH FREQUENCY OF COINFECTING ENTEROPATHOGENS IN AEROMONAS-
ASSOCIATED DIARRHEA OF HOSPITALIZED PERUVIAN INFANTS.
JOURNAL OF CLINICAL MICROBIOLOGY 1991 JUN;29(6):1151-6

NMRI 91-0047
HABERBERGER RL MIKHAIL IA BURANS JP
HYAMS KC GLENN JC DINIEGA BM
SORGEN S MANSOUR N BLACKLOW NR
WOODY JN
TRAVELERS' DIARRHEA AMONG UNITED STATES MILITARY PERSONNEL
DURING JOINT AMERICAN-EGYPTIAN ARMED FORCES EXERCISES IN
CAIRO, EGYPT.
MILITARY MEDICINE 1991 JAN;156(1):27-30

NMRI 91-0048
PAPARELLO SF RICKMAN LS MESBAHI HN
WARD JB SIOJO LG HAYES CG
EPIDEMIC KERATOCONJUNCTIVITIS AT A U.S. MILITARY BASE:
REPUBLIC OF THE PHILIPPINES.
MILITARY MEDICINE 1991 MAY;156(5):256-9

NMRI 91-0050
MIRANDA ME WHITE ME DAYRIT MM
HAYES CG KSIAZEK TG BURANS JP
SEROEPIDEMIOLOGICAL STUDY OF FILOVIRUS RELATED TO EBOLA IN
THE PHILIPPINES.
LANCET 1991 FEB 16;337(8738):425-6

NMRI 91-0053
WU SJ PACHECO ND OPRANDY JJ
ROLLWAGEN FM
IDENTIFICATION OF CAMPYLOBACTER JEJUNI AND CAMPYLOBACTER COLI ANTIGENS WITH MUCOSAL AND SYSTEMIC ANTIBODIES.
INFECTION AND IMMUNITY 1991 AUG;59(8):2555-9

NMRI 91-0057
FRANKE ED LUCAS CM ROMAN ES
ANTIBODY RESPONSE OF HUMANS TO THE CIRCUMSPOROZOITE PROTEIN OF PLASMODIUM VIVAX.
INFECTION AND IMMUNITY 1991 AUG;59(8):2836-8

NMRI 91-0063
GUERRY P ALM RA POWER ME
LOGAN SM TRUST TJ
ROLE OF TWO FLAGELLIN GENES IN CAMPYLOBACTER MOTILITY.
JOURNAL OF BACTERIOLOGY 1991 AUG;173(15):4757-64

NMRI 91-0065
LONG GW JONES TR RICKMAN LS
TRIMMER R HOFFMAN SL
ACRIDINE ORANGE DETECTION OF PLASMODIUM FALCIPARUM MALARIA: RELATIONSHIP BETWEEN SENSITIVITY AND OPTICAL CONFIGURATION.
AMERICAN JOURNAL OF TROPICAL MEDICINE AND HYGIENE 1991 APR; 44(4):402-5

NMRI 91-0066
MELLOUK S GREEN SJ NACY CA
HOFFMAN SL
IFN-GAMMA INHIBITS DEVELOPMENT OF PLASMODIUM BERGHEI EXOERYTHROCYTIC STAGES IN HEPATOCYTES BY AN L-ARGININE-DEPENDENT EFFECTOR MECHANISM.
JOURNAL OF IMMUNOLOGY 1991 JUN 1;146(11):3971-6

NMRI 91-0067
JONES TJ DAVIS MJ HOFFMAN SL
IMMUNOLOGY, PATHOPHYSIOLOGY, AND TREATMENT OF MALARIA.
CURRENT OPINION IN INFECTIOUS DISEASES 1991;4:265-72

NMRI 91-0070
SIECKMANN DG
MONOCLONAL ANTIBODY DS1, ANTI-MOUSE IGMA ALLOTYPE.
MONOCLONAL ANTIBODIES 1991;9(2):33-4

NMRI 91-0072
CACERES C GOTUZZO E WIGNALL S
CAMPOS M
COMPORTAMIENTO SEXUAL Y SEROPREVALENCIA DEL VIRUS DE LA INMUNODEFICIENCIA HUMANA TIPO 1 EN VARONES HOMOSEXUALES PERUANOS.
BOLETIN DE LA OFICINA SANITARIA PANAMERICANA 1991;111(3): 218-30

NMRI 91-0074
NEED JT DALE WE KEIRANS JE
DASCH GA
ANNOTATED LIST OF TICKS (ACARI: IXODIDAE, ARGASIDAE) REPORTED IN PERU: DISTRIBUTION, HOSTS, AND BIBLIOGRAPHY.
JOURNAL OF MEDICAL ENTOMOLOGY 1991 SEP;28(5):590-7

NMRI 91-0076
HABERBERGER RL JR MIKHAIL IA ISMAIL TF
ENTERITIS DUE TO MULTIRESISTANT ENTEROADHERENT ESCHERICHIA COLI. (LETTER).
LANCET 1991 JAN 26;337:235-6

NMRI 91-0077
BAIRD JK JONES TR PURNOMO
MASBAR S RATIWAYANTO S LEKSANA B
EVIDENCE FOR SPECIFIC SUPPRESSION OF GAMETOCYTEMIA BY PLASMODIUM FALCIPARUM IN RESIDENTS OF HYPERENDEMIC IRIAN JAYA.
AMERICAN JOURNAL OF TROPICAL MEDICINE AND HYGIENE 1991 FEB; 44(2):183-90

NMRI 91-0080
BAIRD JK BASRI H PURNOMO
BANGS MJ SUBIANTO B PATCHEN LC
HOFFMAN SL
RESISTANCE TO CHLOROQUINE BY PLASMODIUM VIVAX IN IRIAN JAYA, INDONESIA.
AMERICAN JOURNAL OF TROPICAL MEDICINE AND HYGIENE 1991 MAY; 44(5):547-52

NMRI 91-0081
PAZZAGLIA G PODGORE J MERCADO W
MARTINEZ A URTEAGA A ECHEVARRY E
THE ETIOLOGY OF CHILDHOOD DIARRHEA IN NORTHERN COASTAL PERU: THE 1989 FUERZAS UNIDAS HUMANITARIAN CIVIC ACTION --A MODEL FOR INTERNATIONAL AND INTERSERVICE COOPERATION, COMMUNITY SERVICE, AND SCIENTIFIC OPPORTUNITY.

MILITARY MEDICINE 1991 AUG;156(8):402-5

NMRI 91-0082
RICHARDS AL HYAMS KC MERRELL BR
DASCH GA WOODY JN KSIAZEK TG
LEDUC JW WATTS DM
MEDICAL ASPECTS OF OPERATION DESERT STORM. (LETTER).
NEW ENGLAND JOURNAL OF MEDICINE 1991 SEP 26:970

NMRI 91-0089
PAZZAGLIA G ESCAMILLA J BATCHELOR R
THE ETIOLOGY OF DIARRHEA AMONG AMERICAN ADULTS LIVING IN PERU.
MILITARY MEDICINE 1991 SEP;156(9):484-7

NMRI 91-0094
PORTER KR POLO SL LONG GW
MERRITT SC OPRANDY JJ
A RAPID MEMBRANE-BASED VIRAL RNA ISOLATION METHOD FOR THE POLYMERASE CHAIN REACTION.
NUCLEIC ACIDS RESEARCH 1991 JUL 25;19(14):4011

NMRI 91-0095
WEISS E WILLIAMS JC THOMPSON HA
THE PLACE OF COXIELLA BURNETII IN THE MICROBIAL WORLD.
IN: Q FEVER: THE BIOLOGY OF COXIELLA BURNETII. EDITORS: JIM C. WILLIAMS AND HERBERT A. THOMPSON. BOCA RATON, CRC, 1991. PP.1-19

NMRI 91-0096
WEISS E STRAUSS BS
THE LIFE AND CAREER OF HOWARD TAYLOR RICKETTS.
REVIEWS OF INFECTIOUS DISEASES 1991 NOV-DEC;13(6):1241-2

NMRI 91-0097
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AHLERS ST SHURTLEFF D SCHROT J
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JOURNAL OF IMMUNOLOGY 1993 APR 15;150(8):3109-18

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JOURNAL OF EXPERIMENTAL MEDICINE 1993 JUNE;177:1613-21

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MILLAR DB THOMAS JR PACHECO ND
ROLLWAGEN FM
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BRAIN, BEHAVIOR, AND IMMUNITY 1993;7:144-53

NMRI 93-0056
BALL R
EFFECT OF SEVERITY, TIME TO RECOMPRESSION WITH OXYGEN, AND RE-TREATMENT ON OUTCOME IN FORTY-NINE CASES OF SPINAL CORD DECOMPRESSION SICKENESS.
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LIPOPOLYSACCHARIDE DETOXIFICATION BY ENDOTOXIN NEUTRALIZING PROTEIN.
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NMRI 93-0063
WALLACE W AHLERS ST GOTLIB J
BRAGIN V SUGAR J GLUCK R
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PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES 1993 SEP; 90:8712-6

NMRI 93-0064
WEINSTEIN SL JUNE CH DEFRANCO AL
LIPOPOLYSACCHARIDE-INDUCED PROTEIN TYROSINE PHOSPHORYLATION IN HUMAN MACROPHAGES IS MEDIATED BY CD14.
JOURNAL OF IMMUNOLOGY 1993 OCT 1;151(7):3829-38

NMRI 93-0065
LINDSTEN T LEE KP HARRIS ES
PETRYNIAK B CRAIGHEAD N REYNOLDS PJ
LOMBARD DB FREEMAN GJ NADLER LM
GRAY GS THOMPSON CB JUNE CH
CHARACTERIZATION OF CTLA-4 STRUCTURE AND EXPRESSION ON HUMAN T_CELLS.
JOURNAL OF IMMUNOLOGY 1993 OCT 1; 151(7):3489-99

NMRI 93-0066
BODINE DM MORITZ T DONAHUE RE
LUSKEY BD KESSLER SW MARTIN DI
ORKIN SH NIENHUIS AW WILLIAMS DA
LONG-TERM IN_VIVO EXPRESSION OF A MURINE ADENOSINE DEAMINASE GENE IN RHESUS MONKEY HEMATOPOIETIC CELLS OF MULTIPLE LINEAGES AFTER RETROVIRAL MEDIATED GENE TRANSFER INTO CD34+ BONE MARROW CELLS.
BLOOD 1993 OCT 1;82(7):1975-80

Manpower and Personnel CSF:

NAVAL MEDICAL RESEARCH INSTITUTE	Fiscal Year 1993 Actual			
	Civilian	Military	FFRDC	SETA
Science & Technology	2	7	0	0
Engineering Development	0	0	0	0
In-Service Engineering	0	0	0	0

3.3.1.2 **Engineering Development By ACAT:** For each Common Support Function (e.g. airborne C4I) at each activity engaged in engineering development, provide:

- For each ACAT IC, ID, and II program (as defined in DODI 5000.2):
  - The name of the program
  - A brief program description
- For each ACAT III and IV programs:
  - The number of such programs
  - A list of program names
- For each program not an ACAT I, II, III, IV:
  - The number of such programs
  - A list of program names
- For the purpose of this question, any program between Milestone I and IV and containing demonstration and validation (Dem/Val 6.4)/Engineering and Manufacturing Development (EMD 6.5) funds in the FY95 PBS is considered to be engaged in engineering development (BRAC Criteria I).

The Naval Medical Research Institute does not carry out any Engineering Development programs.

3.3.1.3 **In-Service Engineering:** For each Common Support Function at each activity engaged in in-service engineering, list the in-service engineering efforts, the FY93 funds (from all sources) obligated for these efforts, the FY93 workyears for these efforts, and the weapon system(s) supported by these efforts. In-service engineering consists of all engineering support of fielded and/or out of production systems and includes efforts to improve cost, throughput, and schedule to support customer requirements as well as mods and upgrades for reliability, maintainability, and performance enhancements. (BRAC Criteria I)

The Naval Medical Research Institute does not engage in In-Service engineering efforts.

INDEPENDENT OF CD45 EXPRESSION.
JOURNAL OF BIOLOGICAL CHEMISTRY 1993 NOV 5;268(31):
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LUM LG JOSHI ID GALOFORO SC
ABELLA E KARANES C RATANATHARATHORN V
SCHULTZ KR UBERTI JP SENSENBRENNER LL
LEDBETTER JA JUNE CH
COACTIVATION WITH ANTI-CD28 MONOCLONAL ANTIBODY ENHANCES
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IL-2 SYNTHESIS IN T_CELLS FROM AUTOLOGOUS BONE MARROW
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BONE MARROW TRANSPLANTATION 1993;12:565-71

NMRI 93-0101
SILVA MR KESSLER S ASCENSAO JL
HEMATOPOIETIC ORIGIN OF HUMAN NATURAL KILLER (NK) CELLS:
GENERATION FROM IMMATURE PROGENITORS.
PATHOBIOLOGY 1993;61:247-55

NMRI 93-0102
SNAPPER CM YAMAGUCHI H MOORMAN MA
SNEED R SMOOT D MOND JJ
NATURAL KILLER CELLS INDUCE ACTIVATED MURINE_B CELLS TO
SECRETE IG.
JOURNAL OF IMMUNOLOGY 1993 NOV.15;151(10):5251-60

NMRI 93-0103
COLTON JS GROSSMAN Y MILLER K
POCOTTE SL
EVALUATION OF A HYPERBARIC SYSTEM TO BE USED IN CONJUNCTION
WITH A FLUOROMETER.
UNDERSEA & HYPERBARIC MEDICINE 1993;20(4):375-82

There are no publications to be listed separately under the Manpower and Personnel CSF. Publications for this area included in the Human Systems listings due to the overlapping nature of this work.

NMRI 93-0076
ABE R KOZAK CA FOO-PHILLIPS M
ROBERTS J PRINCIPATO MA
INVOLVEMENT OF MULTIPLE FACTORS IN THE CLONAL DELETION OF SELF-REACTIVE T_CELLS.
CELLULAR IMMUNOLOGY 1993;151:425-36

NMRI 93-0080
LEE CH WASOWICZ K BROWN R
MAJANE EA YANG HY PANULA P
DISTRIBUTION AND CHARACTERIZATION OF NEUROPEPTIDE FF-LIKE IMMUNOREACTIVITY IN THE RAT NERVOUS SYSTEM WITH A MONOCLONAL ANTIBODY.
EUROPEAN JOURNAL OF NEUROSCIENCE 1993;5:1339-48

NMRI 93-0082
ODYA CE YAPA R SOLTANI-TEHRANI B
CARLIN RJ LEE CH
MONOCLONAL LIGAND BINDING SITE RELATED ANTI-IDIOTYPIC ANTIBODIES ELICITED WITH A POLYCLONAL KININ ANTIBODY.
HYBRIDOMA 1993;12(1):45-53

NMRI 93-0083
YUI K ISHIDA Y KATSUMATA M
KOMORI S CHUSED TM ABE R
TWO SEPARATE MECHANISMS OF T_CELL CLONAL ANERGY TO MLS-1A.
JOURNAL OF IMMUNOLOGY 1993 DEC 1;151(11):6062-75

NMRI 93-0084
HARFORD RR REED HL MORRIS MT
SAPIEN IE WARDEN R D'ALESANDRO MM
RELATIONSHIP BETWEEN CHANGES IN SERUM THYROTROPIN AND TOTAL AND LIPOPROTEIN CHOLESTEROL WITH PROLONGED ANTARCTIC RESIDENCE.
METABOLISM 1993 SEP;42(9):1159-63

NMRI 93-0085
SIEGEL JN JUNE CH YAMADA H RAPP UR SAMELSON LE
RAPID ACTIVATION OF C-RAF-1 AFTER STIMULATION OF THE T-CELL RECEPTOR OR THE MUSCARINIC RECEPTOR TYPE_1 IN RESTING T_CELLS.
JOURNAL OF IMMUNOLOGY 1993 OCT 15;151(8):4116-27

NMRI 93-0091
FLETCHER MC SAMELSON LE JUNE CH
COMPLEX EFFECTS OF PHENYLARSINE OXIDE IN T_CELLS: INDUCTION OF TYROSINE PHOSPHORYLATION AND CALCIUM MOBILIZATION

3.3 Workload

3.3.1 FY93 Workload

3.3.1.1 **Work Year and Lifecycle:** Identify the number of actual workyears executed for each applicable CSF in FY93 for each of the following: government civilian; military; on-site FFRDCs; and on-site SETAs. (BRAC Criteria I)

Infectious Diseases CSF:

NAVAL MEDICAL RESEARCH INSTITUTE	Fiscal Year 1993 Actual			
	Civilian	Military	FFRDC	SETA
Science & Technology	46	56	0	0
Engineering Development	0	0	0	0
In-Service Engineering	0	0	0	0

Human Systems CSF:

NAVAL MEDICAL RESEARCH INSTITUTE	Fiscal Year 1993 Actual			
	Civilian	Military	FFRDC	SETA
Science & Technology	83	150	0	0
Engineering Development	0	0	0	0
In-Service Engineering	0	0	0	0

3.3.2 Projected Funding

3.3.2.1 **Direct Funding:** For each applicable CSF, identify direct mission funding by appropriation from FY94 to FY97. Use FY95 PBS for FY95-FY97. (BRAC Criteria I)

CSF	FY94	FY95	FY96	FY97
Infectious Diseases	$9,709,000	$10,000,300	$10,300,300	$10,609,300

CSF	FY94	FY95	FY96	FY97
Human Systems	$51,183,800	$50,720,300	$51,844,000	$52,959,800

CSF	FY94	FY95	FY96	FY97
Manpower and Personnel	$919,000	$1,084,000	$1,100,000	$1,155,000

3.3.2.2 **Other Obligation Authority:** For each applicable CSF, identify reimbursable and direct-cite funding (other obligation authority expected) from FY94 to FY97. Funding allocation must be traceable to FY95 PBS. (BRAC Criteria I)

The Naval Medical Research Institute does not have any other obligational authority which is specifically programmed beyond FY94 except for BUMED O&M,N support for toxicological studies.

CSF	FY94	FY95	FY96	FY97
Infectious Diseases	$373,500	0	0	0

CSF	FY94	FY95	FY96	FY97
Human Systems	$750,000	$752,000	$784,000	$801,000

CSF	FY94	FY95	FY96	FY97
Manpower and Personnel	0	0	0	0

3.4 Facilities and Equipment

3.4.1 **Major Equipment and Facilities:** Describe major facilities and equipment necessary to support each Common Support Function (include SCIFs). If the facilities and equipment are shared with other functions, identify those functions and the percentage of total time used by each of the functions. Provide labeled photographs that picture the breadth and scope of the equipment and facilities described. If it is unique to DOD, to the Federal Government, or to the US, describe why it is unique. Insert the replacement cost. For this exercise, Replacement cost = (Initial cost + capital investment) multiplied by the inflation factor for the original year of construction. (BRAC Criteria II)

Infectious Diseases CSF:

The Infectious Diseases work is carried out in the Command's primary laboratory on the National Naval Medical Center (NNMC), a leased Annex in Rockville, MD, and in the laboratory of the Detachment in Lima, Peru. The laboratory facility on the NNMC is shared with a large portion of the Human Systems CSF, while the Rockville Annex building is used entirely by the Infectious Diseases CSF. The facility in Lima, Peru is shared with the Peruvian Navy, on whose Lima base it is situated. The work carried out under this CSF does not require any special major equipment or facilities.

Human Systems CSF:

Research on Human Systems is carried out at the Command's facilities on the NNMC in Bethesda, MD, and is shared with both the Infectious Diseases CSF and the Manpower and Personnel CSF. Two major special facilities are used in support of this area, a Man-rated Diving Chamber complex, and a facility for the production of cell free Hemoglobin from outdated human red cells. The Diving Chamber facility was built in 1980 at a cost of more than $20 million, and has historically supported approximately 456 manned dives per year, ranging in depths from 5 to 1000 feet of sea water. The Hemoglobin production facility was recently moved to Bethesda from the Letterman Army Institute of Research in conjunction with the BRAC designated closure of the Presidio in San Francisco and its directed consolidation of all Blood Research Programs at the Naval Medical Research Institute.

Common Support Function	Major Facility or Equipment Description	Unique To			Replacement Cost ($K)
		DOD	Federal Gov't	U. S.	
Human Systems	Man-Rated Diving Chamber Complex				$30,000,000
Human Systems	Hemoglobin Production Facility	Yes			$1,000,000

Manpower and Personnel CSF:

Research in the Manpower and Personnel CSF is carried out in the same spaces and uses the same equipment as the Diving Research portion of the Human Systems CSF. It is particularly dependent on the use of the Man-Rated Diving Chamber Complex described above.

3.5 Expansion Potential

3.5.1 **Laboratory Facilities:** Use facilities records as of fourth-quarter FY93 in answering the following (in sq ft) for each CSF: (BRAC Criteria II)

Common Support Function	Facility or Equipment Description	Type of Space*	Space Capacity (KSF)		
			Current	Used	Excess
Infectious Diseases		Tecnical	18,485	18,485	0
		Administrative	3,120	3,120	0
		Storage	5,880	5,880	0

* Administrative, Technical, Storage, Utility

Common Support Function	Facility or Equipment Description	Type of Space*	Space Capacity (KSF)		
			Current	Used	Excess
Human Systems		Tecnical	48,509	48,509	0
		Administrative	7,964	7,964	0
		Storage	15,928	15,928	0

* Administrative, Technical, Storage, Utility

Space for the Manpower and Personnel CSF is included within the space of the Human Systems CSF, as the programs' spaces significantly overlap.

3.5.1.1 Describe the capacity of your activity to absorb additional similar workyears categorized in the same common support function with minor facility modification. If major modification is required, describe to what extent the facilities would have to be modified. (Use FY97 workyears as your requirement) (BRAC Criteria III)

The Naval Medical Research Institute has no real capacity for expansion to absorb additional workyears in the CSFs in which we currently engage. The Command presently makes use of leased spacein two separate locations to accomodate current staff. Major modifications proposed in an earlier BRAC study which led top the consolidation of all DOD Blodd Research Activity at our Command included the construction of a new Animal Facility ($9 Million) and a Blood Research Facility ($9 Million). An alternative to purchase an existing building to meet these needs has also been considered, with no definate decision made as yet.

3.5.1.2 If there is capacity to absorb additional workyears, how many additional workyears can be supported? (BRAC Criteria III)

There is no capacity for absorbing additional work under current conditions.

3.5.1.3 For 3.5.1.1 and 3.5.1.2 (above) describe the impact of military construction programs or other alteration projects programmed in the FY95 PBS. (BRAC Criteria II)

There are no MILCON Projects programmed.

3.5.2 **Land Use:** Provide number of buildable acres for additional laboratory/administrative support construction at your installation. (BRAC Criteria II)

There is little or no capacity for further expansion on the National Naval Medical Center grounds. The original construction proposed for the the BRAC realignment of the Blood Research efforts utilized the last available sites on the Compound.

3.5.3 **Utilities:** Provide an estimate of your installation's capability to expand or procure additional utility services (electric, gas, water). Estimates should be provided in appropriate units -- e.g. KWH of electricity. (BRAC Criteria II)

The Naval Medical Research Institute is currently functioning at maximum capacity, with no possible additional utility service being available without a significant modifications for added service.

BRAC-95 CERTIFICATION

Reference: SECNAVNOTE 11000 of 8 December 1993

In accordance with policy set forth by the Secretary of the Navy, personnel in the Department of the Navy, uniformed and civilian, who provide information for use in the BRAC-95 process are required to provide signed certification that states "I certify that the information contained herein is accurate and complete to the best of my knowledge and belief."

The signing of this certification constitutes a representation that the certifying official has reviewed the information and either (1) personally vouches for its accuracy and completeness or (2) has possession of, and is relying upon, a certification executed by a competent subordinate.

Each individual in your activity generating information for the BRAC-95 process must certify that information. Enclosure (1) is provided for individual certifications and may be duplicated as necessary. You are directed to maintain those certifications at your activity for audit purposes. For purposes of this certification sheet, the commander of the activity will begin the certification process and each reporting senior in the Chain of Command reviewing the information will also sign this certification sheet. This sheet must remain attached to the package and be forwarded up the Chain of Command. Copies must be retained by each level in the Chain of Command for audit purposes.

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

ACTIVITY COMMANDER

R. G. WALTER, CAPT, DC, USN
NAME (Please type or Print)

R. G. Walter
Signature

Commanding Officer
Title

16 Sept 94
Date

Naval Medical Research Institute
Activity

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

NEXT ECHELON LEVEL (if applicable)

T. N. JONES, CAPT, MSC, USN

NAME (Please type or print)

Signature

COMMANDING OFFICER

Title

Date 19 Sept 94

NAVAL MEDICAL RESEARCH & DEVELOPMENT COMMAND

Activity

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

NEXT ECHELON LEVEL (if applicable)

NAME (Please type or print)

Signature

Title

Date

Activity

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

MAJOR CLAIMANT LEVEL

D. F. HAGEN, VADM,MC,USN

NAME (Please type or print)

Signature

CHIEF BUMED/SURGEON GENERAL

Title

Date 9-19-94

BUREAU OF MEDICINE AND SURGERY

Activity

Data Call 12 BUMED
NMRI _ Revision

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

DEPUTY CHIEF OF NAVAL OPERATIONS (LOGISTICS)
DEPUTY CHIEF OF STAFF (INSTALLATIONS & LOGISTICS)

W. A. EARNER

NAME (Please type or print)

Signature

9/30/94

Title

Date

Document Separator

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DATA CALL 66
INSTALLATION RESOURCES

Activity Information:

Activity Name:	Naval Medical Research Institute
UIC:	64223
Host Activity Name (if response is for a tenant activity):	~~None.~~ National Naval Medical Center Bethesda, MD VR Burnett 824 7/29/94
Host Activity UIC:	00168

General Instructions/Background. A separate response to this data call must be completed for each Department of the Navy (DON) host, independent and tenant activity which separately budgets BOS costs (regardless of appropriation), and, is located in the United States, its territories or possessions.

1. Base Operating Support (BOS) Cost Data. Data is required which captures the total annual cost of operating and maintaining Department of the Navy (DON) shore installations. Information must reflect FY 1996 budget data supporting the FY 1996 NAVCOMPT Budget Submit. Two tables are provided. Table 1A identifies "Other than DBOF Overhead" BOS costs and Table 1B identifies "DBOF Overhead" BOS costs. These tables must be completed, as appropriate, for all DON host, independent or tenant activities which separately budget BOS costs (regardless of appropriation), and, are located in the United States, its territories or possessions. Responses for DBOF activities may need to include both Table 1A and 1B to ensure that all BOS costs, including those incurred by the activity in support of tenants, are identified. If both table 1A and 1B are submitted for a single DON activity, please ensure that no data is double counted (that is, included on both Table 1A and 1B). The following tables are designed to collect all BOS costs currently budgeted, regardless of appropriation, e.g., Operations and Maintenance, Research and Development, Military Personnel, etc. Data must reflect FY 1996 and should be reported in thousands of dollars.

a. Table 1A - Base Operating Support Costs (Other Than DBOF Overhead). This Table should be completed to identify "Other Than DBOF Overhead" Costs. Display, in the format shown on the table, the O&M, R&D and MPN resources currently budgeted for BOS services. O&M cost data must be consistent with data provided on the BS-1 exhibit. Report only direct funding for the activity. Host activities should not include reimbursable support provided to tenants, since tenants will be separately reporting these costs. Military personnel costs should be included on the appropriate lines of the table. Please ensure that individual lines of the table do not include duplicate costs. Add additional lines to the table (following line 2j., as necessary, to

ENCL (1)

identify any additional cost elements not currently shown). **Leave shaded areas of table blank.**

Table 1A - Base Operating Support Costs (Other Than DBOF Overhead)			
Activity Name: Naval Medical Research Inst.		UIC: 64223	
Category	FY 1996 BOS Costs ($000)		
	Non-Labor	Labor	Total
1. Real Property Maintenance Costs:			
1a. Maintenance and Repair	385,000	000,000	385,000
1b. Minor Construction	745,000	000,000	745,000
1c. Sub-total 1a. and 1b.	1,130,000	000,000	1,130,000
2. Other Base Operating Support Costs:			
2a. Utilities	000,000	000,000	000,000
2b. Transportation	59,500	000,000	59,500
2c. Environmental	111,700	000,000	111,700
2d. Facility Leases	424,000	000,000	424,000
2e. Morale, Welfare & Recreation	000,000	000,000	000,000
2f. Bachelor Quarters	000,000	000,000	000,000
2g. Child Care Centers	000,000	000,000	000,000
2h. Family Service Centers	000,000	000,000	000,000
2i. Administration	000,000	000,000	000,000
2j. Other (Specify)	000,000	000,000	000,000
2k. Sub-total 2a. through 2j:	594,700	000,000	594,700
3. Grand Total (sum of 1c. and 2k.):	1,724,700	000,000	1,724,700

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DATA CALL 66
INSTALLATION RESOURCES

identify any additional cost elements not currently shown). Leave shaded areas of table blank.

Table 1A - Base Operating Support Costs (Other Than DBOF Overhead)			
Activity Name: Naval Medical Research Inst.		UIC: 64223	
Category	FY 1996 BOS Costs ($000)		
	Non-Labor	Labor	Total
1. Real Property Maintenance Costs:			
1a. Maintenance and Repair	662.00	0.0	662.00
1b. Minor Construction	745.00	0.0	745.00
1c. Sub-total 1a. and 1b.	1407.00	0.0	1407.00
2. Other Base Operating Support Costs:			
2a. Utilities	1972.5	0.0	1972.5
2b. Transportation	59.5	0.0	59.5
2c. Environmental	168.0	86.5	254.5
2d. Facility Leases	325.0	0.0	325.0
2e. Morale, Welfare & Recreation	0.0	0.0	0.0
2f. Bachelor Quarters	0.0	0.0	0.0
2g. Child Care Centers	0.0	0.0	0.0
2h. Family Service Centers	0.0	0.0	0.0
2i. Administration	1788.2	1690.6	3478.8
2j. Other (Specify)	0.0	0.0	0.0
2k. Sub-total 2a. through 2j:	4313.2	1771.0	6090.3
3. Grand Total (sum of 1c. and 2k.):	5720.2	1777.1	7497.3

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b. Funding Source. If data shown on Table 1A reflects more than one appropriation, then please provide a break out of the total shown for the "3. Grand-Total" line, by appropriation:

Appropriation	Amount ($000)
None.	

c. Table 1B - Base Operating Support Costs (DBOF Overhead). This Table should be submitted for all current DBOF activities. Costs reported should reflect BOS costs supporting the DBOF activity itself (usually included in the G&A cost of the activity). For DBOF activities which are tenants on another installation, total cost of BOS incurred by the tenant activity for itself should be shown on this table. It is recognized that differences exist among DBOF activity groups regarding the costing of base operating support: some groups reflect all such costs only in general and administrative (G&A), while others spread them between G&A and production overhead. Regardless of the costing process, all such costs should be included on Table 1B. The Minor Construction portion of the FY 1996 capital budget should be included on the appropriate line. Military personnel costs (at civilian equivalency rates) should also be included on the appropriate lines of the table. Please ensure that individual lines of the table do not include duplicate costs. Also ensure that there is no duplication between data provided on Table 1A. and 1B. These two tables must be mutually exclusive, since in those cases where both tables are submitted for an activity, the two tables will be added together to estimate total BOS costs at the activity. Add additional lines to the table (following line 21., as necessary, to identify any additional cost elements not currently shown). **Leave shaded areas of table blank.**

Other Notes: All costs of operating the five Major Range Test Facility Bases at DBOF activities (even if direct RDT&E funded) should be included on Table 1B. Weapon Stations should include underutilized plant capacity costs as a DBOF overhead "BOS expense" on Table 1B..

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INSTALLATION RESOURCES

Table 1B - Base Operating Support Costs (DBOF Overhead)			
Activity Name: Naval Medical Research Institute		**UIC:** 64223	
Category	**FY 1996 Net Cost From UC/FUND-4 ($000)**		
	Non-Labor	**Labor**	**Total**
1. Real Property Maintenance Costs:	000,000	000,000	000,000
1a. Real Property Maintenance (>$15K)	000,000	000,000	000,000
1b. Real Property Maintenance (<$15K)	000,000	000,000	000,000
1c. Minor Construction (Expensed)	000,000	000,000	000,000
1d. Minor Construction (Capital Budget)	000,000	000,000	000,000
1c. Sub-total 1a. through 1d.	000,000	000,000	000,000
2. Other Base Operating Support Costs:			
2a. Command Office	532,120	000,000	532,120
2b. ADP Support	76,620	000,000	76,620
2c. Equipment Maintenance	38,160	000,000	38,160
2d. Civilian Personnel Services	564,566	000,000	564,566
2e. Accounting/Finance	411,280	000,000	411,280
2f. Utilities	2,917,350	000,000	2,917,350
2g. Environmental Compliance	000,000	000,000	000,000
2h. Police and Fire	000,000	000,000	000,000
2i. Safety	101,230	000,000	101,230
2j. Supply and Storage Operations	11,686,400	000,000	11,686,400
2k. Major Range Test Facility Base Costs	000,000	000,000	000,000
2l. Other (Specify) Research Support	861,987	000,000	861,987
2m. Sub-total 2a. through 2l:	17,189,713	000,000	17,189,713
3. Depreciation	000,000	000,000	000,000
4. Grand Total (sum of 1c., 2m., and 3.) :	17,189,713	000,000	17,189,713

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DOES NOT APPLY !!!

Table 1B - Base Operating Support Costs (DBOF Overhead)

Activity Name: Naval Medical Research Institute	UIC: 64223

Category	FY 1996 Net Cost From UC/FUND-4 ($000)		
	Non-Labor	Labor	Total
1. Real Property Maintenance Costs:	000,000	000,000	000,000
1a. Real Property Maintenance (>$15K)	000,000	000,000	000,000
1b. Real Property Maintenance (<$15K)	000,000	000,000	000,000
1c. Minor Construction (Expensed)	000,000	000,000	000,000
1d. Minor Construction (Capital Budget)	000,000	000,000	000,000
1e. Sub-total 1a. through 1d.	000,000	000,000	000,000
2. Other Base Operating Support Costs:			
2a. Command Office		000,000	
2b. ADP Support		000,000	
2c. Equipment Maintenance		000,000	
2d. Civilian Personnel Services		000,000	
2e. Accounting/Finance		000,000	
2f. Utilities		000,000	
2g. Environmental Compliance	000,000	000,000	000,000
2h. Police and Fire	000,000	000,000	000,000
2i. Safety		000,000	
2j. Supply and Storage Operations		000,000	
2k. Major Range Test Facility Base Costs	000,000	000,000	000,000
2l. Other (Specify) Research Support		000,000	
2m. Sub-total 2a. through 2l:		000,000	
3. Depreciation	000,000	000,000	000,000
4. Grand Total (sum of 1e., 2m., and 3.):		000,000	

DOES NOT APPLY !!!

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INSTALLATION RESOURCES

2. **Services/Supplies Cost Data.** The purpose of Table 2 is to provide information about projected **FY 1996** costs for the purchase of services and supplies by the activity. **(Note: Unlike Question 1 and Tables 1A and 1B, above, this question is not limited to overhead costs.)** The source for this information, where possible, should be either the NAVCOMPT OP-32 Budget Exhibit for O&M activities or the NAVCOMPT UC/FUND-1/IF-4 exhibit for DBOF activities. Information must reflect FY 1996 budget data supporting the FY 1996 NAVCOMPT Budget Submit. Break out cost data by the major sub-headings identified on the OP-32 or UC/FUND-1/IF-4 exhibit, disregarding the sub-headings on the exhibit which apply to civilian and military salary costs and depreciation. Please note that while the OP-32 exhibit aggregates information by budget activity, this data call requests OP-32 data for the activity responding to the data call. Refer to NAVCOMPTINST 7102.2B of 23 April 1990, Subj: Guidance for the Preparation, Submission and Review of the Department of the Navy (DON) Budget Estimates (DON Budget Guidance Manual) with Changes 1 and 2 for more information on categories of costs identified. Any rows that do not apply to your activity may be left blank. However, totals reported should reflect all costs, exclusive of salary and depreciation.

Table 2 - Services/Supplies Cost Data

Activity Name: Naval Medical Research Institute	**UIC:** 64223
Cost Category	**FY 1996 Projected Costs ($000)**
Travel:	773,300
Material and Supplies (including equipment):	11,686,400
Industrial Fund Purchases (other DBOF purchases):	000,000
Transportation:	59,500
Other Purchases (Contract support, etc.):	44,053,600
Total:	56,572,800

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INSTALLATION RESOURCES

2. Services/Supplies Cost Data. The purpose of Table 2 is to provide information about projected **FY 1996** costs for the purchase of services and supplies by the activity. **(Note: Unlike Question 1 and Tables 1A and 1B, above, this question is not limited to overhead costs.)** The source for this information, where possible, should be either the NAVCOMPT OP-32 Budget Exhibit for O&M activities or the NAVCOMPT UC/FUND-1/IF-4 exhibit for DBOF activities. Information must reflect FY 1996 budget data supporting the FY 1996 NAVCOMPT Budget Submit. Break out cost data by the major sub-headings identified on the OP-32 or UC/FUND-1/IF-4 exhibit, disregarding the sub-headings on the exhibit which apply to civilian and military salary costs and depreciation. Please note that while the OP-32 exhibit aggregates information by budget activity, this data call requests OP-32 data for the activity responding to the data call. Refer to NAVCOMPTINST 7102.2B of 23 April 1990, Subj: Guidance for the Preparation, Submission and Review of the Department of the Navy (DON) Budget Estimates (DON Budget Guidance Manual) with Changes 1 and 2 for more information on categories of costs identified. Any rows that do not apply to your activity may be left blank. However, totals reported should reflect all costs, exclusive of salary and depreciation.

Table 2 - Services/Supplies Cost Data

Activity Name: Naval Medical Research Institute	UIC: 64223
Cost Category	**FY 1996 Projected Costs ($000)**
Travel:	773.3
Material and Supplies (including equipment):	9199.6
Industrial Fund Purchases (other DBOF purchases):	0.0
Transportation:	59.5
Other Purchases (Contract support, etc.):	43262.9
Total:	53,295.3

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INSTALLATION RESOURCES

3. Contractor Workyears.

a. On-Base Contract Workyear Table. Provide a projected estimate of the number of contract workyears expected to be **performed "on base"** in support of the installation during FY 1996. Information should represent an annual estimate on a full-time equivalency basis. Several categories of contract support have been identified in the table below. While some of the categories are self-explanatory, please note that the category "mission support" entails management support, labor service and other mission support contracting efforts, e.g., aircraft maintenance, RDT&E support, technical services in support of aircraft and ships, etc.

Table 3 - Contract Workyears	
Activity Name: Naval Medical Research Institute	**UIC:** 64223
Contract Type	**FY 1996 Estimated Number of Workyears On-Base**
Construction:	0
Facilities Support:	0
Mission Support:	175
Procurement:	0
Other:*	0
Total Workyears:	175

*** Note:** Provide a brief narrative description of the type(s) of contracts, if any, included under the "Other" category.

DATA CALL 66
INSTALLATION RESOURCES

b. Potential Disposition of On-Base Contract Workyears. If the mission/functions of your activity were relocated to another site, what would be the anticipated disposition of the **on-base contract workyears** identified in Table 3.?

1) Estimated number of contract workyears which would be transferred to the receiving site (This number should reflect the number of jobs which would in the future be contracted for at the receiving site, not an estimate of the number of people who would move or an indication that work would necessarily be done by the same contractor(s)):

175.

2) Estimated number of workyears which would be eliminated:

None.

3) Estimated number of contract workyears which would remain in place (i.e., contract would remain in place in current location even if activity were relocated outside of the local area):

None.

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INSTALLATION RESOURCES

c. **"Off-Base"Contract Workyear Data.** Are there any contract workyears located in the local community, but not on-base, which would either be eliminated or relocated if your activity were to be closed or relocated? If so, then provide the following information **(ensure that numbers reported below do not double count numbers included in 3.a. and 3.b.,above)**:

No. of Additional Contract Workyears Which Would Be Eliminated	General Type of Work Performed on Contract (e.g., engineering support, technical services, etc.)
None.	

No. of Additional Contract Workyears Which Would Be Relocated	General Type of Work Performed on Contract (e.g., engineering support, technical services, etc.)
None.	

BRAC-95 CERTIFICATION

Reference: SECNAVNOTE 11000 of 08 December 1993

In accordance with policy set forth by the Secretary of the Navy, personnel of the Department of the Navy, uniformed and civilian, who provide information for use in the BRAC-95 process are required to provide a signed certification that states "I certify that the information contained herein is accurate and complete to the best of my knowledge and belief."

The signing of this certification constitutes a representation that the certifying official has reviewed the information and either (1) personally vouches for its accuracy and completeness or (2) has possession of, and is relying upon, a certification executed by a competent subordinate.

Each individual in your activity generating information for the BRAC-95 process must certify that information. Enclosure (1) is provided for individual certifications and may be duplicated as necessary. You are directed to maintain those certifications at your activity for audit purposes. For purposes of this certification sheet, the commander of the activity will begin the certification process and each reporting senior in the Chain of Command reviewing the information will also sign this certification sheet. This sheet must remain attached to this package and be forwarded up the Chain of Command. Copies must be retained by each level in the Chain of Command for audit purposes.

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

ACTIVITY COMMANDER

R. G. WALTER, DC, USN
NAME

Signature Robert G Walter

Commanding Officer
Title

Date 7/25/94

Naval Medical Research Institute
Activity

ENCL (2)

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

NEXT ECHELON LEVEL (if applicable)

T. N. JONES
NAME (Please type or print)

Signature

COMMANDING OFFICER
Title

27 July 94
Date

NAVAL MEDICAL RESEARCH AND DEVELOPMENT COMMAND
Activity

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

NEXT ECHELON LEVEL (if applicable)

NAME (Please type or print)

Signature

Title

Date

Activity

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

MAJOR CLAIMANT LEVEL

D. F. HAGEN, VADM,MC,USN
NAME (Please type or print)

Signature

CHIEF BUMED/SURGEON GENERAL
Title

8-2-94
Date

BUREAU OF MEDICINE AND SURGERY
Activity

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

DEPUTY CHIEF OF NAVAL OPERATIONS (LOGISTICS)
DEPUTY CHIEF OF STAFF (INSTALLATIONS & LOGISTICS)

W. A. EARNER
NAME (Please type or print)

Signature

Title

8/30/94
Date

Document Separator

CAPACITY ANALYSIS:
DATA CALL #4 WORK SHEET FOR
TECHNICAL CENTER or LABORATORY: NAVAL MEDICAL RESEARCH INSTITUTE, BETHESDA, MARYLAND

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TAB A: Ship Berthing Capacity
TAB B: Operational Airfield Capacity
TAB C: Depot Level Maintenance Capacity
TAB D: Ordnance Storage Capacity

**********If any responses are classified, attach a separate classified annex. **********

7 April 1994

BRAC-95 CERTIFICATION

Reference: SECNAVNOTE 11000 of 08 December 1993

In accordance with policy set forth by the Secretary of the Navy, personnel of the Department of the Navy, uniformed and civilian, who provide information for use in the BRAC-95 process are required to provide a signed certification that states "I certify that the information contained herein is accurate and complete to the best of my knowledge and belief."

The signing of this certification constitutes a representation that the certifying official has reviewed the information and either (1) personally vouches for its accuracy and completeness or (2) has possession of, and is relying upon, a certification executed by a competent subordinate.

Each individual in your activity generating information for the BRAC-95 process must certify that information. Enclosure (1) is provided for individual certifications and may be duplicated as necessary. You are directed to maintain those certifications at your activity for audit purposes. For purposes of this certification sheet, the commander of the activity will begin the certification process and each reporting senior in the Chain of Command reviewing the information will also sign this certification sheet. This sheet must remain attached to this package and be forwarded up the Chain of Command. Copies must be retained by each level in the Chain of Command for audit purposes.

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

ACTIVITY COMMANDER

R. G. WALTER
NAME (Please type or print)

Signature Robert G. Walter

CAPT, DC, USN
Title

Date 5 May 94

NAVAL MEDICAL RESEARCH INSTITUTE
Activity

1. Historical and Projected Workload. Use Tables 1.1, 1.2, 1.3 & 1.4 below to provide historical and currently projected workload data for your activity in terms of funding and workyears. Assume previous BRAC closures and realignments are implemented on schedule. Dollar amounts should be in then-year dollars. Workyears should be separated for in-house government efforts and on-site contractor work.

a. Use Table 1.1 to provide data on your site.

b. Use Table 1.2 to provide data on your Detachments that did not receive this Data Call directly. Compile the information from all of these Detachments into one table. Attach a list of the titles & UIC's of the Detachments included in the table.

c. For FY's 1993 thru 1997 provide a breakout of the "Total Funds Budgeted" line showing the appropriation and amounts of funding budgeted from your major customers. Major resource Sponsors are defined as, but not limited to, all systems commands, ONR, SSPO, CNO, FLT CINCs, Other DON, Other DOD by Department, Other Federal Government, All other. Use Table 1.3 to report this breakout for your site. Use Table 1.4 to report this breakout for your compiled Detachments that did not receive this Data Call directly. Provide separate tables for FY's 1993 thru 1997.

Use the following definitions when providing data for the tables below:

Workyears: Consistent with those used in the preparation of inputs to the President's budget.

In-House government efforts or In-House workyears: Includes both military and civil servant employees

On-Site Contractor workyears: Actual or estimated workyears performed by support contractors with workyears defined consistent with the definition used in the President's budget.

On-site Contractors: Those contractors that occupy space directly on the site on nearly a full time basis.

Total Funds Budgeted: The funds used as inputs to the President's Budget.

Civilian Personnel On-Board: Full Time Permanent employees (FTP).

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Table 1.1 Historical and Projected Workload for NMRI, BETHESDA MARYLAND

(UIC 64223 (Includes 41817 & 44852))

	Total Funds Budgeted ($K)	Total Funds Received w/o Direct Cite ($K)	Direct Cite Funds Received ($K)	Budgeted Wkyrs	Actual In-House Wkyrs	Actual Onsite Contract Wkyrs
86	19,161.3	373.0				N/A
87	17,897.6	390.0				N/A
88	19,380.0	135.1				N/A
89	18,881.9	299.1				N/A
90	34,923.2	566.8				N/A
91	30,110.9	718.5		166	167	25
92	47,340.8	1,844.5		162	11.5	55
93	56,425.4	2,972.7	100	162	163	175
94				162		
95				162		
96				162		
97				162		

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Table 1.2 Historical and Projected Workload for Detachments of NMRI, BETHESDA, MARYLAND

(UIC 64223)

Fiscal Year	Total Funds Budgeted ($K)	Total Funds Received w/o Direct Cite ($K)	Direct Cite Funds Received ($K)	Budgeted Wkyrs	Actual In-House Wkyrs	Actual Onsite Contract Wkyrs
86	2022.5	53.5		5	5	
87	2158.7	7.0		5	5	
88	3437.0	5.0		5	5	
89	3384.0	5.0		5	5	
90	1963.6	5.0		6	6	
91	1965.1	5.0		6	6	
92	2995.9	178.5		6	6	
93	2846.5	1050.0		6	6	
94	2399.0			6		
95	3596.3			6		
96	3589.0			6		
97	2928.0			6		

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TABLE 1.3 FY 199_ BREAKOUT OF FUNDS BUDGETED for NMRI, BETHESDA, MARYLAND
(UIC 64223 (Includes 41817 & 44852)

SPONSOR	RDT&E(N)							Other RDT&E ARMY	Other Appropriation						
	ONR 6.1	ONR 6.2	ONR 6.3a	CNO 6.3b	6.4	CNO 6.5	6.6		BUMED OMN	APN	OPN	NAVSPEC WA WPN	SCN	Other Navy	All Other
1993	3892.1	2638.5	33137.3	4383.5		2447.0		9543.0	1050.0			384.0		1761.8	260.9
1994	3692.0	2447.8	40086.4	4197.5		1622.0		9387.0	777.0			288.0		496.8	40.0
1995	4114.7	2808.3	42329.0	4645.5		1892.5		10094.1	815.2					0	
1996	4320.4	2948.7	44445.5	4877.8		1987.7		10411.7	856.1					0	
1997	4484.5	3060.8	46121.9	5063.2		2062.6		10507.3	899.0					0	

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TABLE 1.4 FY 199_ BREAKOUT OF FUNDS BUDGETED for DETACHMENTS of NMRI, BETHESDA, MARYLAND (UIC 64223

SPONSOR	RDT&E(N)							Other RDT&E ARMY	Other Appropriation						
	ONR 6.1	ONR 6.2	ONR 6.3a	ONR 6.3b	6.4	CNO 6.5	6.6		BUMED OMN	APN	OPN	NAVSPC WA RWPN	SCN	Other Navy	All Other
93	104.0	789.0				629.0		1324.1	1050.0						
94	74.0	350.0	300.0			600.0		1045.0	777.0						
95	69.0	980.0	820.0			645.0		1082.3	815.2						
96	65.0	940.0	770.3			650.0		1163.7	856.1						
97	68.0	540.0	483.6			655.0		1249.4	899.0						

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2. Current Class 2 Assets. Complete Tables 2.1 thru 2.6 below as directed. Tables 2.1, 2.2 & 2.3 will define the Class 2 property owned or leased by your activity (less Detachments). Tables 2.4, 2.5 & 2.6 will define the combined Class 2 assets owned or occupied at your Detachment sites which did not receive this Data Call directly. Report space holdings and assignments as of 31 March 1994. Provide numbered notes to explain imminent changes, additions & deletions such as previous BRAC realignments, MILCON (including BRAC related MILCON) & Special Projects that are currently programmed in the FYDP. Give the project number & title, cost, short description, quantity of additional square footage, award date, estimated/actual construction start date and estimated BOD. Square footage of space is to be reported in "Gross Floor/Building Area" (GF/BA) as defined in NAVFAC P-80. Many of the P-80 Category Code Numbers (CCN's) have assets that are reported in units of measure other than square feet (SF). The only unit of measure desired for this Data Call is SF. Only report the assets in each CCN that are normally reported in SF.

For your Site:

a. Use Table 2.1 below to indicate the total amount of Class 2 space at your site for which you are the plant account holder as of 31 March 1994.

b. Use Table 2.2 below to indicate the total amount of your Class 2 space reported in Table 2.1 that is assigned to your tenant commands and/or independent activities at your site as of 31 March 1994.

c. Use Table 2.3 below to indicate the total amount of Class 2 space, for which you are not the plant account holder, but which is utilized/leased by you (less Detachments). Provide numbered notes to identify the title and UIC of the plant account holder/lessor, quantity of leased space and the associated lease cost.

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Table 2.1 Main Site Class 2 Assets of NMRI, BETHESDA, MARYLAND (UIC 64223

Building type	NAVFAC (P-80) category code	Gross Floor/Building Area (KSF)			
		Adequate	Sub-standard	In-adequate	Total
Operational & Training	100				
Maintenance & Production	200				
Science labs	310	59,379	99,300	37,400	196079.00
Aircraft labs	311				
Missile and Space labs	312				
Ship and Marine labs	313				
Ground Transportation labs	314				
Weapon and Weapon Systems labs	315				
Ammunition, Explosives, & Toxics labs	316				
Electrical Equip. labs	317				
Propulsion labs	318				
Miscellaneous labs	319				
Underwater Equip. labs	320				
Technical Services labs	321				
Supply Facilities	400				
Hospital & other Medical	500				
Administrative Facilities	600				
Housing & Community	700				
Utilities & Grounds	800				
Other					

Page ___ of ___
UIC _____

Totals	59,379	99,300	37,400	196,079.00

d. In accordance with NAVFACINST 11010.44E, an Inadequate facility cannot be made Adequate for its present use through "economically justifiable means". For all the categories above where Inadequate facilities are identified provide the following information:

(1) FACILITY TYPE/CODE: 310.29

(2) WHAT MAKES IT INADEQUATE? Functionally, the building does not meet the requirements as set forth by the American Association for Accreditation of Laboratory Animal Care. The structural soundness of the building is questionable.

(3) WHAT USE IS BEING MADE OF THE FACILITY? Animal Housing/Laboratories/Administration/Storage

(4) WHAT IS THE COST TO UPGRADE THE FACILITY TO SUBSTANDARD? $4 million dollars.

(5) WHAT OTHER USE COULD BE MADE OF THE FACILITY AND AT WHAT COST? Administration/storage.

(6) CURRENT IMPROVEMENT PLANS AND PROGRAMMED FUNDING: FY-94 MILCON Project - DOD refused to fund it. We are currently attempting to acquire an existing building that would meet required specifications.

(7) HAS THIS FACILITY CONDITION RESULTED IN C3 OR C4 DESIGNATION ON YOUR BASEREP? Yes.

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UIC _____

Table 2.2 Main Site Class 2 Space of _____ (UIC _____)
Assigned to Tenants

TENANT		NAVFAC (P-80) Category Code	GF/BA Assigned (KSF)
Name	UIC		
N/A			
		Total:	

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UIC _____

Table 2.3 Class 2 Space Utilized/Leased by: NMRI, BETHESDA, MARYLAND (UIC 64223)

Building type	NAVFAC (P-80) category code	GF/BA (KSF)			
		Adequate	Sub-standard	In-adequate	Total
Operational & Training	100				
Maintenance & Production	200				
Science labs	310	47,880			47,880
Aircraft labs	311				
Missile and Space labs	312				
Ship and Marine labs	313				
Ground Transportation labs	314				
Weapon and Weapon Systems labs	315				
Ammunition, Explosives, and Toxics labs	316				
Electrical Equip. labs	317				
Propulsion labs	318				
Miscellaneous labs	319				
Underwater Equip. labs	320				
Technical Services labs	321				
Supply Facilities	400				
Hospital & other Medical	500				
Administrative Facilities	600				
Housing & Community	700				
Utilities & Grounds	800				
Other					
	Totals	47,880			47,880

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UIC _____

For your Detachment sites not receiving this Data Call directly:

e. Use Table 2.4 below to indicate the combined total amount of Class 2 space that is occupied by your Detachments for which you are the plant account holder as of 31 March 1994. Attach a list with the titles and UIC's of these Detachments.

f. Use Table 2.5 below to indicate the total amount of your Class 2 space reported in Table 2.4 that is assigned to tenant commands and/or independent activities as of 31 March 1994. Include numbered notes to indicate the Detachment site that hosts the tenant.

g. Use Table 2.6 below to indicate the combined total amount of Class 2 space utilized/leased by your Detachments for which you are not the plant account holder. Provide numbered notes to indicate the quantity of leased space and their associated rental cost.

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UIC _____

Table 2.4 Class 2 Assets of NMRI _____Occupied by Detachments 41817/44852

Building type	NAVFAC (P-80) category code	GF/BA (KSF)			
		Adequate	Sub-standard	In-adequate	Total
Operational & Training	100				
Maintenance & Production	200				
Science labs	310	4738/23020			
Aircraft labs	311				
Missile and Space labs	312				
Ship and Marine labs	313				
Ground Transportation labs	314				
Weapon and Weapon Systems labs	315				
Ammunition, Explosives, and Toxics labs	316				
Electrical Equip. labs	317				
Propulsion labs	318				
Miscellaneous labs	319				
Underwater Equip. labs	320				
Technical Services labs	321				
Supply Facilities	400				
Hospital & other Medical	500				
Administrative Facilities	600	2123/3797			
Housing & Community	700				
Utilities & Grounds	800				
Other		905/6830			

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UIC _____

Totals	7766/33647			

h. In accordance with NAVFACINST 11010.44E, an Inadequate facility cannot be made Adequate for its present use through "economically justifiable means". For all the categories above where Inadequate facilities are identified provide the following information:

(1) FACILITY TYPE/CODE:
(2) WHAT MAKES IT INADEQUATE?
(3) WHAT USE IS BEING MADE OF THE FACILITY?
(4) WHAT IS THE COST TO UPGRADE THE FACILITY TO SUBSTANDARD?
(5) WHAT OTHER USE COULD BE MADE OF THE FACILITY AND AT WHAT COST?
(6) CURRENT IMPROVEMENT PLANS AND PROGRAMMED FUNDING:
(7) HAS THIS FACILITY CONDITION RESULTED IN C3 OR C4 DESIGNATION ON YOUR BASEREP?

Page ___ of ___
UIC _____

Table 2.5 Class 2 Space at Detachment Sites of _____ (UIC _____)
Assigned to Tenants

TENANT		NAVFAC (P-80) Category Code	GF/BA (KSF) Assigned
Name	UIC		
N/A			
		Total:	

Page ___ of ___
UIC _____

Table 2.6 Class 2 Space Utilized/Leased by Detachments of _____ (UIC _____)

Building type	NAVFAC (P-80) category code	GF/BA (KSF)			
		Adequate	Sub-standard	In-adequate	Total-adequateTot
Operational & Training	100	N/A			
Maintenance & Production	200				
Science labs	310				
Aircraft labs	311				
Missile and Space labs	312				
Ship and Marine labs	313				
Ground Transportation labs	314				
Weapon and Weapon Systems labs	315				
Ammunition, Explosives, and Toxics labs	316				
Electrical Equip. labs	317				
Propulsion labs	318				
Miscellaneous labs	319				
Underwater Equip. labs	320				
Technical Services labs	321				
Supply Facilities	400				
Hospital & other Medical	500				
Administrative Facilities	600				
Housing & Community	700				
Utilities & Grounds	800				
Other					
	Totals				

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UIC _____

3. Class 2 Space Available for Expansion. An activity's expansion capability is a function of it's ability to reconfigure and/or expand existing facilities to accept new or increased roles. Such a reconfiguration may require rehabilitation or buildout of a space to support the new or expanded role. A space expansion could include converting an underutilized storage space into laboratory spaces, or buildout of a high bay area into a multifloor office/laboratory space. All questions refer to Class 2 property for which you are the plant account holder as of 31 March 1994. Do not report any currently programmed changes or additions previously reported in question #2 above. Expansion opportunities must follow the guidance of NAVFAC P-80 for the appropriate facility category code, as well as applicable fire and safety codes. Personnel loading density should not exceed those specified in the P-80. Space is only available if it is currently unoccupied or the current occupants are officially designated for relocation. Report space as Net Floor Area (NFA) as defined in the P-80. Do not include opportunities that are being reported by your Detachments who received this Data Call directly. Reported expansion opportunities must be able to accommodate the necessary ancillary facilities and equipment, such as adequate parking space, required to support the amount of people projected.

a. What is the maximum quantity of space that could be made available for expansion to accommodate other functions and/or increased efforts? Report in terms of the "Current NFA" as shown in Tables 3.1 & 3.2.
__0_____ SQFT.

b. How much of the space reported in question 3.a. above is currently available with minimal or no reconfiguration costs? Report in terms of the "Current NFA" as shown in Tables 3.1 & 3.2. _____
__0____ SQFT.

c. Use Table 3.1 below to indicate the constrained growth opportunities for accepting expanded or new roles. Constrained growth is defined as growth limited to buildings and structures currently on your Class 2 plant account. Add numbered notes to highlight and explain opportunities that require remediation or waiver of a restriction or encumbrance as part of the expansion. Provide lettered notes to clearly identify each opportunity with the title & UIC of the site it refers to. The "Current NFA (KSF)" column total should match the quantity provided in question #3.a. above. Annotate those opportunities that were used to obtain the answer to question #3.b. above. Report space once, do not use the same space for different expansion opportunities. Include in this table space that will become available once planned downsizing (separate from BRAC realignments) has been completed, provide the estimated completion date of the downsizing effort.

d. Use Table 3.2 below to indicate additional unconstrained growth opportunities for accepting expanded or new roles. Unconstrained growth allows for construction of new facilities on existing buildable Class 1 property. The only constraint being that the land must currently be on your plant account holdings as of 31 March 1994 and free of existing land use constraints. Limit new buildings to three stories. Add numbered notes to highlight and explain additional opportunities that would require remediation or waiver of a land use constraint as part of the expansion. Provide lettered notes to clearly identify each opportunity with the title & UIC of the site it refers to. Do not include space that has been reported in Table 3.1.

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UIC _____

Table 3.1 Constrained Class 2 Space Available for Expansion at _____
(UIC _____)

Building # / Category Code (3 digit)	Current NFA (KSF)	Additional Capacity Provided By Expansion		Height of High Bay (FT)	Estimated Cost of Rehab ($K's)
		NFA (KSF)	# of Personnel		
N/A					
Totals					

Page ___ of ___
UIC _____

Table 3.2 Unconstrained Class 2 Space Available for Expansion at _____
(UIC _____)

Building # / Category Code (3 digit)	Current NFA (KSF)	Additional Capacity Provided By Expansion		Height of High Bay (FT)	Estimated Cost of Rehab ($K's)
		NFA (KSF)	# of Personnel		
N/A					
Totals					

Page ___ of ___
UIC _____

4. Class 1 Space Available for Expansion.

a. Identify in Table 4.1 below the real estate resources which have the potential to facilitate future development, and for which you are the plant account holder as of 31 March 1994, or into which, though a tenant, your activity could reasonably expect to expand. Complete a separate table for each individual site (i.e., main base, outlying airfields, special off-site areas, etc.) and Detachment that did not receive this Data Call directly. The unit of measure is acres. Developed area is defined as land currently with buildings, roads, and utilities where further development is not possible without demolition of existing improvements. Include in "Restricted" acreage that is restricted for future development due to environmental constraints (e.g. wetlands, landfills, archaeological sites), operational restrictions (e.g. ESQD arcs, HERO, HERP, HERF, AICUZ, ranges) or cultural resources restrictions. Identify the reason for the restriction when providing the acreage in the table. Specify any entry in "Other" (e.g. submerged lands).

N/A

b. Are there any constraints such as parking, utilities, legal restrictions that limit the potential for using Undeveloped land for expansion? N/A

c. Explain the radio fr
equency constraints/opportuni
ties within your Class 1 holdings. N/A.

Class 1 Resources of: NMRI_____ (UIC: 64223 _____)
Site Location: N/A

Land Use	Total Acres	Developed Acreage	Available for Development	
			Restricted	Unrestricted
Maintenance	N/A			
Operational				
Training				
R & D				
Supply & Storage				
Admin				
Housing				
Recreational				
Navy Forestry Program				
Navy Agricultural Outlease Program				
Hunting/Fishing Programs				
Other				

Page ___ of ___
UIC _____

Land Use	Total Acres	Developed Acreage	Available for Development	
			Restricted	Unrestricted
Total:				

d. Of the total Unrestricted Acres reported above, how much of it has existing roads and/or utilities that could support expansion efforts? _____ Acres. Explain. N/A

5. Base Infrastructure Capacity. Provide base infrastructure data as of 31 March 1994. Provide numbered notes to explain imminent changes, additions & deletions driven by previous BRAC realignments, MILCON (including BRAC related MILCON) & Special Projects that are currently programmed in the FYDP. Give the project number & title, cost, short description, quantity of additional square footage, award date, estimated/actual construction start date and estimated BOD.

N/A

a. Utilize Table 5.1 below to provide information on your activity's base infrastructure capacity and load. Do not report this information if you are a tenant activity.

Table 5.1 Base Infrastructure Capacity & Load

	On Base Capacity	**Off base long term contract**	**Normal Steady State Load**	**Peak Demand**
Electrical Supply (KWH)	N/A			
Natural Gas (CFH)				
Sewage (GPD)				
Potable Water (GPD)				
Steam (PSI & lbm/Hr)				
Long Term Parking				
Short Term Parking				

b. Maintenance, Repair & Equipment Expenditure Data: Use Table 5.2 below to provide data on facilities and equipment expenditures at your activity. Project expenditures to FY 1997. Do not include data on Detachments who have received this Data Call directly. Do not report this information if you are a tenant activity. The following definitions apply:

Maintenance of Real Property (MRP) Dollars: MRP is a budgetary term used to gather the expenses or budget requirements for facility work including recurring maintenance, major repairs & minor construction (non-MILCON) inclusive of all Major Claimant funded Special Projects. It is the amount of funds spent on or budgeted for maintenance and repair of real property assets to maintain the facility in satisfactory operating condition. For purposes of this Data Call MRP includes all M1/R1 and M2/R2 expenditures.

Current Plant Value (CPV) of Class 2 Real Property: The hypothetical dollar amount to replace a Class 2 facility in kind with today's dollars. Example: the cost today to replace a wood frame barracks with a wood frame barracks.

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UIC _____

Acquisition Cost of Equipment (ACE): The total cumulative acquisition cost of all "personal property" equipment maintained at your activity which includes the cost of installed equipment directly related to mission execution, such as lab test equipment. Class 2 installed capital equipment that is an integral part of the facility will not be reported as ACE.

Table 5.2 Maintenance, Repair & Equipment Expenditure Data
for NMRI _____ (UIC: 64223 _____)

Fiscal Year	MRP ($M)	CPV ($M)	ACE ($M)
1985	N/A		
1986			
1987			
1988			
1989			
1990			
1991			
1992			
1993			
1994			
1995			
1996			
1997			

c. Training Facilities: N/A

(1) By facility Category Code Number (CCN), provide the usage requirements for each course of instruction required for all formal schools on your installation. A formal school is a programmed course of instruction for military and/or civilian personnel that has been formally approved by an authorized authority (ie: Service Schools Command, Weapons Training Battalion, Human Resources Office). Do not include requirements for maintaining unit readiness, GMT, sexual harassment, etc. Include all applicable 171-*xx*, 179-*xx* CCN's.

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UIC _____

Type of Training Facility/CCN	School	Type of Training	FY 1993 Requirements			FY 2001 Requirements		
			A	B	C	A	B	C
N/A								

A = STUDENTS PER YEAR
B = NUMBER OF HOURS EACH STUDENT SPENDS IN THIS TRAINING FACILITY FOR THE TYPE OF TRAINING RECEIVED
C = A x B

(2) By Category Code Number (CCN), complete the following table for all training facilities aboard the installation. Include all 171-*xx* and 179-*xx* CCN's.

For example: in the category 171-10, a type of training facility is academic instruction classroom. If you have 10 classrooms with a capacity of 25 students per room, the design capacity would be 250. If these classrooms are available 8 hours a day for 300 days a year, the capacity in student hours per year would be 600,000.

Type Training Facility/CCN	Total Number	Design Capacity (PN)[1]	Capacity (Student HRS/YR)
N/A			

(3) Describe how the Student HRS/YR value in the preceding table was derived.

---

[1] Design Capacity (PN) is the total number of seats available for students in spaces used for academic instruction; applied instruction; and seats or positions for operational trainer spaces and training facilities other than buildings, i.e., ranges. Design Capacity (PN) must reflect current use of the facilities.

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UIC _____

6. Ship Berthing Capacity. If your activity has the capacity to berth ships fill out the data sheets provided at TAB A. N/A

7. Operational Airfield Capacity. If your activity owns and operates an operational airfield fill out the data sheets provided at TAB B. N/A

8. Depot Level Maintenance Capacity. Fill out the data sheets provided at TAB C if you or your subordinate activities perform depot level maintenance on a piece of equipment or system.

N/A

9. Ordnance Storage Capacity. If your activity has the capability to store or maintain weapons and ordnance fill out the data sheets provided at TAB D. N/A

TAB A

SHIP BERTHING CAPACITY

Note: Question numbers in [ ]'s are for internal BSAT purposes.

SHIP BERTHING CAPACITY

1. [11.] For each Pier/Wharf at your facility list the following structural characteristics. Indicate the additional controls required if the pier is inside a Controlled Industrial Area or High Security Area. Provide the average number of days per year over the last eight years that the pier was out of service (OOS) because of maintenance, including dredging of the associated slip:

Table 11.1

Pier/ Wharf & Age[1]	CCN[2]	Moor Length (ft)	Design Dredge Depth[3] (ft) (MLLW)	Slip Width[4] (ft)	Pier Width (ft)[5]	CIA/Security Area? (Y/N)[6]	ESQD Limit [7]	# Days OOS for maint.
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

[1]Original age and footnote a list of MILCON improvements in the past 10 years.
[2]Use NAVFAC P-80 for category code number.
[3]Comment if unable to maintain design dredge depth
[4]Water distance between adjacent finger piers.
[5]Indicate if RO/RO and/or Aircraft access.
[6]Describe the additional controls for the pier.
[7]Net explosive weight. List all ESQD waivers that are in effect with expiration date.

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UIC _____

2. [12.] For each Pier/Wharf at your facility list the following ship support characteristics:

Table 12.1

Pier/ Wharf	OPNAV 3000.8 (Y/N)	Shore Pwr (KVA) & 4160V (KVA)	Comp. Air Press. & Capacity[1]	Potable Water (GPD)	CHT (GPD)	Oily Waste[1] (gpd)	Steam (lbm/hr & PSI)[2]	Fendering limits[3]
N/A								

[1]List only permanently installed facilities.
[2]indicate if the steam is certified steam.
[3]Describe any permanent fendering arrangement limits on ship berthing.

TAB A
Page ___ of ___
UIC _____

3. [13.] For each pier/wharf listed above state today's normal loading, the maximum capacity for berthing, maximum capacity for weapons handling evolutions, and maximum capacity to conduct intermediate maintenance.

Table 13.1

Pier/Wharf	Typical Steady State Loading[1]	Ship Berthing Capacity	Ordnance Handling Pier Capacity[2]	IMA Maintenance Pier Capacity[3]
N/A				

1 Typical pier loading by ship class with current facility ship loading.
2 List the maximum number of ships that can be moored to conduct ordnance handling evolutions at each pier/berth without berth shifts. Consider safety, ESQD and access limitations.
3 List the maximum number of ships that can be serviced in maintenance availabilities at each pier without berth shifts because of crane, laydown or access limitations.

TAB A
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4. [14.] For each pier/wharf listed above, based on Presidential Budget 1995 budgeted infrastructure improvements in the Presidential Budget 1995 through FY 1997 and the BRAC-91 and BRAC-93 realignments, state the expected normal loading, the maximum capacity for berthing, maximum capacity for weapons handling evolutions, and maximum capacity to conduct intermediate maintenance.

Table 14.1

Pier/ Wharf	Typical Steady State Loading[1]	Ship Berthing Capacity	Ordnance Handling Pier Capacity[2]	IMA Maintenance Pier Capacity[3]
N/A				

1 Typical pier loading by ship class with current facility ship loading.
2 List the maximum number of ships that can be moored to conduct ordnance handling evolutions at each pier/berth without berth shifts. Consider safety, ESQD and access limitations.
3 List the maximum number of ships that can be serviced in maintenance availabilities at each pier without berth shifts because of crane, laydown, or access limitations.

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5. [15.a.] How much pier space is required to berth and support ancillary craft (tugs, barges, floating cranes, etc.) currently at your facility? Indicate if certain piers are uniquely suited to support these craft.

N/A

6. [15.b.] What is the average pier loading in ships per day due to visiting ships at your base. Indicate if it varies significantly by season.

N/A

7. [15.c.] Given no funding or manning limits, what modifications or improvements would you make to the waterfront infrastructure to increase the cold iron ship berthing capacity of your installation? Provide a description , cost estimates, and additional capacity gained.

N/A

8. [15.d.] Describe any unique limits or enhancements on the berthing of ships at specific piers at your base.

N/A

TAB B

OPERATIONAL AIRFIELD CAPACITY

Note: Question numbers in []'s are for internal BSAT purposes.

1. **[1a.]** For the **main airfield and each auxiliary airfield,** answer the following questions:

Airfield Name _____NA_____

For each runway, give its designation, length, width, load capacity, lighting configurations, and arresting gear types. For each runway list any approach obstructions or any restrictions on flight patterns.

Runway	Length (ft)	Width (ft)	Max load	Lighting				Arresting Gear Type(s)
				F	P	C	N	
N/A								

F -- Full lighting (runway edge, center, and threshold)
P -- Partial lighting (less than full)
C -- Carrier deck lighting simulated
N -- No lighting

2. **[1b.]** Provide the **composition** (concrete, asphalt) and **load bearing capacity** of your aprons, ramps and taxiway.

Apron/ramp/taxiway Location - ID	SF	Comp.	Load Bearing Capacity	Comments
N/A				

3. **[1c.]** Do you have **high speed taxiways**? Discuss number and impact on airfield operations.

N/A

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4. **[1d.]** Are **all runways** with approved instrument approaches served by **hi-speed taxiways**?

N/A

5. **[1e.]** List any restrictions to **runways with approach obstructions** or any **restrictions on flight patterns.** Explain

N/A

6. **[1f.]** For the main airfield and each auxiliary and outlying field, discuss any **runway design features** that are specific to particular types of aircraft (i.e., are the airfield facilities designated primarily fixed wing jet, prop, or helo aircraft?)

N/A

7. **[2a.]** List the **number of flight operations** (take-off, landing, or approach without landing) that the main airfield and all auxiliary fields can support on an hourly basis in both VMC and IMC. Comment on the factors at each field that limit this capacity (e.g., taxiway/runway limitations, airspace, ATC restrictions, environmental restrictions).

Airfield N/A	# Flight Ops/Hr		Comments on Limiting Factors
	IMC	VMC	
Main			
Auxiliary _____			
Auxiliary _____			
Auxiliary _____			

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8. [2b.] Provide the average number of **(historical) flight operations** per month conducted at this station and the total number of days during which these operations were conducted. If data is not normally recorded, include estimates (and how derived). A flight operation is defined as a take-off, landing, or approach without a landing. N/A

FY	Main Airfield		Auxiliary Field _____		Auxiliary Field _____		Auxiliary Field _____	
	# Ops	# Days	# Ops	# Days	# Ops.	# Days	# Ops.	# Days
1991								
1992								
1993								

9. [2c.] What percent of your flight operations are Fleet Carrier Landing Practices (FCLPs)?

N/A

10. [2d.] Are you designated as an **authorized divert field** for any non-DoD aircraft? Explain.

N/A

11. [2d.] Is your airfield designated as a **joint use airfield** (i.e. civilian/military)? Explain.

N/A

12. [2e.] What **percentage of total operations are civilian**?

N/A

13. [2f.] Describe the major **civilian air traffic structures** (routes, terminal control areas, approaches, etc.) discuss the present and likely future impact of each on air station operations.

N/A

14. [2g.] Are there any **air traffic control constraints**/procedures that currently, or may in the future, limit air station operations? If yes, fully explain impact.

N/A

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15. [4.] List all **NAVAIDS** with published approaches that support the main airfield and/or your auxiliary airfields. Note any additions/upgrades to be added between now and FY1997.

NAVAID	DESCRIPTION/LOCATION
N/A	

16. [5a.] List all **active duty Navy/USMC squadrons/detachments** and the number of aircraft by type, model, and series (T/M/S), that will be permanently stationed/are scheduled to be stationed at this air station at the **end** of the indicated fiscal years.

Squadron/Det	# of Aircraft (PAA)	Aircraft (T/M/S)	FY 1994	FY 1995	FY 1997	FY 1999	FY 2001
N/A							

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UIC _____

17. [5b.] Summarize average **visiting squadron/det loading** on air station operations(i.e. airwing/wing weapons deployment).

Squadron/Det Size (#A/C)	Apron Space Used	Hangar Space Assigned	Maintenance Support	Ave length of stay
N/A				

18. [5c.] If a major percent of flight operations at your air station is from other than permanently stationed squadron/detachments, provide explanation.

N/A

19. [6a.] List all **reserve Navy/USMC squadrons/detachments** and the number of aircraft by type, model, and series (T/M/S), which will be stationed/are scheduled to be stationed at this air station at the **end** of the indicated fiscal years.

Squadron/Det	# of Aircraft (PAA)	Aircraft (T/M/S)	FY 1994	FY 1995	FY 1997	FY 1999	FY 2001
N/A							

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20. [7.] List all **Station aircraft** by number, type, model, and series (T/M/S), which will be parked or stationed/are scheduled to be stationed at this air station at the **end** of the indicated fiscal years.

Squadron/ Custodian	# of Aircraft (PAA)	Aircraft (T/M/S)	FY 1994	FY 1995	FY 1997	FY 1999	FY 2001
N/A							

21. [8.] List all **DoD and non-DoD aircraft** not previously listed, by custodian, including number, type, model, and series (T/M/S) of aircraft, which will be parked or stationed/are scheduled to be stationed at this air station at the **end** of the indicated fiscal years.

Service/ Agency/ Custodian	# of Aircraft (PAA)	Aircraft (T/M/S)	FY 1994	FY 1995	FY 1997	FY 1999	FY 2001
N/A							

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UIC _____

22. [9a.] List other **operational command or support units** (ie. air wing staffs, MWSG, MWSS, MACG, MASS, etc.) stationed at this installation. For each Unit, give the unit identification number/UIC, mission, and facilities required (currently being used) to support the unit (i.e. equipment parking - 2500 SF; maintenance shop-200 SF; etc.).

Support Unit Identification/UIC	Mission	Facilities Required	Equipment Laydown Requirement (covered/ uncovered in SF)
N/A			

23. [9b.] Due to BRAC or other realignments, what increases/decreases in operational command or support units will occur at your installation. Provide expected gains/losses by year through 2001.

N/A

24. [10a.] List all **other USN/USNR, USMC/USMCR, and other DoD or non-DoD active and SELRES units** not listed previously, that are scheduled to be stationed at this air station at the **end** of the indicated fiscal years.

Unit	Active or Reserve	FY 1994	FY 1995	FY 1997	FY 1999	FY 2001
N/A						

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25. [12b.] For each **Special Use Airspace (SUA)** or airspace-for-special use routinely used by squadrons/units assigned to your installation (regardless of location[2]), indicate how many hours per year are **required for** each user to maintain required **readiness**. Special Use Airspace includes alert areas, military operating areas (MOA), restricted areas, and warning areas which are used for air-to-air, air-to-ground, electronic (EW, ECM), low level training routes (MTRs), and other training.

[1] include RON/domestic deployment training

SUA	Location/ Distance	Types/Uses	Scheduling Authority (UIC)	Squadron/Unit	Training Requirement (types of training)	Yearly Usage Rate (Hrs)
N/A						

Remarks:

[2] include RON/domestic deployment training

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26. [12c.] For each **Special Use Airspace (SUA)** or airspace-for-special-use complete the following table:

SUA	Location/ Distance	Types/Uses	Scheduling Authority (UIC)	Fiscal Year	Scheduled	Utilized[1]	Operating Limitations [2]
					# Hours	# Hours	
N/A				1991			
				1992			
				1993			
				1991			
				1992			
				1993			
				1991			
				1992			
				1993			

[1] For the "Utilized" values, provide reasons for hours scheduled, but not utilized (e.g. 40% cancelled due to weather; 10% cancelled for unscheduled range maintenance, etc.).

N/A

[2] Provide any comments on operating limitations.

N/A

27. [12d.] Assuming that the flight training facility is **not constrained by operational funding** (personnel support, increased overhead costs, etc.), with the present equipment, physical plant, etc. , what **additional use of airspace assets** could be realized? Provide details and assumptions for all calculations.

N/A

28. [12h.] In the event that it became necessary to increase base loading at your installation, does the **airspace** overlying and adjacent to your installation have the **capacity** to assume an additional workload? Estimate the percentage of the possible increase. Provide the basis/calculations for these estimates.

N/A

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29. [17a.] Using the types (and mix) of aircraft currently stationed at your installation, project the additional number of these aircraft (maintain approximate current mix/ratio of A/C) that could be based and parked on your **current parking aprons.**
Provide two estimates:

1. Using NAVFAC P-80 standard measures
2. Using real world planning factors to accomodate a surge demand for space (maintaining safe operating procedures).

Aircraft Type	Current # of Aircraft Parked/Stationed	Maximum Additional Capacity (# of Aircraft)		Total	
		NAVFAC	Surge	NAVFAC	Surge
N/A					

Provide the **details of your calculations**, including your assumptions on the minimum separation between aircraft, parking angle, folding of aircraft wings and any obstructions that may limit the placement of aircraft on the parking apron spaces. Indicate if taxiway aprons are used in the projection.

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30. **[18a.]** List the **hangars** at the air station. Identify by (P-80) type, year built, dimensions.

Hangar ID/#	Type I, II or (O)ther	Year Built	Hangar Deck Dimensions	Limiting Height	Current Usage	In SF			
						Adequate	Substandard	Inadequate	Total
N/A									

In accordance with NAVFACINST 11010.44E, an inadequate facility cannot be made adequate for its present use through "economically justifiable means". For all the categories above where inadequate facilities are identified describe why the facility is inadequate; indicate how it is being used and list other possible uses; and specify the costs to remove the deficiencies that make it inadequate. Indicate current plans to remove these deficiencies and the amount of any programmed funds. Discuss any material conditions of substandard facilities which have resulted in a C3 or C4 designation on your BASEREP.

31. **[18b.]** For each **hangar** provide **space allocation** information listed in table below. Indicate if OPS/ADMIN space is in a non-contiguous building, Provide subtotal for each hangar.

Hangar #/ID/Type	SQD/Mod# Assignment[1]	Ops + Admin Spaces SF/ Module	Maint Shops SF/ Module (O Level)	Hangar Deck SF/Module	A/C Line parking spaces [2,3]		
					#/ Module	SF	Elec. Pwr.
N/A							
TOTAL							

1 Provide which SQD/Det was assigned to the specific module at receipt of this Data Call. (i.e., VFA-15, Hgr 1, Mod C)

2 Dedicated aircraft parking spaces per Module and total square feet (SF) of A/C line parking spaces

3 Are there A/C line parking spaces supported by permanently installed electric power? (Y/N)

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32. [18f.] List all **squadrons/detachments** normally homeported at this air station that were deployed and **not assigned** hangar/maintenance spaces at receipt of this data call.

Squadron/Detachment	#/Type Aircraft	Deployed Location
N/A		

33. [18g.] List all **squadrons/detachments** normally homeported at this air station that were deployed and **were assigned** hangar/maintenance spaces at receipt of this data call.

Squadron/Detachment	#/Type Aircraft	Hanger Module Assignment
N/A		

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34. [18h.] Using the types (and mix) of **aircraft** currently stationed at your installation, project the maximum additional number of these aircraft (maintain approximate current mix/ratio of A/C) that could be housed and maintained in **your current hangars**. Provide two estimates:

1. Using NAVFAC P-80 standard measures

2. Using real world planning factors to accomodate a surge demand for space (maintaining safe operating procedures).

Aircraft Type	Current # of Aircraft Parked/Stationed	Maximum Additional Capacity (# of Aircraft)		Total (Current + Additional)	
		NAVFAC	Surge	NAVFAC	Surge
N/A					

Provide the **details of your calculations**, including your assumptions on the minimum separation between aircraft, folding of aircraft wings and any obstructions that may limit the placement of aircraft in the hangars.

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35. [19.] Do you have any of the following **special use facilities** at the Air Station?

N/A

CCN	Type of Facility	In SF				# of Units	Year Built
		Adequate	Substandard	Inadequate	Total		
211-01	Aircraft Acoustical Enclosure						
211-02	Nose Hangar						
211-03	Corrosion Control Hangar						
211-75	Parachute/Survival Equipment Shop						
211-81	Engine Test Cell						
211-88	Power Check Pad with Sound Suppression						
211-89	Power Check Pad without Sound Suppression						
211-96	Maintenance, Aircraft Spares Storage						
116-10	Airfield Washrack Pavement						
116-15	Aircraft Rinse Facility						
214-30	Refueling Vehicle Shop						
218-60	Aircraft Ground Support Equipment						
	Other						

In accordance with NAVFACINST 11010.44E, an inadequate facility cannot be made adequate for its present use through "economically justifiable means". For all the categories above where inadequate facilities are identified describe why the facility is inadequate; indicate how it is being used and list other possible uses; and specify the costs to remove the deficiencies that make it inadequate. Indicate current plans to remove these deficiencies and the amount of any programmed funds. Discuss any material conditions of substandard facilities which have resulted in a C3 or C4 designation on your BASEREP.

36. [21a.] For the following **aircraft support facility** category codes, provide the amount of adequate substandard, and inadequate facilities.

N/A

CCN	Facility Type	Unit of Measure	Adequate	Substandard	Inadequate	Total	Number of Units
111-20	Landing Pads	SF					
121-10	Direct Fueling	OL/GM					
124-30	Fuel Storage	GA					
421-xx	Ammunition Storage	CF/TONS					
425-xx	Open Ammunition Storage	SF					
113-20	Parking Aprons	SF					
113-40	Access Aprons	SF					
116-56	Combat Aircraft Ordnance Loading Area	SF					
	Other						

In accordance with NAVFACINST 11010.44E, an inadequate facility cannot be made adequate for its present use through "economically justifiable means". For all the categories above where inadequate facilities are identified describe why the facility is inadequate; indicate how it is being used and list other possible uses; and specify the costs to remove the deficiencies that make it inadequate. Indicate current plans to remove these deficiencies and the amount of any programmed funds. Discuss any material conditions of substandard facilities which have resulted in a C3 or C4 designation on your BASEREP.

TAB C
DEPOT LEVEL MAINTENANCE CAPACITY

Maintenance and Industrial Activities

Activities that actually perform Depot Level Maintenance shoudl complete **PART I** of this TAB. Warfare Center Headquarters (Owners & Operators) whose subordinate activities actually perform Depot Level Maintenance should complete **PART II** of this TAB. Depot and/or industrial workload capacity is to be reported as a function of the following categories for the period requested.

Refer to the following notes when filling out the tables in this TAB.

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Commodity Groups List

1. Aircraft Airframes:
   - Rotary
   - VSTOL
   - Fixed Wing
     - Transport / Tanker / Bomber / Command and Control
     - Light Combat
     - Admin / Training
   - Other

2. Aircraft Components
   - Dynamic Components
   - Aircraft Structures
   - Hydraulic/Pneumatic
   - Instruments
   - Landing Gear
   - Aviation Ordnance
   - Avionics/Electronics
   - APUs
   - Other

3. Engines (Gas Turbine)
   - Aircraft
   - Ship
   - Tank
   - Blades / Vanes (Type 2)

4. Missiles and Missile Components
   - Strategic
   - Tactical / MLRS

5. Amphibians
   - Vehicles
   - Components (less GTE)

6. Ground Combat Vehicles
   - Self-propelled
   - Tanks
   - Towed Combat Vehicles
   - Components (less GTE)

7. Ground and Shipboard Communications and Electronic Equipment
   - Radar
   - Radio Communications
   - Wire Communications
   - Electronic Warfare
   - Navigational Aids
   - Electro-Optics / Night Vision
   - Satellite Control / Space Sensors

8. Automotive / Construction Equipment

9. Tactical Vehicles
   - Tactical Automotive Vehicles
   - Components

10. Ground General Purpose Items
    - Ground Support Equipment (except aircraft)
    - Small Arms / Personal Weapons
    - Munitions / Ordnance
    - Ground Generators
    - Other

11. Sea Systems
    - Ships
    - Weapons Systems

12. Software
    - Tactical Systems
    - Support Equipment

13. Special Interest Items
    - Bearings Refurbishment
    - Calibration (Type I)
    - TMDE

14. Other

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Notes:

1. Production" equates to the number of items processed per Fiscal Year (FY), unless otherwise specified.

2. Base your responses for FY 94 and previous years on executed workload, and for FY 95 and subsequent years on workload as programmed. Unless otherwise specified, use workload mixes as programmed. In estimating projected workload capabilities, use the Activity's configuration as of completion of implementation of the BRAC-88/91/93 actions.

3. Use single shift operations (1-8-5) as the basis for your calculations. Report in specified units of throughput and Direct Labor Man Hours (DLMHs).

4. If any responses are classified, so annotate the applicable question and include those responses in a separate classified annex.

5. Capacity Index and Utilization Index will be calculated in accordance with the Defense Depot Maintenance Council approved update to Department of Defense Instruction (DoDInst) 4151.15H, "Depot Maintenance Capacity/Utilization Index Measurement."

6. The Major Owner/Operator questions will be answered by the Major Claimant/Systems Commander.

7. Utilize the tables provided to answer each question. Answer the questions for all of the commodity groups that are applicable to your activity. In the Aircraft Airframes and Engines (Gas Turbine) commodity groups break out the information by aircraft type, model, series or by engine type as applicable when filling out the tables.

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PART I: MAINTENANCE & INDUSTRIAL ACTIVITIES

1. Historic and Predicted Workload

1.1 Given the current configuration and operation of your activity, provide the depot/industrial level maintenance by commodity group (from the List above) that was executed in and is programmed for the Fiscal Years (FY) requested in units throughput (Tables 1.1.a and 1.1.b) and in Direct Labor Man Hours (DLMHs) (Tables 1.1.c and 1.1.d). Add additional rows as required to report all commodity types serviced at this activity.

Table 1.1.a: **Historic and Predicted Depot/Industrial Workload**

Commodity Type	Throughput (Units)							
	FY 1986	FY 1987	FY 1988	FY 1989	FY 1990	FY 1991	FY 1992	FY 1993
N/A								
Total:								

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Table 1.1.b: **Historic and Predicted Depot/Industrial Workload**

Commodity Type	Throughput (Units)							
	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
Total:								

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Table 1.1.c: **Historic and Predicted Depot/Industrial Workload**

Commodity Type	Throughput (DLMHs)							
	FY 1986	FY 1987	FY 1988	FY 1989	FY 1990	FY 1991	FY 1992	FY 1993
Total:								

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Table 1.1.d: **Historic and Predicted Depot/Industrial Workload**

Commodity Type	Throughput (DLMHs)							
	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
Total:								

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1.2 For each commodity type reported in Tables 1.1.a through 1.1.d, assume (a) the current projected total depot / industrial workload remains as assigned; (b) that sufficient production demand is available to justify maximum hiring, optimum (repeat order manufacturing lead times) procurement, and maximum equipment support; and (c) no major MILCON additional to that already programmed: what is the maximum extent to which depot / industrial maintenance operations could be expanded at this activity, based on the current and future planned workload mixes, for the requested period? Please provide your response in both the absolute maximum number of units and DLMHs that could be processed at this activity by applicable commodity group. Add additional rows as necessary to accommodate all commodity types serviced at this activity.

Table 1.2.a: **Maximum Potential Depot/Industrial Workload**

Commodity Type	Throughput (Units)						
	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
Total:							

Table 1.2.b: **Maximum Potential Depot/Industrial Workload**

Commodity Type	Throughput (DLMHs)							
	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
Total:								

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1.3 Provide details of your calculations including assumptions on additional space utilized, major equipment required, production rates, and constraints that limit increased workload by commodity group at this activity.

1.4 Given an environment unconstrained by funds or manning, what Industrial Plant Equipment (IPE) would you change (add, delete, or modify) to increase your activity's capability to perform workload in each of the applicable commodity groups? Describe quantitatively how the changes above would increase your activity's depot/industrial level maintenance capabilities. What would the associated costs be? What would be the payback period and return on investment?

1.5 Are there any environmental, legal, or otherwise limiting factors that inhibit further the development of depot/industrial level workload and this activity (AICUZ encroachment, pollutant discharge, etc.)?

2. Workload Summary

2.1 Enter the information from the Predicted and Potential Workload sections of the previous question into the table below and calculate the variance between projected and potential workloads. Again, clearly identify each commodity and include all commodities serviced at this activity.

Table 2.1.a: **PREDICTED WORKLOAD VARIANCE FOR FY 1995**

FY 1995 Commodity n/aType	Product (units)			DLMHs		
	Predicted Workload	Potential Workload	Variance	Predicted Workload	Potential Workload	Variance
Total	N / A	N / A	N / A			

[1] This workload is not duplicative of any previously reported workload. Detail all production categorized as "other".

Table 2.1.b: **PREDICTED WORKLOAD VARIANCE FOR FY 1996**

FY 1996 Commodity Type	Product (units)			DLMHs		
	Predicted Workload	Potential Workload	Variance	Predicted Workload	Potential Workload	Variance
Total	N / A	N / A	N / A			

[1] This workload is not duplicative of any previously reported workload. Detail all production categorized as "other".

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Table 2.1.c: **PREDICTED WORKLOAD VARIANCE FOR FY 1997**

FY 1997 Commodity Type	Product (units)			DLMHs		
	Predicted Workload	Potential Workload	Variance	Predicted Workload	Potential Workload	Variance
Total	N / A	N / A	N / A			

[1] This workload is not duplicative of any previously reported workload. Detail all production categorized as "other".

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Table 2.1.d: **PREDICTED WORKLOAD VARIANCE FOR FY 1998**

FY 1998 Commodity Type	Product (units)			DLMHs		
	Predicted Workload	Potential Workload	Variance	Predicted Workload	Potential Workload	Variance
Total	N / A	N / A	N / A			

[1] This workload is not duplicative of any previously reported workload. Detail all production categorized as "other".

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Table 2.1.e: **PREDICTED WORKLOAD VARIANCE FOR FY 1999**

FY 1999 Commodity Type	Product (units)			DLMHs		
	Predicted Workload	Potential Workload	Variance	Predicted Workload	Potential Workload	Variance
Total	N / A	N / A	N / A			

[1] This workload is not duplicative of any previously reported workload. Detail all production categorized as "other".

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Table 2.1.f: **PREDICTED WORKLOAD VARIANCE FOR FY 2000**

FY 2000 Commodity Type	Product (units)			DLMHs		
	Predicted Workload	Potential Workload	Variance	Predicted Workload	Potential Workload	Variance
Total	N / A	N / A	N / A			

[1] This workload is not duplicative of any previously reported workload. Detail all production categorized as "other".

Table 2.1.g: **PREDICTED WORKLOAD VARIANCE FOR FY 2001**

FY 2001 Commodity Type	Product (units)			DLMHs		
	Predicted Workload	Potential Workload	Variance	Predicted Workload	Potential Workload	Variance
Total	N / A	N / A	N / A			

[1] This workload is not duplicative of any previously reported workload. Detail all production categorized as "other".

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PART II: HEADQUARTERS (MAJOR OWNERS & OPERATORS)

1. Interservicing Candidates

1.1 Specify all depot and/or industrial workload programs, performed by any of your activities, that are possible candidates for interservicing, *both* in to and out from the activity. Provide detailed supporting data for your recommendations.

N/A.

2. Core Requirements

2.1 Given the current programmed configuration and operation for these activities, provide the projected Core Workload, Directed workload, Core "Plus" Workload, and Workload required to be retained to meet the Secretary of the Navy's Title 10 responsibilities. Within each Fiscal Year (FY) requested, provide your response in Units of throughput (where applicable) and Direct Labor Man Hours (DLMHs) for the categories in the following Tables. Core workload includes all Core work performed for other Military Departments (please specify such work within each commodity category).

- Core workload calculations are to be performed in accordance with the Office of the Under Secretary of Defense (Logistics) (OUSD(L)) Memorandum dated 15 November 1993 (subject: "Policy for Maintaining Core Depot Maintenance Capability").

- Directed workload includes: Foreign Military Sales (FMS); Low Quantity Non-Core; Low Quantity Above Core; Best Value; Engineering Support; and Last Source of Repair. Directed workload is tabulated in Section 2.2, following.

- Core-Plus workload is the sum of Core workload and Directed workload.

- Title 10 workload is that portion of Core workload that must be retained within the Department of the Navy in order to meet the Secretary of the Navy's Title 10 responsibilities.

Table 2.1.a: **Workload Requirements FY 1993**

FY 1993 Commodity Type	Core Workload (DLMHs)			
	Core Workload	Directed Workload	Core "Plus" Workload	Title 10 Workload
N/A				
Total:				

Table 2.1.b: **Workload Requirements FY 1994**

FY 1994 Commodity Type	Core Workload (DLMHs)			
	Core Workload	Directed Workload	Core "Plus" Workload	Title 10 Workload
N/A				
Total:				

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Table 2.1.c: **Workload Requirements FY 1995**

FY 1995 Commodity Type	Core Workload (DLMHs)			
	Core Workload	Directed Workload	Core "Plus" Workload	Title 10 Workload
N/A				
Total:				

Table 2.1.d: **Workload Requirements FY 1996**

FY 1996 Commodity Type	Core Workload (DLMHs)			
	Core Workload	Directed Workload	Core "Plus" Workload	Title 10 Workload
N/A				
Total:				

TAB C - PART II
Page ___ of ___
UIC: _____

Table 2.1.e: **Workload Requirements FY 1997**

FY 1997 Commodity Type	Core Workload (DLMHs)			
	Core Workload	Directed Workload	Core "Plus" Workload	Title 10 Workload
N/A				
Total:				

TAB C - PART II
Page ___ of ___
UIC: _____

Table 2.1.g: **Workload Requirements FY 1999**

FY 1999 Commodity Type	Core Workload (DLMHs)			
	Core Workload	Directed Workload	Core "Plus" Workload	Title 10 Workload
N/A				
Total:				

TAB C - PART II
Page ___ of ___
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Table 2.1.h: **Workload Requirements FY 2000**

FY 2000 Commodity Type	Core Workload (DLMHs)			
	Core Workload	Directed Workload	Core "Plus" Workload	Title 10 Workload
N/A				
Total:				

TAB C - PART II
Page ___ of ___
UIC: _____

Table 2.1.i: **Workload Requirements FY 2001**

FY 2001 Commodity Type	Core Workload (DLMHs)			
	Core Workload	Directed Workload	Core "Plus" Workload	Title 10 Workload
N/A				
Total:				

2.2 Given the current programmed configuration and operation of the NADEPs, provide the projected Directed Workload. Within each Fiscal Year (FY) requested, provide your response in units throughput (where available) and Direct Labor Man Hours (DLMHs) for the categories requested.

- Foreign Military Sales (FMS) include airframe, engine and component maintenance and manufacturing support.

N/A/

- Modifications (Mods) include *only those modifications* performed concurrently with scheduled depot level work packages constituting Core workload.

N/A

- Low Quantity Non-Core (LQNC) is that Non-Core workload with insufficient programmed quantity for competition. This category also includes above threshold Core workload for weapons systems which have a total projected workload greater than the computed core quantity (above core workload).

N/A

- Best Value (BV) includes items that have been offered for maintenance under competitive rules and no offerer has provided a bid that is equal to or better than the value provided by a current organic source.

- Engineering Support (Engr) consists of Engineering Support to field, modify, operate, and maintain aviation weapon systems (i.e. RCM analysis, defining maintenance intervals, developing maintenance concepts, modification management, industrial support, investigations, bulletins and flight safety, and environmental issues).

- Last Source of Repair (LSOR) comprises Non-Core workload which has been offered for maintenance under competitive rules and no offerer has provided a bid, and for which a workload requirement exists and the organic depot is the only remaining source of repair.

Table 2.2.a: **Directed Workloads - FY 1993**

FY 1993 Commodity	Units Throughput						Total
	FMS	Mods	LQNC	BV	Engr	LSOR	
N/A							
FY 1993 Total:							

TAB C - PART II
Page ____ of ____
UIC: _____

Table 2.2.b: **Directed Workloads - FY 1994**

FY 1994 Commodity	Units Throughput						Total
	FMS	Mods	LQNC	BV	Engr	LSOR	
N/A							
FY 1994 Total:							

TAB C - PART II
Page ___ of ___
UIC: _____

Table 2.2.c: **Directed Workloads - FY 1995**

FY 1995 Commodity	Units Throughput						Total
	FMS	Mods	LQNC	BV	Engr	LSOR	
N/A							
FY 1995 Total:							

TAB C - PART II
Page ____ of ____
UIC: _____

Table 2.2.d: **Directed Workloads - FY 1996**

FY 1996 Commodity	Units Throughput						Total
	FMS	Mods	LQNC	BV	Engr	LSOR	
N/A							
FY 1996 Total:							

TAB C - PART II
Page ___ of ___
UIC: _____

Table 2.2.e: **Directed Workloads - FY 1997**

FY 1997 Commodity	Units Throughput						Total
	FMS	Mods	LQNC	BV	Engr	LSOR	
N/A							
FY 1997 Total:							

TAB C - PART II
Page ___ of ___
UIC: _____

Table 2.2.f: **Directed Workloads - FY 1998**

FY 1993 Commodity	Units Throughput						Total
	FMS	Mods	LQNC	BV	Engr	LSOR	
N/A							
FY 1998 Total:							

TAB C - PART II
Page ___ of ___
UIC: _____

Table 2.2.g: **Directed Workloads - FY 1999**

FY 1999 Commodity	Units Throughput						Total
	FMS	Mods	LQNC	BV	Engr	LSOR	
N/A							
FY 1999 Total:							

TAB C - PART II
Page ___ of ___
UIC: _____

Table 2.2.h: **Directed Workloads - FY 2000**

FY 2000 Commodity	Units Throughput						Total
	FMS	Mods	LQNC	BV	Engr	LSOR	
N/A							
FY 2000 Total:							

TAB C - PART II
Page ___ of ___
UIC: _____

Table 2.2.i: **Directed Workloads - FY 2001**

FY 2001 Commodity	Units Throughput						Total
	FMS	Mods	LQNC	BV	Engr	LSOR	
N/A							
FY 2001 Total:							

TAB C - PART II
Page ___ of ___
UIC: _____

3. Organization

3.1 Can the depot/industrial level workload be transferred to other sources such as other Navy activities, interservice to other DoD entities, or outsourced to commercial activities? Identify all applicable considerations to your recommendations.

TAB D
ORDNANCE STORAGE CAPACITY

ORDNANCE STORAGE CAPACITY

Please answer the following questions if your activity performs any stowage or maintenance on y of the following ordnance commodities types:

1. Ordnance Stowage and Support

1.1 Provide present and predicted inventories (coordinate with inventory control manager) and maximum rated capability of all stowage facilities at each weapons storage location controlled by this activity. In predicting the out year facility utilization, distribute overall ordnance compliment to the most likely configuration. The maximum rated capability is also an out year projection taking into account any known or programmed upgrades that may increase current stowage capacity. When listing stowage facilities, group by location (e.g. main base, outlying field, special area).

ORDNANCE COMMODITY TYPES

Mines	Expendables	LOE: Rockets
Torpedoes	INERT	LOE: Bombs
Air Launched Threat	CADS/PADS	LOE: Gun Ammo (20mm-16")
Surface Launched Threat	Strategic Nuclear	LOE: Small Arms (up to 50 cal.)
	Tactical Nuclear	LOE: Pyro/Demo
		Grenades/Mortars/Project

Table 1.1: **Total Facility Ordnance Stowage Summary**

Facility Number	PRESENT INVENTORY		PREDICTED INVENTORY FY 2001		MAXIMUM RATED CAPABILITY	
	TONS	SQ FT	TONS	SQ FT	TONS	SQ FT
N/A						
TOTAL						

TAB D
Page ___ of ___
UIC: _____

1.2 For each Stowage facility identified in question 1.1 above, identify the type of facility (specify if "igloo", "box", etc.). Identify the type of ordnance commodity (from the list above) which are currently stowed in that facility and all other ordnance types which, given existing restrictions, could be physically accommodated in that stowage facility. Specify below if such additional accommodation would require a modification of the facility (e.g. enhanced environmental controls, ESQD waiver).

- Identify the reason(s) for which this ordnance is stored at your facility from the following list: own activity use (training); own activity use (operational stock); Receipt/Segregation/ Stowage/Issue (RSSI); transhipment/awaiting issue; deep stow (war reserve); deep stow (awaiting Demil); other. Explain each "other" entry in the space provided, including ordnance stowed which is not a DON asset.

Table 1.2: **Total Facility Ordnance Stowage Summary**

Facility Number/Type	Currently Stowed Commodity Type(s)	Reason for Stowage at your Activity	Commodity Type(s) Which Can Be Stowed
N/A			

Additional comments:

TAB D
Page ___ of ___
UIC: _____

1.3 Identify the rated category, rated NEW and status of ESQD arc for each stowage facility listed above.

Table 1.3: **Facility Rated Status**

Facility Number / Type	Hazard Rating (1.1-1.4)	Rated NEW	ESQD Arc		
			Established (Y / N)	Waiver (Y / N)	Waiver Expiration Date
N/A					

TAB D
Page ___ of ___
UIC: _____

1.4 Identify any restrictions which prevent maximum utilization of your facilities. If restrictions are based on facility conditions, specify reason, the cost to correct the deficiency, and identify any programmed projects that will correct the deficiency and/or increase your capability.

1.5 Identify if your activity performs any of the following functions on any of the ordnance commodities previously listed. Technical support includes planning, financial, administrative, process engineering and SOP support. Within each related function identify each ordnance commodity type for which you provide these services and the total Direct Labor Man Hours (DLMHs) expended (FY 1994); identify only those DLMHs expended by personnel under your command.

Table 1.5: **Related Ordnance Support**

Related Functions	Performed? (Y / N)	Type of Commodity	DLMHs
Maintenance (specify level)			
Testing			
Manufacturing			
Outload			
Technical Support			

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

NEXT ECHELON LEVEL

CAPT E. T. FLYNN, MC, USN
NAME (Please type or print)

Signature E. T. Flynn

COMMANDING OFFICER
Title

Date 6 May 94

NAVAL MEDICAL RESEARCH AND DEVELOPMENT COMMAND
Activity

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

MAJOR CLAIMANT LEVEL

RADM R. I. RIDENOUR

ACTING CHIEF BUMED
NAME (Please type or print)

Signature R I Ridenour

BUREAU OF MEDICINE AND SURGERY

Title

Date 5-16-94

Activity

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

DEPUTY CHIEF OF NAVAL OPERATIONS (LOGISTICS)
DEPUTY CHIEF OF STAFF (INSTALLATIONS & LOGISTICS)

J.B. Greene, Jr
NAME (Please type or print)

Signature J B Greene Jr.

Acting
Title

Date 27 May 1994

Document Separator

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DATA CALL 1: GENERAL INSTALLATION INFORMATION

1. ACTIVITY: Follow example as provided in the table below (*delete the examples when providing your input*). If any of the questions have multiple responses, please provide all. If any of the information requested is subject to change between now and the end of Fiscal Year (FY) 1995 due to known redesignations, realignments/closures or other action, provide current and projected data and so annotate.

- Name

Official name	*Naval Medical Research Institute*
Acronym(s) used in correspondence	*NMRI*
Commonly accepted short title(s)	*NAVMEDRSCHINSTITUTE*

- Complete Mailing Address

8901 Wisconsin Avenue
Bethesda, MD 20889-5607

- PLAD: NAVMEDRSCHINSTITUTE BETHESDA MD

- PRIMARY UIC: 64223 (Plant Account UIC for Plant Account Holders)

Enter this number as the Activity identifier at the top of each Data Call response page.

- ALL OTHER UIC(s): 41817 PURPOSE: Detachment
  44852 Detachment

2. PLANT ACCOUNT HOLDER:

- Yes ____ No __X__ (check one)

3. ACTIVITY TYPE: Choose most appropriate type that describes your activity and completely answer all questions.

• HOST COMMAND: A host command is an activity that provides facilities for its own functions and the functions of other (tenant) activities. A host has accountability for Class 1 (land), and/or Class 2 (buildings, structures, and utilities) property, regardless of occupancy. It can also be a tenant at other host activities.

• Yes _____ No __X__ (check one)

• TENANT COMMAND: A tenant command is an activity or unit that occupies facilities for which another activity (i.e., the host) has accountability. A tenant may have several hosts, although one is usually designated its primary host. If answer is "Yes," provide best known information for your primary host only.

• Yes __X__ No _____ (check one)

• Primary Host (current) UIC: ØØ168 BUMED-822

• Primary Host (as of 01 Oct 1995) UIC: ØØ168

• Primary Host (as of 01 Oct 2001) UIC: ØØ168 mrl, 14 Jul 94

ØØ168 is NNMC Bethesda

• INDEPENDENT ACTIVITY: For the purposes of this Data Call, this is the "catch-all" designator, and is defined as any activity not previously identified as a host or a tenant. The activity may occupy owned or leased space. Government Owned/Contractor Operated facilities should be included in this designation if not covered elsewhere.

• Yes _____ No __X__ (check one)

4. SPECIAL AREAS: List all Special Areas. Special Areas are defined as Class 1/Class 2 property for which your command has responsibility that is not located on or contiguous to main complex.

Name	Location	UIC
Naval Medical Research Institute Annex	Rockville, MD	64223

5. DETACHMENTS: If your activity has detachments at other locations, please list them in the table below.

Name	UIC	Location	Host name	Host UIC
NMRI Toxicology	41817	Wright-Patterson AFB, OH	USAF	
NMRI Detachment	44852	Lima, Peru	Peruvian Navy	

6. BRAC IMPACT: Were you affected by previous Base Closure and Realignment decisions (BRAC-88, -91, and/or -93)? If so, please provide a brief narrative.

The Command has been involved in two decisions by the BRAC-91 Committee.

a. Actions by BRAC-91 to close the Letterman Army Institute of Research resulted in the transfer of Letterman's entire Blood Research Program to the Washington, DC area to collocate with ongoing NMRI efforts. Army personnel involved in this work are assigned to, and are administratively handled by, the Walter Reed Army Institute of Research. NMRI is responsible for providing the physical facility for this group. Pending the construction or purchase of new facilities as projected in the BRAC decision, BRAC funds are being provided for the lease of the Gillette Building in Rockville, MD to house this group.

b. The BRAC-91 Committee also directed the collocation of the Army and Navy Infectious Diseases Research Programs at the Walter Reed Army Institute of Research beginning in 1997. This date was to coincide with the completion of the construction of a new building for the Walter Reed Army Institute of Research. It is expected that NMRI would continue to be administratively responsible for the Navy personnel assigned to this program in the same manner as noted above for the Army Blood Research personnel.

7. MISSION: Do not simply report the standard mission statement. Instead, describe important functions in a bulletized format. Include anticipated mission changes and brief narrative explanation of change; also indicate if any current/projected mission changes are a result of previous BRAC-88, -91,-93 action(s).

Current Missions

* Conduct basic and applied research on Diving and Hyperbaric Medicine.

* Conduct basic and applied research on Blood Preservation, Enhanced Reconstitution of Normal Blood Cell Components, and the Development of Artificial Blood Substitutes.

* Conduct basic and applied research on Tissue and Organ Transplantation.

* Conduct basic and applied research on the Development of Vaccines and Other Methods for the Prevention, Rapid Diagnosis, and Treatment of Infectious Diseases.

* Conduct basic and applied research on Environmental Medicine, and the Improvement of the Performance of Navy and Special Forces Personnel in difficult environments.

* Provide administrative support and execution oversight to Detachments conducting Toxicology Research at Wright-Patterson AFB, OH; Electromagnetic Radiation Research at Brooks AFB, TX; and Infectious Diseases Research at Lima, Peru.

* Provide a source of personnel, trained in state-of-the-art medical technology, for deployment in specialized field laboratories and as advisors or consultants in the application of new biomedical knowledge to urgent operational problems.

Projected Missions for FY 2001

* Continue basic and applied research on Diving and Hyperbaric Medicine; Blood Preservation, Reconstitution, and Substitute Development; Tissue and Organ Transplantation; and Environmental Medicine and Personnel Performance.

* Continue to provide a source for specially trained personnel for the optimal use of biomedical technology to solve operational problems.

* Assume execution responsibilities for the current headquarters command (Naval Medical Research and Development Command) and provide administrative support and execution oversight of current Detachments and those other Navy Medical Laboratory Activities scheduled for downsizing under BRAC programmed consolidations (Pensacola, New London, Great Lakes).

* Provide support and coordination for Navy personnel and Navy-unique program requirements for the BRAC consolidated Defense Infectious Diseases Research to be conducted at the Walter Reed Army Institute of Research.

8. UNIQUE MISSIONS: Describe any missions which are unique or relatively unique to the activity. Include information on projected changes. Indicate if your command has any National Command Authority or classified mission responsibilities.

Current Unique Missions

* Conduct basic and applied research on Diving and Hyperbaric Medicine.

* Conduct basic and applied research on Blood Preservation beyond Current FDA-approved Shelf Life, and the Use of Stem Cells for Enhanced Reconstitution of Normal Blood Cell Components.

* Provide administrative support and execution oversight to Detachments conducting Toxicology Research at Wright-Patterson AFB, OH; Electromagnetic Radiation Research at Brooks AFB, TX; and Infectious Diseases Research at Lima, Peru.

/ Provide a source of personnel, trained in state-of-the-art medical technology, for deployment in specialized field laboratories and as advisors or consultants in the application of new biomedical knowledge to urgent operational problems.

Projected Unique Missions for FY 2001

* Continue basic and applied research on Diving and Hyperbaric Medicine, and Blood Preservation and Reconstitution.

* Continue to provide a source for specially trained personnel for the optimal use of biomedical technology to solve operational problems.

* Assume execution responsibilities for the current headquarters command (Naval

Medical Research and Development Command) and provide administrative support and execution oversight of current Detachments and those other Navy Medical Laboratory Activities scheduled for downsizing under BRAC programmed consolidations (Pensacola, New London, Great Lakes).

* Provide support and coordination for Navy personnel and Navy-unique program requirements for the BRAC consolidated Defense Infectious Diseases Research to be conducted at the Walter Reed Army Institute of Research.

9. IMMEDIATE SUPERIOR IN COMMAND (ISIC): Identify your ISIC. If your ISIC is not your funding source, please identify that source in addition to the operational ISIC.

• Operational name	UIC
Naval Medical Research and Development Command	00075

• Funding Source	UIC
_____	

10. PERSONNEL NUMBERS: Host activities are responsible for totalling the personnel numbers for all of their tenant commands, even if the tenant command has been asked to separately report the data. The tenant totals here should match the total tally for the tenant listing provided subsequently in this Data Call (see Tenant Activity list). (Civilian count shall include Appropriated Fund personnel only.)

On Board Count as of 01 January 1994

	Officers	Enlisted	Civilian (Appropriated)
• Reporting Command	66	185	182
• Tenants (total)	N/A	N/A	N/A

Authorized Positions as of 30 September 1994

	Officers		Enlisted	Civilian (Appropriated)
• Reporting Command	~~68~~ 56	MED-825 CSA 7/7/94	~~164~~ /60	193
• Tenants (total)	N/A		N/A	N/A

11. KEY POINTS OF CONTACT (POC): Provide the work, FAX, and home telephone numbers for the Commanding Officer or OIC, and the Duty Officer. Include area code(s). You may provide other key POCs if so desired in addition to those above.

Title/Name	Office	Fax	Home
• CO/OIC			
Robert G. Walter, DC, USN	(301) 295-0021	(301) 295-2720	(301) 598-0141
• Duty Officer			[N/A]
	(301) 295-0283		
* Administrative Officer			
T. A. Klitzka, MSC, USN	(301) 295-0020		

12. TENANT ACTIVITY LIST: This list must be all-inclusive. Tenant activities are to ensure that their host is aware of their existence and any "subleasing" of space. This list should include the name and UIC(s) of all organizations, shore commands and homeported units, active or reserve, DOD or non-DOD (include commercial entities). The tenant listing should be reported in the format provide below, listed in numerical order by UIC, separated into the categories listed below. Host activities are responsible for including authorized personnel numbers, on board as of **30 September 1994**, for all tenants, even if those tenants have also been asked to provide this information on a separate Data Call. (Civilian count shall include Appropriated Fund personnel only.)

- Tenants residing on main complex (shore commands)

Tenant Command Name	UIC	Officer	Enlisted	Civilian
N/A				

- Tenants residing on main complex (homeported units.)

Tenant Command Name	UIC	Officer	Enlisted	Civilian
N/A				

- Tenants residing in Special Areas (Special Areas are defined as real estate owned by host command not contiguous with main complex; e.g. outlying fields).

Tenant Command Name	UIC	Location	Officer	Enlisted	Civilian
N/A					

- Tenants (Other than those identified previously)

Tenant Command Name	UIC	Location	Officer	Enlisted	Civilian
N/A					

13. REGIONAL SUPPORT: Identify your relationship with other activities, not reported as a host/tenant, for which you provide support. Again, this list should be all-inclusive. The intent of this question is capture the full breadth of the mission of your command and your customer/supplier relationships. Include in your answer any Government Owned/Contractor Operated facilities for which you provide administrative oversight and control.

Activity name	Location	Support function (include mechanism such as ISSA, MOU, etc.)
N/A		

14. FACILITY MAPS: This is a primary responsibility of the plant account holders/host commands. Tenant activities are not required to comply with submission if it is known that your host activity has complied with the request. Maps and photos should not be dated earlier than 01 January 1991, unless annotated that no changes have taken place. Any recent changes should be annotated on the appropriate map or photo. Date and label all copies. N/A.

- Local Area Map. This map should encompass, at a minimum, a 50 mile radius of your activity. Indicate the name and location of all DoD activities within this area, whether or not you support that activity. Map should also provide the geographical relationship to the major civilian communities within this radius. (Provide 12 copies.)

- Installation Map / Activity Map / Base Map / General Development Map / Site Map. Provide the most current map of your activity, clearly showing all the land under ownership/control of your activity, whether owned or leased. Include all outlying areas, special areas, and housing. Indicate date of last update. Map should show all structures (numbered with a legend, if available) and all significant restrictive use areas/zones that encumber further development such as HERO, HERP, HERF, ESQD arcs, agricultural/forestry programs, environmental restrictions (e.g., endangered species). (Provide in two sizes: 36"x42" (2 copies, if available); and 11"x17" (12 copies).)

- Aerial photo(s). Aerial shots should show all base use areas (both land and water) as well as any local encroachment sites/issues. You should ensure that these photos provide a good look at the areas identified on your Base Map as areas of concern/interest - remember, a picture tells a thousand words. Again, date and label all copies. (Provide 12 copies of each, 8½"x11".)

- Air Installations Compatible Use Zones (AICUZ) Map. (Provide 12 copies.)

BRAC-95 CERTIFICATION

Reference: SECNAVNOTE 11000 of 08 December 1993

In accordance with policy set forth by the Secretary of the Navy, personnel of the Department of the Navy, uniformed and civilian, who provide information for use in the BRAC-95 process are required to provide a signed certification that states "I certify that the information contained herein is accurate and complete to the best of my knowledge and belief."

The signing of this certification constitutes a representation that the certifying official has reviewed the information and either (1) personally vouches for its accuracy and completeness or (2) has possession of, and is relying upon, a certification executed by a competent subordinate.

Each individual in your activity generating information for the BRAC-95 process must certify that information. Enclosure (1) is provided for individual certifications and may be duplicated as necessary. You are directed to maintain those certifications at your activity for audit purposes. For purposes of this certification sheet, the commander of the activity will begin the certification process and each reporting senior in the Chain of Command reviewing the information will also sign this certification sheet. This sheet must remain attached to this package and be forwarded up the Chain of Command. Copies must be retained by each level in the Chain of Command for audit purposes.

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

ACTIVITY COMMANDER

R. G. WALTER, DC, USN
NAME

Signature Robert G Walter

Commanding Officer
Title

Date JUL 6 1994
6/7/94

Naval Medical Research Institute
Activity

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

DEPUTY CHIEF OF NAVAL OPERATIONS (LOGISTICS)
DEPUTY CHIEF OF STAFF (INSTALLATIONS & LOGISTICS)

J. B. GREENE, JR.
NAME (Please type or print)

Signature

ACTING
Title

15 JUL 1994
Date

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

NEXT ECHELON LEVEL (if applicable)

NAME (Please type or print) Signature

Title Date

Activity

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

NEXT ECHELON LEVEL (if applicable)

NAME (Please type or print) Signature

Title Date

Activity

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

MAJOR CLAIMANT LEVEL

D. F. HAGEN, VADM, MC, USN

NAME (Please type or print) Signature

CHIEF BUMED/SURGEON GENERAL

Title Date July 7, 1994

BUMED

Activity

Document Separator

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"LAB" JOINT CROSS-SERVICE GROUP GUIDANCE PACKAGE

Section I: Taskings
1.1 Guidelines
1.2 Standards
1.3 Assumptions
1.4 Measures of Merit
1.5 Activities
1.6 Common Support Functions

Section II: Capacity of DOD Components
2.1 Workload
2.2 Excess Capacity

Section III: Capability of Activities to Perform Common Support Functions
3.0 Mission
3.1 Location
3.2 Personnel
3.3 Workload
3.4 Facilities & Equipment
3.5 Expansion Potential

Section IV: Appendices
A. Macro Process/Schedule
B. List of Activities
C. Common Support Functions

See Revised Data Call

Appendix B

SECTION I: TASKING

In accordance with the Deputy Secretary of Defense memorandum dated 7 Jan 94, the Laboratory Joint Cross-Service Group (LJCSG) with DOD components should, where operationally and cost effective, strive to: retain in only one Service militarily unique capabilities used by two or more Services; consolidate workload across the Service to reduce capacity; and assign operational units from more than one Service to a single base. Specifically, the purpose of the LJCSG is:

- Determine common support functions and bases to be addressed by LJCSG
- Establish guidelines, standards, assumptions, measures of
  merit, data elements and milestone schedules for DOD Component
  conduct of cross-service analysis of common support functions
- Review excess capacity analysis
  - Develop closure or realignment alternatives
- Analyze cross-service trade-offs

The following information identifies to the Services common support functions and data element requirements necessary to support the cross-service analysis of these common support functions.

1.1 *Guidelines*

Because the DOD components are organized differently, "Lab" activities are considered to be those involved in the following life cycle efforts: Science and technology, and/or engineering development, and/or in-service engineering.

Service missions and force structure will be as stipulated in the FY1995-2000 Defense Planning Guidance and Interim Force Structure Plan.

The Military Departments will use the projected funding in the FY95 President's Budget Submission (Future Years Defense Plan -- FYDP) and an estimate of funds that will be received from outside the military department for execution.

If "lab" excess capacity exists, the Military Departments will start to reduce it where operationally and cost effective through a combination of downsizing in place within the departments, internal service consolidation, and cross service alternatives.

The Military Departments will gather, exchange, and analyze data collected per this guidance call for Common Support Functions (Appendix C) at "lab" activities (Appendix B) in accordance with the milestones and schedule dates identified in Appendix A.

Cross-service alternatives will result in an aggregate reduction in the overall "lab" infrastructure across the Military Departments -- personnel/funding/facilities and equipment.

Common cross-service Measures of Merit will be consistently applied for all cross-service alternatives.

Integration of weapon systems/components into operational forces will remain with the individual Military Departments responsible for those forces.

1.2 Standards

Evaluation of cross-service alternatives will be consistent with PL 101-510 (as amended) and the eight BRAC criteria. Only certified data will be used.

The COBRA cost model will be used to calculate estimated costs, estimated savings, and Return on Investment (ROI) of alternatives leading to proposed closures and realignments. Common inputs will be used for Military COBRA runs incorporating cross-service alternatives.

Military value analysis will be conducted by the Military Departments IAW Title 10, USC responsibilities.

1.3 Assumptions

"Lab" Common Support Functions and activities identified herein represent the major opportunities for developing cross-service alternatives. The Military Departments are not precluded from proposing other cross-service alternatives to reduce excess capacity as they assess the full complement of "lab" functions.
Previous BRAC decisions will be factored into cross-service alternatives.

"Lab" capacity will be based on budgeted workyears. A workyear is considered to be 2080 hours adjusted for time not on the job (e.g. sick leave, annual leave, etc.)

Appendix B

1.4 Measures of Merit

The following Measures of Merit represent the outcome from the DOD component final realignment and closure recommendations that are supported by the capabilities data which will be gathered by activity and common support function in Section III of this guidance.

- Reduction of "lab" infrastructure
- Return on investment (COBRA)
- Military value (BRAC criteria 1-4) -- the composite assessment of the quality of the remaining "lab" infrastructure

1.5 Activities

The Military Departments will collect capacity data for each "lab" activity identified in Appendix B. The "lab" activities were selected by considering all individual aggregates of personnel and facilities located at one base, under the same commander, performing predominantly science and technology (S&T), engineering development, and/or in-service engineering work. Small subelements of these "lab" activities were included with the activity. Larger subelements were broken out and defined as separate activities. The list of activities was then narrowed down to the list in Appendix B based on a joint Military Department assessment of common support functions with cross-service potential.

1.6 Common Support Functions

The common support functions (CSFs) were selected as shown in Appendix C based on a joint Military Department assessment of commonalty and cross-servicing potential. Common support functions which were already consolidated and being cross serviced were not included.

Common Support Functions are divided into two categories: product and pervasive. Product functions include all S&T, engineering development, and in-service engineering efforts associated with a product from all funding sources. Pervasive functions only include those efforts that are S&T funded, i.e. Technology Base (6.1)/Exploratory Development (6.2)/Advanced Development (6.3).

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SECTION II: CAPACITY OF DOD COMPONENTS

2.1 **Workload.** Use the following table to describe historic and projected workload at each activity in terms of funding and workyears. Assume previous BRAC closures and realignments are implemented on schedule. Projected funding will be derived from FY95 President's Budget Submission (Then year dollars). Past fiscal year data shall begin with FY86 or at the inception of the activity as it existed on 1 Oct 93. (BRAC Criteria I & IV)

Information Required	Fiscal Years											
	86	87	88	89	90	91	92	93	94	95	96	97
Total Funds Programmed ($M)	19,161.3	17,897.6	19,380.0	18,881.9	34,923.2	30,110.9	47,340.8	56,425.4	61,720.7	65,884.1	68,991.2	71,600.3
Total Actual Funds ($M)	373.0	390.0	135.1	299.1	566.8	718.5	1,844.5	2,972.7	[illegible]	[illegible]	[illegible]	[illegible]
Programmed Workyears						166	162	162	162	162	162	162
Actual Workyears						167	11.5	163				

- Budgeted workyears are the selected indicator of the "lab" infrastructure's capacity at an aggregate level for each Military Department. They include both workyears funded directly by the Military Department and the workyears funded from organizations outside the Military Department.

Workyears = government personnel and on-site FFRDCs and SETAs

2.2 **Excess "Lab" Capacity -- Measured at the DOD Component Level** N/A

- Excess "Lab" Capacity = Sum of the Peak Workyears - Sum of the Projected Workyears
  - -- Peak at each activity = Highest value between FY86 (or since inception of organization) and FY93
  - -- Projected at each activity = Estimated at FY97

SECTION III: CAPABILITY OF ACTIVITIES TO PERFORM COMMON SUPPORT FUNCTIONS (CSFs): Provide the information described for each common support function listed in Appendix C in which you are actively engaged.

3.0 Mission: Describe the major capabilities at your activity contributing to the common support function in bulletized format. Describe any relationship and interconnectivity with other functions (common or otherwise) in support of the overall activity mission.

To conduct research, development, test, and evaluations to enhance the health, safety, and readiness of Navy and Marine Corps personnel in the effective performance of peacetime and contingency missions, and to perform such other functions or tasks as may be directed by higher authority

3.1 Location

3.1.1 **Geographic/Climatological Features:** Describe any geographic/climatological features in and around your activity that are relevant to each CSF. Indicate and justify those that are required versus those that just serve to enhance accomplishing the mission of the activity. For example, clear air at high altitude that increases quality of atmospheric, ground-based laser experiments in support of the weapons CSF. (BRAC Criteria I) NONE

3.1.2 **Licenses & permits:** Describe and list the licenses or permits (e.g., environmental, safety, etc.) that your activity currently holds and justify why they are required to allow tests, experiments, or other special capabilities at your location for each CSF. For example, permit to store and use high explosives. (BRAC Criteria I)

Radiation Storage and Use Permit: Radioactive materials are used in 20% of our experiements.

3.1.3 **Environmental constraints:** Describe and list the environmental or land use constraints present at your activity which limit or restrict your current scope for each CSF, i.e., would not allow increased "volume" or "spectrum" for the CSF. Example -- Volume: frequency of a type of experiment. Example -- Spectrum: Current permit to detonate high explosives will not allow detonation or storage of increased quantity of explosives without legal waiver (state law) or relocation of surrounding (non-govt) buildings. (BRAC Criteria II)

N/A

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3.1.4 **Special Support Infrastructure:** List and describe the importance of any mission related special support infrastructure (e.g. utilities) present at your location for your activity. (BRAC Criteria I)

N/A

3.1.5. **Proximity to Mission-Related organizations:** List and describe the importance and impact of not having nearby organizations which facilitate accomplishing or performing your mission -- e.g. operational units, FFRDCs, universities/colleges, other government organizations, and commercial activities. Restrict your response to the top five. Complete the following: (BRAC Criteria I)

Common Support Functions	Name	Type of Organization	Distance	Workyears Performed by Your Activity	Workyears Funded by Your Activity

3.2 Personnel:

3.2.1 **Total Personnel:** What is the total number of government (military and civilian), on-site federally funded research and development center (FFRDC), and on-site system engineering technical assistance (SETA) personnel engaged in science and technology (S&T), engineering development and in-service engineering activities as of end FY93? For individuals that predominantly work in CSFs, involved in more than one CSF, account for those individuals in the CSF that represents the preponderance of their effort. (BRAC Criteria I)

Types of personnel	Number of Personnel			
	Government		On-Site FFRDC	On-Site SETA
	Civilian	Military		
Technical	111	192		
Management (Supv)	10	12		
Other	30	38		

3.2.2 **Education:** What is the number of government personnel actively engaged in S&T, engineering development and in-service engineering activities by highest degree and type of position? Provide the data in the following table: (BRAC Criteria I)

Type of Degree/ Diploma	Number of Government Personnel by Type of Position		
	Technical	Management (Supv)	Other
High School or Less	0	0	0
Associates	83		
Bachelor	37		
Masters	33		
Doctorate (include Med/Vet/etc.)	145		

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3.2.3 **Experience:** What is the experience level of government personnel? Fill in the number of government personnel in the appropriate boxes of the following table. (BRAC Criteria I)

Type of Position	Years of Government and/or Military Service				
	Less than 3 years	3-10 years	11-15 years	16-20 years	More than 20 years
Technical	54	93	59	65	32
Management (Supv)	0	2	1	2	17
Total	54	95	60	67	49

3.2.4 **Accomplishments During FY91-93:** For government personnel answer the following questions.

3.2.4.1 How many patents were awarded and patent disclosures (only count disclosures with issued disclosure numbers) were made? (BRAC Criteria I)

CSF	Disclosures	Awarded	Patent Titles (List)
Total			

3.2.4.2 How many papers were published in peer reviewed journals? (BRAC Criteria I)

CSF	Number Published	Paper Titles (List)
		Information Follows
TOTAL	359	

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3.3 Workload

3.3.1 **FY93 Workload**

3.3.1.1 **Work Year and Lifecycle:** Identify the number of actual workyears executed for each applicable CSF in FY93 for each of the following: government civilian; military; on-site FFRDCs; and on-site SETAs. (BRAC Criteria I)

"LAB"	Fiscal Year 1993 Actual			
	Civilian	Military	FFRDC	SETA
Science & Technology				
Engineering Development				
In-Service Engineering				

3.3.1.2 **Engineering Development By ACAT:** For each Common Support Function (e.g. airborne C4I) at each activity engaged in engineering development, provide:
- For each ACAT IC, ID, and II program (as defined in DODI 5000.2):
  - The name of the program
  - A brief program description
- For each ACAT III and IV programs:
  - The number of such programs
  - A list of program names
- For each program not an ACAT I, II, III, IV:
  - The number of such programs
  - A list of program names
- For the purpose of this question, any program between Milestone I and IV and containing demonstration and validation (Dem/Val 6.4)/Engineering and Manufacturing Development (EMD 6.5) funds in the FY95 PBS is considered to be engaged in engineering development (BRAC Criteria I).

Engineering Development	Name or Number	Workyears (FY93 Actual)	FY93 Funds Received (Obligation Authority)	Narrative
ACAT IC	(Name)			(Description)
ACAT ID	(Name)			(Description)
ACAT II	(Name)			(Description)

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ACAT III/IV	(Number)			(List)
Other	(Number)			(List)

3.3.1.3 **In-Service Engineering:** For each Common Support Function at each activity engaged in in-service engineering, list the in-service engineering efforts, the FY93 funds (from all sources) obligated for these efforts, the FY93 workyears for these efforts, and the weapon system(s) supported by these efforts. In-service engineering consists of all engineering support of fielded and/or out of production systems and includes efforts to improve cost, throughput, and schedule to support customer requirements as well as mods and upgrades for reliability, maintainability, and performance enhancements. (BRAC Criteria I)

Common Support Functions	In-Service Engineering Efforts (List)	FY93 Actual		Weapon System(s) Supported
		Funds Received (Obligation Authority)	Workyears	

3.3.2 **Projected Funding**

3.3.2.1 **Direct Funding:** For each applicable CSF, identify direct mission funding by appropriation from FY94 to FY97. Use FY95 PBS for FY95-FY97. (BRAC Criteria I)

CSF	FY94	FY95	FY96	FY97

3.3.2.2 **Other Obligation Authority:** For each applicable CSF, identify reimbursable and direct-cite funding (other obligation authority expected) from FY94 to FY97. Funding allocation must be traceable to FY95 PBS. (BRAC Criteria I)

CSF	FY94	FY95	FY96	FY97

3.4 Facilities and Equipment

3.4.1 **Major Equipment and Facilities:** Describe major facilities and equipment necessary to support each Common Support Function (include SCIFs). If the facilities and equipment are shared with other functions, identify those functions and the percentage of total time used by each of the functions. Provide labeled photographs that picture the breadth and scope of the equipment and facilities described. If it is unique to DOD, to the Federal Government, or to the US, describe why it is unique. Insert the replacement cost. For this exercise, Replacement cost = (Initial cost + capital investment) multiplied by the inflation factor for the original year of construction. (BRAC Criteria II)

Common Support Function	Major Facility or Equipment Description	Unique To			Replacement Cost ($K)
		DOD	Federal Gov't	U. S.	

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3.5 Expansion Potential

3.5.1 **Laboratory Facilities:** Use facilities records as of fourth-quarter FY93 in answering the following (in sq ft) for each CSF: (BRAC Criteria II)

Common Support Function	Facility or Equipment Description	Type of Space*	Space Capacity (KSI²)		
			Current	Used	Excess

* Administrative, Technical, Storage, Utility

3.5.1.1 Describe the capacity of your activity to absorb additional similar workyears categorized in the same common support function with minor facility modification. If major modification is required, describe to what extent the facilities would have to be modified. (Use FY97 workyears as your requirement) (BRAC Criteria III)

3.5.1.2 If there is capacity to absorb additional workyears, how many additional workyears can be supported? (BRAC Criteria III)

3.5.1.3 For 3.5.1.1 and 3.5.1.2 (above) describe the impact of military construction programs or other alteration projects programmed in the FY95 PBS. (BRAC Criteria II)

3.5.2 **Land Use:** Provide number of buildable acres for additional laboratory/administrative support construction at your installation. (BRAC Criteria II)

3.5.3 **Utilities:** Provide an estimate of your installation's capability to expand or procure additional utility services (electric, gas, water). Estimates should be provided in appropriate units -- e.g. KWH of electricity. (BRAC Criteria II)

Appendix B

SECTION IV: APPENDICES

A. Macro Process/Schedule
B. List of Activities
C. Common Support Functions

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APPENDIX C

COMMON SUPPORT FUNCTIONS
(DEFINITIONS LISTED FOLLOWING PAGES)

Product Functions

1. Air Vehicles
   - Fixed
     - -- Structure
     - -- Propulsion
     - -- Avionics
     - -- Flight Subsystems
   - Rotary
     - -- Structure
     - -- Propulsion
     - -- Avionics
     - -- Flight Subsystems

2. Weapons
   - ICBMs/SLBMs
   - Conventional Missiles/Rockets
   - Cruise Missiles
   - Guided Projectiles
   - Bombs
   - Guns and Ammunition
   - Directed Energy
   - Chemical/Biological

3. Space Systems
   - Launch Vehicles
   - Satellites
   - Ground Control Systems

4. C4I Systems
   - Airborne C4I
   - Fixed Ground-Based C4I
   - Ground Mobile C4I

Pervasive Functions

1. Electronic Devices
2. Environmental Sciences
3. Infectious Diseases
4. Human Systems
5. Manpower and Personnel
6. Training Systems
7. Environmental Quality
8. Advanced Materials

DEFINITIONS

COMMON SUPPORT FUNCTIONS

Product Functions

1. Air Vehicles. Air vehicles are broken out into common support functions for fixed wing and rotary wing. Includes but not limited to all science and technology, demonstration and validation, engineering development, and production activities which support employment and in-service engineering of air vehicles. Included are all air vehicles including their application as UAV's and targets.

- Structures. Includes but not limited to all air vehicles structure technology, engineering and production efforts. Include technology and engineering practices which advance structural design and analysis; advanced structural concepts and fabrication techniques; and structural integrity.

- Propulsion. Includes but not limited to all technology, engineering and production efforts associated with air vehicle propulsion such as turbine engine, rotorcraft power drive, and hypersonic propulsion components. Such components include compressors, inlets and nozzles, turbines, mechanical systems and control, gears, bearings, shafts, and clutches. In addition, include associated subsystems activities such as turborocket, turboramjet and rotorcraft transmissions; and supporting technical and engineering disciplines.

- Avionics. Includes but not limited to all technology, engineering and production efforts associated with the air platform's integrated avionics system. The avionics suite includes but is not limited to weapon delivery systems, electronic warfare, navigation, communications, radar, electro-optic sensors, signal/data processing and associated software system and support. Includes efforts associated with developing the integrated avionics system (i.e. optimizing functional partitioning, distribution and integration of avionics/related functions).

- Flight Subsystems. Includes but not limited to all technology, engineering and production efforts for air vehicle support systems such as landing gear; transparent crew enclosures; egress systems; mechanical equipment integrity; electrical component integrity; subsystem integration; and aircraft power, pressurization, and temperature control systems.

2. Weapons. Includes but not limited to all science and technology, demonstration and validation, engineering development, and production activities which support employment and in-service engineering of ICBMs/SLBMs, conventional missiles and rockets, cruise missiles, guided projectiles, bombs, guns and ammunition, directed energy and chemical/biological munitions. Include with each weapon as appropriate, all related technology, engineering and production activities such as fusing/safe and arm, missile propulsion, warheads and explosives, and guidance and control.

techniques for measuring and enhancing the productivity of the operational force.

6. Training Systems. Includes but not limited to all science and technology which support training of personnel, including training strategies, devices and simulators, and computer aided intelligent tutoring systems.

7. Environmental Quality. Includes but not limited to all science and technology activities which support the development of technologies to reduce the environmental costs of DOD operations while ensuring mission accomplishment is not jeopardized by adverse environmental impacts. Specifically, this area encompasses technologies to: (1) identify and cleanup sites contaminated with hazardous materials as a result of DOD operations (cleanup); (2) ensure DOD compliance with current and anticipated local, national, and international environmental laws and treaties (compliance); (3) minimize DOD use of hazardous materials and reduce DOD hazardous waste generation (pollution prevention); and (4) provide for protection of natural resources under DOD stewardship (conservation).

8. Advanced Materials. Includes but not limited to all science and technology activities related to structural, high temperature, electromagnetic protection, electronic, magnetic, optical, and biomolecular materials. Note: excludes materials areas which were included in DDR&E decision of 18 Mar 94 related to the Army's Materials Research Facility at Aberdeen Proving Ground and the Navy's Materials Facility at Carderock.

3. Space. Includes but not limited to all science and technology, demonstration and validation, engineering development, and production activities which support employment and in-service engineering of launch vehicles, satellites and associated ground control systems (satellite control only; ground systems for telemetry of data included in C4I). Include under satellites, all technology, engineering and production activities associated with space communications and space-based surveillance (and associated sensors) and space-based C4I.

4. C4I. Includes but not limited to all science and technology, demonstration and validation, engineering development, and production activities which support employment and in-service engineering of airborne, fixed ground-based and mobile ground based C4I systems. Include all technology, engineering and production activities associated with communications networks, radios and links, distributed information systems, data fusion, decision aids, and associated computer architectures.

Pervasive Functions (6.1, 6.2, and 6.3)

1. Electronic Devices. Includes but not limited to all science and technology activities supporting development of semiconductor and superconductor materials for optoelectronic, acoustic and microwave devices. Include all associated electronic materials/device fabrication and processing.

2. Environmental Sciences. Includes but not limited to all science and technology activities to improve measurement, characterization and modeling of the earth atmosphere and space environment. Examples include global prediction systems, space effects, and celestial backgrounds/astronomical reference sources.

3. Infectious Diseases. Includes but not limited to all science and technology activities which preserve manpower and performance by the prevention and treatment of militarily important infectious diseases that occur naturally worldwide.

4. Human Systems. Includes but not limited to all science and technology activities to enable, protect, sustain and enhance human effectiveness in DOD operations. The focus of this pervasive, multi-disciplinary area is the human and therefore impacts all DOD systems and operations. This area includes: (1) human performance definition, assessment, and aiding; (2) physiologic bioeffects of toxic hazards, ionizing and non-ionizing radiation, biodynamic (bio-mechanical) stress, and extreme environments; (3) military operational medicine; and (4) generic, human-centered design standards/methodologies for crew station subsystems, information management and display, and life support.

5. Manpower and Personnel. Includes but not limited to all science and technology activities which support four broad areas: (1) selection and classification of DOD personnel (including pilots); (2) identification of operational tasks performed and requirements for skills, knowledge, and aptitudes; (3) matching the right people with the jobs they are best suited for according to the needs of DOD, (4) and developing

BRAC-95 CERTIFICATION

Reference: SECNAVNOTE 11000 of 08 December 1993

In accordance with policy set forth by the Secretary of the Navy, personnel of the Department of the Navy, uniformed and civilian, who provide information for use in the BRAC-95 process are required to provide a signed certification that states "I certify that the information contained herein is accurate and complete to the best of my knowledge and belief."

The signing of this certification constitutes a representation that the certifying official has reviewed the information and either (1) personally vouches for its accuracy and completeness or (2) has possession of, and is relying upon, a certification executed by a competent subordinate.

Each individual in your activity generating information for the BRAC-95 process must certify that information. Enclosure (1) is provided for individual certifications and may be duplicated as necessary. You are directed to maintain those certifications at your activity for audit purposes. For purposes of this certification sheet, the commander of the activity will begin the certification process and each reporting senior in the Chain of Command reviewing the information will also sign this certification sheet. This sheet must remain attached to this package and be forwarded up the Chain of Command. Copies must be retained by each level in the Chain of Command for audit purposes.

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

ACTIVITY COMMANDER

R. G. WALTER
NAME (Please type or print)

Signature Robert G Walter
5/6/94

CAPT, DC, USN
Title

Date

NAVAL MEDICAL RESEARCH INSTITUTE
Activity

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

NEXT ECHELON LEVEL (if applicable)

E. T. FLYNN, CAPT, MC, USN
NAME (Please type or print)

Signature

COMMANDING OFFICER
Title

12 May 94
Date

Naval Medical Research and Development Command
Activity

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

NEXT ECHELON LEVEL (if applicable)

NAME (Please type or print)

Signature

Title

Date

Activity

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

MAJOR CLAIMANT LEVEL

RADM R. I. RIDENOUR
NAME (Please type or print)

Signature

ACTING CHIEF BUMED
Title

5-16-94
Date

BUREAU OF MEDICINE AND SURGERY
Activity

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

DEPUTY CHIEF OF NAVAL OPERATIONS (LOGISTICS)
DEPUTY CHIEF OF STAFF (INSTALLATIONS & LOGISTICS)

J.B. Greene, Jr.
NAME (Please type or print)

Signature

Acting
Title

19 May 1994
Date

Document Separator

"LAB"JOINT CROSS-SERVICE GROUP GUIDANCE PACKAGE

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Complete Revised Data Call

REPLACED BY COMPLETE REVISION DATED 16 SEP 94

SECTION I: TASKING

In accordance with the Deputy Secretary of Defense memorandum dated 7 Jan 94, the Laboratory Joint Cross-Service Group (LJCSG) with DOD components should, where operationally and cost effective, strive to: retain in only one Service militarily unique capabilities used by two or more Services; consolidate workload across the Service to reduce capacity; and assign operational units from more than one Service to a single base. Specifically, the purpose of the LJCSG is:

- Determine common support functions and bases to be addressed by LJCSG
- Establish guidelines, standards, assumptions, measures of
  merit, data elements and milestone schedules for DOD Component
  conduct of cross-service analysis of common support functions
- Review excess capacity analysis
  - Develop closure or realignment alternatives
- Analyze cross-service trade-offs

The following information identifies to the Services common support functions and data element requirements necessary to support the cross-service analysis of these common support functions.

1.1 Guidelines

Because the DOD components are organized differently, "Lab" activities are considered to be those involved in the following life cycle efforts: Science and technology, and/or engineering development, and/or in-service engineering.

Service missions and force structure will be as stipulated in the FY1995-2000Defense Planning Guidance and Interim Force Structure Plan.

The Military Departments will use the projected funding in the FY95 President's Budget Submission (Future Years Defense Plan -- FYDP) and an estimate of funds that will be received from outside the military department for execution.

If "lab" excess capacity exists, the Military Departments will start to reduce it where operationally and cost effective through a combination of downsizing in place within the departments, internal service consolidation, and cross service alternatives.

The Military Departments will gather, exchange, and analyze data collected per this guidance call for Common Support Functions (Appendix C) at "lab" activities (Appendix B) in accordance with the milestones and schedule dates identified in Appendix A.

Cross-service alternatives will result in an aggregate reduction in the overall "lab" infrastructure across the Military Departments -- personnel/funding/facilities and equipment.

Common cross-service Measures of Merit will be consistently applied for all cross-service alternatives.

Integration of weapon systems/components into operational forces will remain with the individual Military Departments responsible for those forces.

1.2 Standards

Evaluation of cross-service alternatives will be consistent with PL 101-510(as amended) and the eight BRAC criteria. Only certified data will be used.

The COBRA cost model will be used to calculate estimated costs, estimated savings, and Return on Investment (ROI) of alternatives leading to proposed closures and realignments. Common inputs will be used for Military COBRA runs incorporating cross-service alternatives.

Military value analysis will be conducted by the Military Departments IAW Title 10, USC responsibilities.

1.3 Assumptions

"Lab"Common Support Functions and activities identified herein represent the major opportunities for developing cross-service alternatives. The Military Departments are not precluded from proposing other cross-service alternatives to reduce excess capacity as they assess the full complement of "lab" functions.
Previous BRAC decisions will be factored into cross-service alternatives.

"Lab" capacity will be based on budgeted workyears. A workyear is considered to be 2080 hours adjusted for time not on the job (e.g. sick leave, annual leave, etc.)

1.4 Measures of Merit

The following Measures of Merit represent the outcome from the DOD component final realignment and closure recommendations that are supported by the capabilities data which will be gathered by activity and common support function in Section III of this guidance.

- Reduction of "lab" infrastructure
- Return on investment (COBRA)
- Military value (BRAC criteria 1-4) -- the composite assessment of the quality of the remaining "lab" infrastructure

1.5 Activities

The Military Departments will collect capacity data for each "lab" activity identified in Appendix B. The "lab" activities were selected by considering all individual aggregates of personnel and facilities located at one base, under the same commander, performing predominantly science and technology (S&T), engineering development, and/or in-service engineering work. Small subelements of these "lab" activities were included with the activity. Larger subelements were broken out and defined as separate activities. The list of activities was then narrowed down to the list in Appendix B based on a joint Military Department assessment of common support functions with cross-service potential.

1.6 Common Support Functions

The common support functions (CSFs) were selected as shown in Appendix C based on a joint Military Department assessment of commonalty and cross-servicing potential. Common support functions which were already consolidated and being cross serviced were not included.

Common Support Functions are divided into two categories: product and pervasive. Product functions include all S&T, engineering development, and in-service engineering efforts associated with a product from all funding sources. Pervasive functions only include those efforts that are S&T funded, i.e. Technology Base (6.1)/Exploratory Development (6.2)/Advanced Development (6.3).

SECTION II: CAPACITY OF DOD COMPONENTS

2.1 **Workload.** Use the following table to describe historic and projected workload at each activity in terms of funding and workyears. Assume previous BRAC closures and realignments are implemented on schedule. Projected funding will be derived from FY95 President's Budget Submission (Then year dollars). Past fiscal year data shall begin with FY86 or at the inception of the activity as it existed on 1 Oct 93. (BRAC Criteria I & IV)

Information Required	Fiscal Years											
	86	87	88	89	90	91	92	93	94	95	96	97
Total Funds Programmed ($M)	19,161.3	17,897.6	19,380.0	18,881.9	34,923.2	30,110.9	47,340.8	56,425.4	61,720.7	65,884.1	68,991.2	71,600.3
Total Actual Funds ($M)	373.0	390.0	135.1	299.1	566.8	718.5	1,844.5	2,972.7				
Programmed Workyears	172	172	172	172	172	172	167	162	162	162	162	162
Actual Workyears	171	171	171	171	171	171	166	163				

- Budgeted workyears are the selected indicator of the "lab" infrastructure's capacity at an aggregate level for each Military Department. They include both workyears funded directly by the Military Department and the workyears funded from organizations outside the Military Department.

Workyears = government personnel and on-site FFRDCs and SETAs

2.2 **Excess "Lab" Capacity -- Measured at the DOD Component Level** N/A

- Excess "Lab" Capacity = Sum of the Peak Workyears - Sum of the Projected Workyears
  -- Peak at each activity = Highest value between FY86 (or since inception of organization) and FY93
  -- Projected at each activity = Estimated at FY97

SECTION III: CAPABILITY OF ACTIVITIES TO PERFORM COMMON SUPPORT FUNCTIONS (CSFs): Provide the information described for each common support function listed in Appendix C in which you are actively engaged.

3.0 Mission: Describe the major capabilities at your activity contributing to the common support function in bulletized format. Describe any relationship and interconnectivity with other functions (common or otherwise) in support of the overall activity mission.

To conduct research, development, test, and evaluations to enhance the health, safety, and readiness of Navy and Marine Corps personnel in the effective performance of peacetime and contingency missions, and to perform such other functions or tasks as may be directed by higher authority

* Conduct basic and applied research on Diving and Hyperbaric Medicine.

* Conduct basic and applied research on Blood Preservation, Enhanced Reconstitution of Normal Blood Cell Components, and the Development of Artificial Blood Substitutes.

* Conduct basic and applied research on Tissue and Organ Transplantation.

* Conduct basic and applied research on the Development of Vaccines and Other Methods for the Prevention, Rapid Diagnosis, and Treatment of Infectious Diseases.

* Conduct basic and applied research on Environmental Medicine, and the Improvement of the Performance of Navy and Special Forces Personnel in difficult

environments.

* Provide administrative support and execution oversight to Detachments conducting Toxicology Research at Wright-Patterson AFB, OH; Electromagnetic Radiation Research at Brooks AFB, TX; and Infectious Diseases Research at Lima, Peru.

* Provide a source of personnel, trained in state-of-the-art medical technology, for deployment in specialized field laboratories and as advisors or consultants in the application of new biomedical knowledge to urgent operational problems.

Projected Missions for FY 2001

* Continue basic and applied research on Diving and Hyperbaric Medicine; Blood Preservation, Reconstitution, and Substitute Development; Tissue and Organ Transplantation; and Environmental Medicine and Personnel Performance.

* Continue to provide a source for specially trained personnel for the optimal use of biomedical technology to solve operational problems.

* Assume execution responsibilities for the current headquarters command (Naval Medical Research and Development Command) and provide administrative support and execution oversight of current Detachments and those other Navy Medical Laboratory Activities scheduled for downsizing under BRAC programmed consolidations (Pensacola, New London, Great Lakes).

* Provide support and coordination for Navy personnel and Navy-unique program requirements for the BRAC consolidated Defense Infectious Diseases Research to be conducted at the Walter Reed Army Institute of Research.

Current Unique Missions

* Conduct basic and applied research on Diving and Hyperbaric Medicine.

* Conduct basic and applied research on Blood Preservation beyond Current FDA-approved Shelf Life, and the Use of Stem Cells for Enhanced Reconstitution of Normal Blood Cell Components.

* Provide administrative support and execution oversight to Detachments conducting Toxicology Research at Wright-Patterson AFB, OH; Electromagnetic Radiation Research at Brooks AFB, TX; and Infectious Diseases Research at Lima, Peru.

Provide a source of personnel, trained in state-of-the-art medical technology, for deployment in specialized field laboratories and as advisors or consultants in the application of new biomedical knowledge to urgent operational problems.

Projected Unique Missions for FY 2001

* Continue basic and applied research on Diving and Hyperbaric Medicine, and Blood Preservation and Reconstitution.

* Continue to provide a source for specially trained personnel for the optimal use of biomedical technology to solve operational problems.

* Assume execution responsibilities for the current headquarters command (Naval Medical Research and Development Command) and provide administrative support and execution oversight of current Detachments and those other Navy Medical Laboratory Activities scheduled for downsizing under BRAC programmed consolidations (Pensacola, New London, Great Lakes).

* Provide support and coordination for Navy personnel and Navy-unique program requirements for the BRAC consolidated Defense Infectious Diseases Research to be conducted at the Walter Reed Army Institute of Research.

3.1 Location

3.1.1 **Geographic/Climatological Features:** Describe any geographic/climatological features in and around your activity that are relevant to each CSF. Indicate and justify those that are required versus those that just serve to enhance accomplishing the mission of the activity. For example, clear air at high altitude that increases quality of atmospheric, ground-based laser experiments in support of the weapons CSF. (BRAC Criteria I)

Infectious Disease: Lima, Peru Detachment provides a critical location for research in the areas of Chlorera, HIV, Enteric Diseases and Dengue Fever

Manpower and Personnel: Lima Peru Detachment Civilian staff provides Nationals familiar with the area and technical expertise in the areas previosly mnetioned.

3.1.2 **Licenses & permits:** Describe and list the licenses or permits (e.g., environmental, safety, etc.) that your activity currently holds and justify why they are required to allow tests, experiments, or other special capabilities at your location for each CSF. For example, permit to store and use high explosives. (BRAC Criteria I)

Radiation Storage and Use Permit: Radioactive materials are used in 20% of our experiments.

3.1.3 **Environmental constraints:** Describe and list the environmental or land use constraints present at your activity which limit or restrict your current scope for each CSF, i.e., would not allow increased "volume" or "spectrum" for the CSF. Example -- Volume: frequency of a type of experiment. Example -- Spectrum: Current permit to detonate high explosives will not allow detonation or storage of increased quantity of explosives without legal waiver (state law) or relocation of surrounding (non-govt) buildings. (BRAC Criteria II)

None.

3.1.4 **Special Support Infrastructure:** List and describe the importance of any mission related special support infrastructure (e.g. utilities) present at your location for your activity. (BRAC Criteria I)

Hyperbaric Chamber.
Animal Housing Facility.

3.1.5. **Proximity to Mission-Related organizations:** List and describe the importance and impact of not having nearby organizations which facilitate accomplishing or performing your mission -- e.g. operational units, FFRDCs, universities/colleges, other government organizations, and commercial activities. Restrict your response to the top five. Complete the following: (BRAC Criteria I)

Common Support Functions	Name	Type of Organization	Distance	Workyears Performed by Your Activity	Workyears Funded by Your Activity

N/A RUMED
MED 825
GSA
7/28/94

3.2 Personnel:

3.2.1 **Total Personnel:** What is the total number of government (military and civilian), on-site federally funded research and development center (FFRDC), and on-site system engineering technical assistance (SETA) personnel engaged in science and technology (S&T), engineering development and in-service engineering activities as of end FY93? For individuals that predominantly work in CSFs, involved in more than one CSF, account for those individuals in the CSF that represents the preponderance of their effort. (BRAC Criteria I)

Types of personnel	Number of Personnel			
	Government		On-Site FFRDC	On-Site SETA
	Civilian	Military		
Technical	111	192		
Management (Supv)	10	12		
Other	30	38		

3.2.2 **Education:** What is the number of government personnel actively engaged in S&T, engineering development and in-service engineering activities by highest degree and type of position? Provide the data in the following table: (BRAC Criteria I)

Type of Degree/ Diploma	Number of Government Personnel by Type of Position		
	Technical	Management (Supv)	Other
High School or Less	0	0	0
Associates	88	0	42
Bachelor	37	0	20
Masters	33	4	4
Doctorate (include Med/Vet/etc.)	145	18	2

3.2.3 **Experience:** What is the experience level of government personnel? Fill in the number of government personnel in the appropriate boxes of the following table. (BRAC Criteria I)

Type of Position	Years of Government and/or Military Service				
	Less than 3 years	3-10 years	11-15 years	16-20 years	More than 20 years
Technical	54	93	59	65	32
Management (Supv)	0	2	1	2	17
Total	54	95	60	67	49

3.2.4 **Accomplishments During FY91-93:** For government personnel answer the following questions.

3.2.4.1 How many patents were awarded and patent disclosures (only count disclosures with issued disclosure numbers) were made? (BRAC Criteria I)

CSF	Disclosures	Awarded	Patent Titles (List)
		8	
		0	
Total		8	

NAVAL MEDICAL RESEARCH INSTITUTE'S
ISSUED PATENTS AND SIR'S

Number Inventory Issue Date
Title

5,039,493 Oprandy August 13, 1991 71,885
Positive Pressure Blotting apparatus with Hydropholic Filter Means

5,093,235 Williams et al. March 3, 1992 70,664
Immuno-Dye Reagent and Assay for Detection of Endotoxin

5,095,093 Hoffman et al. March 10, 1992 72,634
Protective Four Amino Acid Epitope Against Plasmodium Vivax Malaria

5,162,990 Odeyale et al. November 10, 1992 72,807
System and Method for Quantifying Macrophage Phagocytosis by Computer Image Analysis

5,198,535 Hoffman et al. March 30, 1993 73,254
Protective Malaria Sporozoite Surface Protein Immunogen and Gene

5,200,312 Oprandy April 6, 1993 74,163
Membrane Based Dot Immunoassay and Method of Use

(SIR) H1168 McKenna et al. April 6, 1994 73,588
Inhibitors of Protein Kinase C Activity as Protectors Against Septic Shock and Reducers of ARDS

5,299,567 Joye et al. April 5, 1994 78,870
Minimal Elastance, Closed-Circuit Underwater Breathing Apparatus

3.2.4.2 How many papers were published in peer reviewed journals? (BRAC Criteria I)

CSF	Number Published	Paper Titles (List)
Infectious Disease	142	Information Follows
TOTAL	142	

NMRI 91-0001
D'ALESANDRO MM MALIK MJ REED HL
PLASMA CATECHOLAMINE DEGRADATION WITH LONG-TERM STORAGE.
NMRI REPORT. JANUARY 22, 1991.
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CHAROENVIT Y MELLOUK S COLE C
BECHARA R LEEF MF SEDEGAH M
YUAN LF ROBEY FA BEAUDOIN RL
HOFFMAN SL

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JOURNAL OF IMMUNOLOGY 1991 FEB.1;146(3):1020-5

NMRI 91-0003
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BEHAVIORAL AND NEURAL BIOLOGY 1991;55:19-30

NMRI 91-0004
CENA V HALPERIN JI YEANDLE S
KLEIN DC
NOREPINEPHRINE STIMULATES POTASSIUM EFFLUX FROM PINEALOCYTES: EVIDENCE FOR INVOLVEMENT OF BIOCHEMICAL "AND" GATE OPERATED BY CALCIUM AND ADENOSINE 3',5'-MONOPHOSPHATE.
ENDOCRINOLOGY 1991;128(1):559-69

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JOHNSON AH HURLEY CK HARTZMAN RJ
ALPER CA YUNIS EJ
HLA: THE MAJOR HISTOCOMPATIBILITY COMPLEX OF MAN.
IN: CLINICAL DIAGNOSIS AND MANAGEMENT BY LABORATORY METHODS. 18th EDITION. EDITED BY JOHN BERNARD HENRY.
PHILA, SAUNDERS 1991. PP. 761-94

NMRI 91-0006
KANG YH WILLIAMS R
ENDOTOXIN-INDUCED ENDOTHELIAL INJURY AND SUBENDOTHELIAL ACCUMULATION OF FIBRONECTIN IN RAT AORTA.
ANATOMICAL RECORD 1991 JAN;229(1):86-102

NMRI 91-0007
REED HL KOWALSKI KR D'ALESANDRO MM
ROBERTSON R LEWIS SB
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CLARKE JR
OPTIMAL HYDROSTATIC LOADING FOR CLOSED-CIRCUIT UNDERWATER BREATHING APPARATUS DESIGN.
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VAN ORDEN KF STURR JF
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NMRI 91-0010
HYAMS KC HUSSAIN MA AL-ARABI MA
AL-HUDA ATALLAH N EL-TIGANI A MCCARTHY MC
ACUTE SPORADIC HEPATITIS IN SUDANESE CHILDREN.
JOURNAL OF MEDICAL VIROLOGY 1991 FEB;33(2):73-6

NMRI 91-0011
HOFFMAN SL
PREVENTION OF MALARIA. (EDITORIAL).
JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION 1991 JAN 16; 265(3):398-9

NMRI 91-0012
PHILLIPS I HYAMS KC WIGNALL FS
MORAN AY GOTUZZO E SANCHEZ J
ROBERTS CR
HTLV-I COINFECTION IN A HIV-1-INFECTED PERUVIAN POPULATION.
(LETTER).
JOURNAL OF ACQUIRED IMMUNE DEFICIENCY SYNDROMES 1991;4(3):
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IN: MANUAL OF CLINICAL MICROBIOLOGY. 5TH ED. EDITOR IN
CHIEF, ALBERT BALOWS; EDITORS, WILLIAM J. HAUSLER, JR
ET AL. WASHINGTON, D.C.: AMERICAN SOCIETY FOR
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OPRANDY JJ NIELSEN TB KANG YH
RETROVIRAL TRANSFORMATION OF CEREBRAL MICROVASCULAR
ENDOTHELIAL CELLS: MACROPHAGE-LIKE AND MICROVASCULAR
ENDOTHELIAL CELL PROPERTIES.
BLOOD 1991 JAN 15;77(2):294-305

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WIEDER R CORNETTA K KESSLER SW
ANDERSON WF
INCREASED EFFICIENCY OF RETROVIRAL-MEDIATED GENE TRANSFER
AND EXPRESSION IN PRIMATE BONE MARROW PROGENITORS AFTER
5-FLUOROURACIL-INDUCED HEMATOPOIETIC SUPPRESSION AND
RECOVERY.
BLOOD 1991 FEB 1;77(3):448-55

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MILLET P YUAN L CAMPBELL GH
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INABILITY OF MALARIA VACCINE TO INDUCE ANTIBODIES TO A
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CD34+ BONE MARROW PROGENITOR CELLS.
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SIECKMANN DG STALL AM SUBBARAO B
A MOUSE MONOCLONAL ANTIBODY SPECIFIC FOR AN ALLOTYPIC
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BAQAR S PACHECO ND ROLLWAGEN FM
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FLETCHER MC SAMELSON LE JUNE CH
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JOURNAL OF BIOLOGICAL CHEMISTRY 1993 NOV 5;268(31): 23697-703

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MALIK A GROSS M ULRICH T
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HYAMS KC PHILLIPS IA TEJADA A
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THREE-YEAR INCIDENCE STUDY OF RETROVIRAL AND VIRAL HEPATITIS TRANSMISSION IN A PERUVIAN PROSTITUTE POPULATION.
JOURNAL OF ACQUIRED IMMUNE DEFICIENCY SYNDROMES 1993;6(12): 1353-7

NMRI 93-0094
SAVARINO SJ
DIARRHOEAL DISEASE: CURRENT CONCEPTS AND FUTURE CHALLENGES: ENTEROADHERENT ESCHERICHIA COLI: A HETEROGENEOUS GROUP OF E._COLI IMPLICATED AS DIARRHOEAL PATHOGENS.
TRANSACTIONS OF THE ROYAL SOCIETY OF TROPICAL MEDICINE AND HYGIENE 1993;87(SUPPL.3):49-53

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SAVARINO SJ BOURGEOIS AL
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TRANSACTIONS OF THE ROYAL SOCIETY OF TROPICAL MEDICINE AND HYGIENE 1993;87(SUPPL.3):7-11

NMRI 93-0104
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GRAY GC
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EGAN JE HOFFMAN SL HAYNES JD
SADOFF JC SCHNEIDER I GRAU GE
HOLLINGDALE MR BALLOU WR GORDON DM
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AMERICAN JOURNAL OF TROPICAL MEDICINE AND HYGIENE 1993; 49(2):166-73

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WEISS WR SEDEGAH M BERZOFSKY JA
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JOURNAL OF IMMUNOLOGY 1993 SEP 1;151(5):2690-8

NMRI 93-0107
ROLLWAGEN FM PACHECO ND BAQAR S
AN IMPROVED MODEL FOR THE EXAMINATION OF BIOLOGICAL EFFECTS OF LOCALLY ADMINISTERED CYTOKINES.
JOURNAL OF IMMUNOLOGICAL METHODS 1993;166:223-32

3.3 Workload

3.3.1 **FY93 Workload**

3.3.1.1 **Work Year and Lifecycle:** Identify the number of actual workyears executed for each applicable CSF in FY93 for each of the following: government civilian; military; on-site FFRDCs; and on-site SETAs. (BRAC Criteria I) *The following information does not include the thirty six foreign nationals assigned to the Lima Detachment.

"LAB"	Fiscal Year 1993 Actual			
	Civilian	Military	FFRDC	SETA
Science & Technology	55.1	51.6		
Engineering Development				
In-Service Engineering				

3.3.1.2 **Engineering Development By ACAT:** For each Common Support Function (e.g. airborne C4I) at each activity engaged in engineering development, provide: None.
- For each ACAT IC, ID, and II program (as defined in DODI 5000.2):
  - The name of the program
  - A brief program description
- For each ACAT III and IV programs:
  - The number of such programs
  - A list of program names
- For each program not an ACAT I, II, III, IV:
  - The number of such programs
  - A list of program names
- For the purpose of this question, any program between Milestone I and IV and containing demonstration and validation (Dem/Val 6.4)/Engineering and Manufacturing Development (EMD 6.5) funds in the FY95 PBS is considered to be engaged in engineering development (BRAC Criteria I).

N/A BUMED MED 825 GSA 7/28/94

Engineering Development	Name or Number	Workyears (FY93 Actual)	FY93 Funds Received (Obligation Authority)	Narrative

ACAT IC	(Name)			(Description)
ACAT ID	(Name)			(Description)
ACAT II	(Name)			(Description)
ACAT III/IV	(Number)			(List)
Other	(Number)			(List)

3.3.1.3 **In-Service Engineering:** For each Common Support Function at each activity engaged in in-service engineering, list the in-service engineering efforts, the FY93 funds (from all sources) obligated for these efforts, the FY93 workyears for these efforts, and the weapon system(s) supported by these efforts. In-service engineering consists of all engineering support of fielded and/or out of production systems and includes efforts to improve cost, throughput, and schedule to support customer requirements as well as mods and upgrades for reliability, maintainability, and performance enhancements. (BRAC Criteria I)

Common Support Functions	In-Service Engineering Efforts (List)	FY93 Actual		Weapon System(s) Supported
N/A	BOMED GSA MED 825 7/28/94	Funds Received (Obligation Authority)	Workyears	

3.3.2 **Projected Funding**

3.3.2.1 **Direct Funding:** For each applicable CSF, identify direct mission funding by appropriation from FY94 to FY97. Use FY95 PBS for FY95-FY97. (BRAC Criteria I)

CSF	FY94	FY95	FY96	FY97
Infectious Disease	9,709,000	10,000,270	10,300,278	10,609,286
Manpower/Personnel	1,839,187	1,894,362	1,949,537	2,008,023

3.3.2.2 **Other Obligation Authority:** For each applicable CSF, identify reimbursable and direct-cite funding (other obligation authority expected) from FY94 to FY97. Funding allocation must be traceable to FY95 PBS. (BRAC Criteria I)

CSF	FY94	FY95	FY96	FY97
Infectious Disease	373,500	384,705	396,246	408,133

3.4 Facilities and Equipment

3.4.1 **Major Equipment and Facilities:** Describe major facilities and equipment necessary to support each Common Support Function (include SCIFs). If the facilities and equipment are shared with other functions, identify those functions and the percentage of total time used by each of the functions. Provide labeled photographs that picture the breadth and scope of the equipment and facilities described. If it is unique to DOD, to the Federal Government, or to the US, describe why it is unique. Insert the replacement cost. For this exercise, Replacement cost = (Initial cost + capital investment) multiplied by the inflation factor for the original year of construction. (BRAC Criteria II)

The Infectious Disease Department is housed in facilities onboard the National Naval Medical Center, Bethesda, Maryland Complex, an Annex facility in Rockville, Maryland and a Detachment in Lima, Peru. Neither the laboratories or administrative spaces in Maryland are shared. The Lima, Peru spaces are shared with the Peruvian Navy. The Bethesda, Maryland facility is located in a fifty-two year old building and owned by the Navy/Government, The Rockville, Maryland facility is leased. Approximate replacement of a combined facility is $30,000,000plus.

Common Support Function	Major Facility or Equipment Description	Unique To			Replacement Cost ($K)
		DOD	Federal Gov't	U. S.	
Infectious Disease	Department Head Office, NMRI, Bethesda, Maryland				Combined $30,000,000
	Rockville, Maryland Annex				
	Lima, Peru Detachment				

3.5 Expansion Potential

3.5.1 **Laboratory Facilities:** Use facilities records as of fourth-quarter FY93 in answering the following (in sq ft) for each CSF: (BRAC Criteria II)

Common Support Function	Facility or Equipment Description	Type of Space*	Space Capacity (KSF)		
			Current	Used	Excess
Infectious Disease		Technical	18,485	18,485	0
		Administration	3,120	3,120	0
		Storage/Utility	5,880.90	5,880.90	0

* Administrative, Technical, Storage, Utility

3.5.1.1 Describe the capacity of your activity to absorb additional similar workyears categorized in the same common support function with minor facility modification. If major modification is required, describe to what extent the facilities would have to be modified. (Use FY97 workyears as your requirement) (BRAC Criteria III)

The Naval Medical Research Institute has no capacity for expansion following acceptance of two milcon projects scheduled for start dates in FY95. A nine million dollar plus Animal Facility and a nine million dollar Blood Research Facility will remove any capacity for expansion.

3.5.1.2 If there is capacity to absorb additional workyears, how many additional workyears can be supported? (BRAC Criteria III) None.

3.5.1.3 For 3.5.1.1and 3.5.1.2(above) describe the impact of military construction programs or other alteration projects programmed in the FY95 PBS. (BRAC Criteria II)

The MILCON projects noted in 3.5.1.1will remove any capacity for expansion.

3.5.2 **Land Use:** Provide number of buildable acres for additional laboratory/administrative support construction at your installation. (BRAC Criteria II)

The MILCON projects noted in 3.5.1.1will remove any capacity for expansion.

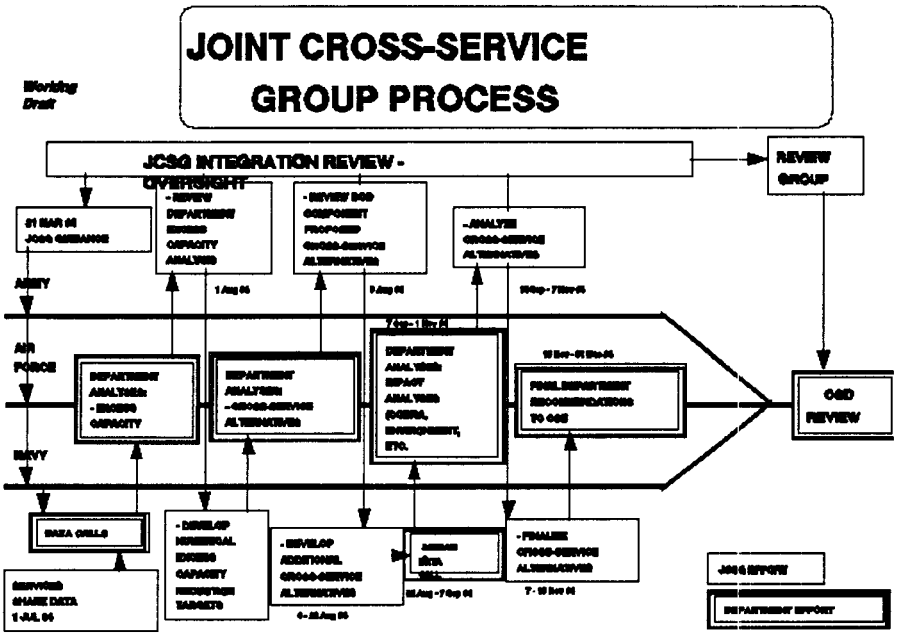
3.5.3 **Utilities:** Provide an estimate of your installation's capability to expand or procure additional utility services (electric, gas, water). Estimates should be provided in appropriate units -- e.g. KWH of electricity. (BRAC Criteria II)

The Naval Medical Research Institute is functioning at maximum capacity. The new facilities will not draw their utilities from the current buildings.

SECTION IV: APPENDICES

A. Macro Process/Schedule
B. List of Activities
C. Common Support Functions

APPENDIX A



23. Construction Engineering Research Laboratory, Champaign, IL
24. Cold Regions Research and Engineering Lab, Hanover, NH
25. Topographic Engineering Center, Alexandria, VA
26. Waterways Experiment Station, Vicksburg, MS
27. USA Research Institute for Behavioral & Social Sciences, Alexandria, VA
28. Simulation, Training and Instrumentation Command (STRICOM), Orlando, FL

NAVY

1. Naval Air Warfare Center, Weapons Division, China Lake
2. Naval Air Warfare Center, Weapons Division, Point Mugu
3. Naval Air Warfare Center, Aircraft Division, Patuxent River
4. Naval Air Warfare Center, Aircraft Division, Indianapolis
5. Naval Air Warfare Center, Aircraft Division, Lakehurst
6. Naval Research Lab, Washington D.C.
7. Naval Research Lab Detachment, Bay St Louis
8. Naval Surface Warfare Center, Carderock Division, Bethesda
9. Naval Surface Warfare Center, Carderock Detachment, Annapolis
10. Naval Surface Warfare Center, Crane Division
11. Naval Surface Warfare Center, Crane Detachment, Louisville
12. Naval Surface Warfare Center, Dahlgren Division
13. Naval Surface Warfare Center, Dahlgren Detachment, Panama City
14. Naval Surface Warfare Center, Indian Head Division
15. Naval Surface Warfare Center, Port Hueneme Division
16. Naval Command, Control, and Ocean Surveillance Center, RDT&E Division, San Diego
17. Naval Command, Control, and Ocean Surveillance Center, In-Service Engineering, West Coast Division, San Diego
18. Naval Command, Control, and Ocean Surveillance Center, In-Service Engineering Division, Charleston
19. Naval Aerospace Medical Research Center, Pensacola
20. Naval Biodynamics Lab, New Orleans
21. Naval Dental Research Lab, Great Lakes
22. Naval Health Research Center, San Diego
23. Naval Medical Research Institute, Bethesda
24. Naval Undersea Warfare Center, Keyport Division, WA
25. Naval Surface Warfare Center, Carderock, Philadelphia Detachment
26. Naval Undersea Warfare Center, Newport, RI
27. Naval Undersea Warfare Center (Newport), New London, CT
28. Naval Personnel Research and Development Center, San Diego, CA

DEPARTMENT OF DEFENSE

1. Armed Forces Radiobiology Research Institute (AFRRI), Bethesda, MD

APPENDIX C

COMMON SUPPORT FUNCTIONS
(DEFINITIONS LISTED FOLLOWING PAGES)

Product Functions

1. Air Vehicles
   - Fixed
     - -- Structure
     - -- Propulsion
     - -- Avionics
     - -- Flight Subsystems
   - Rotary
     - -- Structure
     - -- Propulsion
     - -- Avionics
     - -- Flight Subsystems

2. Weapons
   - ICBMs/SLBMs
   - Conventional Missiles/Rockets
   - Cruise Missiles
   - Guided Projectiles
   - Bombs
   - Guns and Ammunition
   - Directed Energy
   - Chemical/Biological

3. Space Systems
   - Launch Vehicles
   - Satellites
   - Ground Control Systems

4. C4I Systems
   - Airborne C4I
   - Fixed Ground-Based C4I
   - Ground Mobile C4I

Pervasive Functions

1. Electronic Devices
2. Environmental Sciences
3. Infectious Diseases
4. Human Systems
5. Manpower and Personnel
6. Training Systems
7. Environmental Quality
8. Advanced Materials

DEFINITIONS

COMMON SUPPORT FUNCTIONS

Product Functions

1. **Air Vehicles.** Air vehicles are broken out into common support functions for fixed wing and rotary wing. Includes but not limited to all science and technology, demonstration and validation, engineering development, and production activities which support employment and in-service engineering of air vehicles. Included are all air vehicles including their application as UAV's and targets.

- Structures. Includes but not limited to all air vehicles structure technology, engineering and production efforts. Include technology and engineering practices which advance structural design and analysis; advanced structural concepts and fabrication techniques; and structural integrity.

- Propulsion. Includes but not limited to all technology, engineering and production efforts associated with air vehicle propulsion such as turbine engine, rotorcraft power drive, and hypersonic propulsion components. Such components include compressors, inlets and nozzles, turbines, mechanical systems and control, gears, bearings, shafts, and clutches. In addition, include associated subsystems activities such as turborocket, turboramjet and rotorcraft transmissions; and supporting technical and engineering disciplines.

- Avionics. Includes but not limited to all technology, engineering and production efforts associated with the air platform's integrated avionics system. The avionics suite includes but is not limited to weapon delivery systems, electronic warfare, navigation, communications, radar, electro-optic sensors, signal/data processing and associated software system and support. Includes efforts associated with developing the integrated avionics system (i.e. optimizing functional partitioning, distribution and integration of avionics/related functions).

- Flight Subsystems. Includes but not limited to all technology, engineering and production efforts for air vehicle support systems such as landing gear; transparent crew enclosures; egress systems; mechanical equipment integrity; electrical component integrity; subsystem integration; and aircraft power, pressurization, and temperature control systems.

2. **Weapons.** Includes but not limited to all science and technology, demonstration and validation, engineering development, and production activities which support employment and in-service engineering of ICBMs/SLBMs, conventional missiles and rockets, cruise missiles, guided projectiles, bombs, guns and ammunition, directed energy and chemical/biological munitions. Include with each weapon as appropriate, all related technology, engineering and production activities such as fusing/safe and arm, missile propulsion, warheads and explosives, and guidance and control.

3. **Space.** Includes but not limited to all science and technology, demonstration and validation, engineering development, and production activities which support employment and in-service engineering of launch vehicles, satellites and associated ground control systems (satellite control only; ground systems for telemetry of data included in C4I). Include under satellites, all technology, engineering and production activities associated with space communications and space-based surveillance (and associated sensors) and space-based C4I.

4. **C4I.** Includes but not limited to all science and technology, demonstration and validation, engineering development, and production activities which support employment and in-service engineering of airborne, fixed ground-based and mobile ground based C4I systems. Include all technology, engineering and production activities associated with communications networks, radios and links, distributed information systems, data fusion, decision aids, and associated computer architectures.

Pervasive Functions (6.1, 6.2, and 6.3)

1. **Electronic Devices.** Includes but not limited to all science and technology activities supporting development of semiconductor and superconductor materials for optoelectronic, acoustic and microwave devices. Include all associated electronic materials/device fabrication and processing.

2. **Environmental Sciences.** Includes but not limited to all science and technology activities to improve measurement, characterization and modeling of the earth atmosphere and space environment. Examples include global prediction systems, space effects, and celestial backgrounds/astronomical reference sources.

3. Infectious Diseases. Includes but not limited to all science and technology activities which preserve manpower and performance by the prevention and treatment of militarily important infectious diseases that occur naturally worldwide.

4. Human Systems. Includes but not limited to all science and technology activities to enable, protect, sustain and enhance human effectiveness in DOD operations. The focus of this pervasive, multi-disciplinary area is the human and therefore impacts all DOD systems and operations. This area includes: (1) human performance definition, assessment, and aiding; (2) physiologic bioeffects of toxic hazards, ionizing and non-ionizing radiation, biodynamic (bio-mechanical) stress, and extreme environments; (3) military operational medicine; and (4) generic, human-centered design standards/methodologies for crew station subsystems, information management and display, and life support.

5. Manpower and Personnel. Includes but not limited to all science and technology activities which support four broad areas: (1) selection and classification of DOD personnel (including pilots); (2) identification of operational tasks performed and requirements for skills, knowledge, and aptitudes; (3) matching the right people with the jobs they are best suited for according to the needs of DOD, (4) and developing techniques for measuring and enhancing the productivity of the operational force.

6. Training Systems. Includes but not limited to all science and technology which support training of personnel, including training strategies, devices and simulators, and computer aided intelligent tutoring systems.

7. Environmental Quality. Includes but not limited to all science and technology activities which support the development of technologies to reduce the environmental costs of DOD operations while ensuring mission accomplishment is not jeopardized by adverse environmental impacts. Specifically, this area encompasses technologies to: (1) identify and cleanup sites contaminated with hazardous materials as a result of DOD operations (cleanup); (2) ensure DOD compliance with current and anticipated local, national, and international environmental laws and treaties (compliance); (3) minimize DOD use of hazardous materials and reduce DOD hazardous waste generation (pollution prevention); and (4) provide for protection of natural resources under DOD stewardship (conservation).

8. Advanced Materials. Includes but not limited to all science and technology activities related to structural, high temperature, electromagnetic protection, electronic, magnetic, optical, and biomolecular materials. Note: excludes materials areas which were included in DDR&E decision of 18 Mar 94 related to the Army's Materials Research Facility at Aberdeen Proving Ground and the Navy's Materials Facility at Carderock.

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

NEXT ECHELON LEVEL (if applicable)

T. N. JONES
NAME (Please type or print)

Signature

COMMANDING OFFICER
Title

27 July 94
Date

NAVAL MEDICAL RESEARCH AND DEVELOPMENT COMMAND
Activity

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

NEXT ECHELON LEVEL (if applicable)

NAME (Please type or print)

Signature

Title

Date

Activity

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

MAJOR CLAIMANT LEVEL

D.F.HAGEN, VADM, MC, USN
NAME (Please type or print)

Signature

CHIEF BUMED/SURGEON GENERAL
Title

7-28-94
Date

BUREAU OF MEDICINE & SURGERY
Activity

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

DEPUTY CHIEF OF NAVAL OPERATIONS (LOGISTICS)
DEPUTY CHIEF OF STAFF (INSTALLATIONS & LOGISTICS)

J. B. GREENE, JR.
NAME (Please type or print)

Signature

ACTING
Title

17 AUG 1994
Date

BRAC-95 CERTIFICATION

Reference: SECNAVNOTE 11000 of 08 December 1993

In accordance with policy set forth by the Secretary of the Navy, personnel of the Department of the Navy, uniformed and civilian, who provide information for use in the BRAC-95 process are required to provide a signed certification that states "I certify that the information contained herein is accurate and complete to the best of my knowledge and belief."

The signing of this certification constitutes a representation that the certifying official has reviewed the information and either (1) personally vouches for its accuracy and completeness or (2) has possession of, and is relying upon, a certification executed by a competent subordinate.

Each individual in your activity generating information for the BRAC-95 process must certify that information. Enclosure (1) is provided for individual certifications and may be duplicated as necessary. You are directed to maintain those certifications at your activity for audit purposes. For purposes of this certification sheet, the commander of the activity will begin the certification process and each reporting senior in the Chain of Command reviewing the information will also sign this certification sheet. This sheet must remain attached to this package and be forwarded up the Chain of Command. Copies must be retained by each level in the Chain of Command for audit purposes.

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

ACTIVITY COMMANDER

R. G. WALTER, DC, USN
NAME

Signature Robert G Walter

Commanding Officer
Title

Date 7/25/94

Naval Medical Research Institute
Activity

ENCL (2)

Document Separator

DATA CALL 64

CONSTRUCTION COST AVOIDANCES

R 184

Table 1: Military Construction (MILCON) Projects (Excluding Family Housing Construction Projects)

Installation Name:	**BETHESDA**
Unit Identification Code (UIC):	**N64223**
Major Claimant:	

Project FY	Project No.	Description	Appn	Project Cost Avoid ($000)
1996	XX1S	PURCHASE GILLETTE BUILDING	BRAC	12,000
		Sub-Total - 1996		**12,000**
		Grand Total		**12,000**

(Revised 9 Dec 94) *(* - Cost Avoidance is less than project programmed amount)* *(Page 20)*

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

MAJOR CLAIMANT LEVEL

J. E. BUFFINGTON, RADM, CEC, USN
NAME (Please type or print)

Signature

COMMANDER
Title

12/9/94
Date

NAVAL FACILITIES ENGINEERING COMMAND
Activity

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

DEPUTY CHIEF OF NAVAL OPERATIONS (LOGISTICS)
DEPUTY CHIEF OF STAFF (INSTALLATIONS & LOGISTICS)

W. A. EARNER
NAME (Please type or print)

Signature

Title

12/9/94
Date

BRAC-95 CERTIFICATION

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

MICHAEL D. THORNTON
NAME (Please type or print)

MD Thornton
Signature

CDR, CEC, USN
Title

9 Dec 94
Date

MILCON PROGRAMMING DIVISION
Division

NAVAL FACILITIES ENGINEERING COMMAND
Activity

Document Separator

184

MILITARY VALUE DATA CALL

TECHNICAL CENTERS

Category	
Technical Center Site	NAVAL MEDICAL RESEARCH INSTITUTE
Location/Address	BETHESDA, MARYLAND

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Mission	
1. Mission Statement	1
2. Joint Service Missions	1
Technical Functions	
3. Technical Functions Resource Allocations	1
Manpower	
4. Work Breakdown Structure	2
5. Technical Staff Qualifications	6
Facilities and Equipment	
6. Special Facilities/Equipment Resources	190
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Quality of Life

12. Military Housing 193
13. MWR Facilities 203
14. Base Family Support Facilities 205
15. Metropolitan Areas 207
16. VHA 208
17. Off-base Housing Rental and Purchase 209
18. Sea Intensive Ratings 211
19. Commute 211
20. Educational Opportunities 212
21. Employment Opportunities 215
22. Medical/Dental 215
23. Crime Rate 215

TAB A Technical Operations: Functional Support Area - Life Cycle Work Area Form

TAB B Facilities and Equipment: Facilities/Equipment Capability Form

184

MILITARY VALUE DATA CALL

TECHNICAL CENTERS

Category	
Technical Center Site	NAVAL MEDICAL RESEARCH INSITUTE
Location/Address	BETHESDA, MARYLAND

Page

Mission

1. Mission Statement 1
2. Joint Service Missions 1

Technical Functions

3. Technical Functions Resource Allocations 2

Manpower

4. Work Breakdown Structure 3
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Facilities and Equipment

6. Special Facilities/Equipment Resources 12
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Quality of Life

12. Military Housing 17
13. MWR Facilities 26
14. Base Family Support Facilities 28
15. Metropolitan Areas 29
16. VHA 30
17. Off-base Housing Rental and Purchase 31
18. Sea Intensive Ratings 33
19. Commute 33
20. Educational Opportunities 33

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UIC: _____

21. Employment Opportunities 37
22. Medical/Dental 37
23. Crime Rate 38

TAB A Technical Operations: Functional Support Area - Life Cycle Work Area Form

TAB B Facilities and Equipment: Facilities/Equipment Capability Form

TAB C Range Resources: Range Capability Form

Appendix A Functional Support Areas - Life Cycle Work Areas List

Appendix B Definitions for Functional Support Areas - Life Cycle Work Areas

TAB D
Page ___ of ___
UIC: _____

MILITARY VALUE MEASURES

MISSION

1. **Mission Statement.** The mission of the Naval Medical Research Institute , Bethesda, Maryland as assigned by the Secretary of the Navy and the Chief, Bureau of Medicine and Surgery is: To conduct research, development, test, and evaluations to enhance the health, safety, and readiness of Navy and Marine Corps personnel in the effective perforamnce of peacetime and contingency missions, and to perform such other functions or taskks as may be directed by higher authority.

2. **Joint Service Missions.** N/A/

TECHNICAL FUNCTIONS

3. **Technical Functions Resource Allocations.** Appendix A provides a list of numbered functional support areas that cover the spectrum of naval warfare and support operations. Additionally, Appendix A provides a list of numbered life-cycle work areas that cover the "cradle to grave" spectrum of Navy systems acquisition. Utilizing the two lists at Appendix A, each activity will break out its entire FY1993 technical program within any applicable intersections of these two defining schemes (for example, functional support area #5.2 - life cycle work area #3 will identify the activity's level of resources allocated to sensors and surveillance systems, radar systems in advanced development). Definitions for each functional support and life cycle work area are provided in Appendix B for reference.

a. Use the form at Tab A of this data call to provide data on work years and expenditures for FY1993 to support each applicable intersection of functional support areas and life cycle work areas. When necessary, estimate data to the best of your ability

Completed Forms provided in Tab A

b. Similarly, use the Tab A forms to report separately on your detachments or sites that have not received this data call directly. This data may be consolidated when the detachments or sites perform work in the same area. When necessary, estimate data to the best of your ability.

Completed Forms provided in Tab A

page____of____
UIC_____

MILITARY VALUE MEASURES

MISSION

1. **Mission Statement.** The mission of the Naval Medical Research Institute , B ethesda, Maryland as assigned by the Secretary of the Navy and the Chief, Bureau of Medicine and Surgery is: To conduct research, development, test, and evaluations to enhance the health, safety, and readiness of Navy and Marine Corps personnel in the effective perforamnce of peacetime and contingency missions, and to perform such other functions or taskks as may be directed by higher authority.

2. **Joint Service Missions.** N/A/

TECHNICAL FUNCTIONS

3. **Technical Functions Resource Allocations.** Appendix A provides a list of numbered functional support areas that cover the spectrum of naval warfare and support operations. Additionally, Appendix A provides a list of numbered life-cycle work areas that cover the "cradle to grave" spectrum of Navy systems acquisition. Utilizing the two lists at Appendix A, each activity will break out its entire FY1993 technical program within any applicable intersections of these two defining schemes (for example, functional support area #5.2 - life cycle work area #3 will identify the activity's level of resources allocated to sensors and surveillance systems, radar systems in advanced development). Definitions for each functional support and life cycle work area are provided in Appendix B for reference.

a. Use the form at Tab A of this data call to provide data on work years and expenditures for FY1993 to support each applicable intersection of functional support areas and life cycle work areas. When necessary, estimate data to the best of your ability

b. Similarly, use the Tab A forms to report separately on your detachments or sites that have not received this data call directly. This data may be consolidated when the detachments or sites perform work in the same area. When necessary, estimate data to the best of your ability.

MANPOWER

4. **Work Breakdown Structure.**

a. Use Table 4.1 (below) to provide data on the general support functions at your activity. Report data as of 31 March 1994. If you are collocated with one of your subordinate base keeper commands (i.e., a NAWS or NAS collocated with a NAWC Division), describe the differences in the functions of each and provide a separate Table 4.1 for the subordinate command. Include this command in the Table 4.1 submission for your Activity.

b. Similarly, use Table 4.2 (below) to provide general support function data for all your detachments or sites that did not receive this data call directly. Consolidate data from all of these detachments into one table (4.2). Provide a list of the detachments whose data is included in Table 4.2. For each identified detachment in this list, include its name, location, UIC, and number of civilian and military personnel onboard.

In addition, if any of your detachments or separate sites not receiving an individual data call have over 50 civilian personnel or own technical facilities, provide separately a description of the site, the functions performed there, photographs showing the facilities and state the reason for that site's existence and the necessity for it to be at that location.

c. Use Table 4.3 (below) to provide estimated data, for your activity only, to reflect the anticipated impact of previous BRAC decisions that have not yet been implemented. This data should provide the deltas from Table 4.1.

NOTES:

[1] Use the following definitions when providing data for the tables below:

Workyears: Consistent with those used in the preparation of inputs to the President's budget.

Contract Workyears: Actual or estimated workyears performed by support contractors with workyears defined consistent with the definition used in the President's budget.

Civilian Personnel Onboard: Full Time Permanent (FTP) employees.

[2] Any categories of personnel that are employed to support other Activities should be noted with the name of the additional Activity supported.

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MANPOWER

4. **Work Breakdown Structure.**

a. Use Table 4.1 (below) to provide data on the general support functions at your activity. Report data as of 31 March 1994. If you are collocated with one of your subordinate base keeper commands (i.e., a NAWS or NAS collocated with a NAWC Division), describe the differences in the functions of each and provide a separate Table 4.1 for the subordinate command. Include this command in the Table 4.1 submission for your Activity.

b. Similarly, use Table 4.2 (below) to provide general support function data for all your detachments or sites that did not receive this data call directly. Consolidate data from all of these detachments into one table (4.2). Provide a list of the detachments whose data is included in Table 4.2. For each identified detachment in this list, include its name, location, UIC, and number of civilian and military personnel onboard.

In addition, if any of your detachments or separate sites not receiving an individual data call have over 50 civilian personnel or own technical facilities, provide separately a description of the site, the functions performed there, photographs showing the facilities and state the reason for that site's existence and the necessity for it to be at that location.

c. Use Table 4.3 (below) to provide estimated data, for your activity only, to reflect the anticipated impact of previous BRAC decisions that have not yet been implemented. This data should provide the deltas from Table 4.1.

NOTES:

[1] Use the following definitions when providing data for the tables below:

Workyears: Consistent with those used in the preparation of inputs to the President's budget.

Contract Workyears: Actual or estimated workyears performed by support contractors with workyears defined consistent with the definition used in the President's budget.

Civilian Personnel Onboard: Full Time Permanent (FTP) employees.

[2] Any categories of personnel that are employed to support other Activities should be noted with the name of the additional Activity supported.

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Table 4.1, General Support Resources for
(Activity:NAVAL MEDICAL RESEARCH INSTITUTE) (UIC:64223)

Function	Space allocated (Gross SQFT)	Work Years	Civilian Persnel onboard	Contract Work Years	Military Personnel Onboard	
					Off	Enl
ADMINISTRATION						
Command (CO/XO/TD/etc.)	7000	3	3	0	4	0
Comptroller		7	7	0	1	1
Admin		2	2	0	2	2
Human Resources		2	2	0	0	5
OPERATIONS SUPPORT						
Supply Management	7,000	8	8	0	1	14
Consolidated Computational Computer Support						
Information Systems and Communications	4,500	2	2	0	0	5
Safety/OSH/Environmental		1	1	0	1	7
INFRASTRUCTURE						
Physical Security	1,000	0	0	0	0	7
Public Works/Staff Civil Engr		2	2	0	1	2
Fire Protection						
Medical/Dental						
Military Support						
Air/Waterfront Operations						
Other						

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Table 4.1, General Support Resources for
(Activity:NAVAL MEDICAL RESEARCH INSTITUTE) (UIC:64223)

Function	Space allocated (Gross SQFT)	Work Years	Civilian Persnel onboard	Contract Work Years	Military Personnel Onboard	
					Off	Enl
ADMINISTRATION						
Command (CO/XO/TD/etc.)	~~7000~~ 1,502	8	2	N/A	4	2
Comptroller	914.90	8	6	N/A	1	1
Admin	4889.3	9	3	N/A	1	5
Human Resources	N/A			N/A		
OPERATIONS SUPPORT						
Supply Management	7,000	22	7	N/A	1	15
Consolidated Computational Computer Support	N/A			N/A		
Information Systems and Communications	4,500	9	4	N/A	0	5
Safety/OSH/Environmental	273.4	8	1	N/A	1	6
INFRASTRUCTURE						
Physical Security	1,000	6		N/A	1	5
Public Works/Staff Civil Engr	413.8	3	2	0	0	1
Fire Protection	N/A			N/A		
Medical/Dental	N/A			N/A		
Military Support	N/A			N/A		
Air/Waterfront Operations	N/A					
Other	N/A					
	128,782	TECHNICAL STAFF				
Technical Operations	~~115,800~~	89	114	162	56	128
Totals	149275	162	139	162	65	168

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TECHNICAL STAFF						
Technical Operations	115,800	135	112	162	55	125
Totals	137,300	162	139	162	65	168

Table 4.2, General Support Resources for all Detachment
Activity: NMRI
(UIC: 41817 & 44852)

Function	Space allocated (Gross SQFT)	Work Years	Civilian Personel onboard	Contract Work Years	Military Personnel Onboard	
					Off	Enl
ADMINISTRATION						
Command (CO/ XO/ TD/etc.)		2	2	0	2	1
Comptroller						
Admin	5920	1	1	0	0	1
Human Resources						
OPERATIONS SUPPORT						
Supply Management						
Consolidated Computational Computer Support						
Information Systems and Communications						
Safety/OSH/Environmental						

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Table 4.2, General Support Resources for all Detachments
(Activity: NMRI) (UIC: 41817 & 44852)

Function	Space allocated (Gross SQFT)	Work Years	Civilian Persnel onboard	Contract Work Years	Military Personnel Onboard	
					Off	Enl
ADMINISTRATION						
Command (CO/ XO/ TD/etc.)						
Comptroller						
Admin	5920	7	3	0	2	2
Human Resources						
OPERATIONS SUPPORT						
Supply Management						
Consolidated Computational Computer Support						
Information Systems and Communications						
Safety/OSH/Environmental						
INFRASTRUCTURE						
Physical Security						
Public Works/Staff Civil Engr						
Fire Protection						
Medical/Dental						
Military Support						
Air/Waterfront Operations						
Other	7735	OWNED BY		PERUVIAN	NAVY	
TECHNICAL STAFF						
Technical Operations	23200		3	15	8	7
Totals	36 855	25	6	15	10	9

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Table 4.3, Previous BRAC Impact to General Support Resources for
(Activity:NMRI) (UIC: 64223) N/A

Function	Space allocated (Gross SQFT)	Work Years	Civilian Persnel onboard	Contract Work Years	Military Personnel Onboard	
					Off	Enl
ADMINISTRATION						
Command (CO/XO/ TD/etc.)	N/A					
Comptroller						
Admin						
Human Resources						

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INFRASTRUCTURE						
Physical Security						
Public Works/Staff Civil Engr						
Fire Protection						
Medical/Dental						
Military Support						
Air/Waterfront Operations						
Other	7,735					
TECHNICAL STAFF						
Technical Operations	23,200	3	3	0	8	7
Totals	36,855	6	6	0	10	9

Table 4.3, Previous BRAC Impact to General Support Resources for (Activity:NMRI) (UIC: 64223) N/A

Function	Space allocated (Gross SQFT)	Work Years	Civilian Persnel onboard	Contract Work Years	Military Personnel Onboard	
					Off	Enl
ADMINISTRATION						
Command (CO/XO/ TD/etc.)						
Comptroller						
Admin						
Human Resources						
OPERATIONS SUPPORT						
Supply Management						
Consolidated Computational Computer Support						
Information Systems and Communications						

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Safety/OSH/Environmental						
INFRASTRUCTURE						
Physical Security						
Public Works/Staff Civil Engr						
Fire Protection						
Medical/Dental						
Military Support						
Air/Waterfront Operations						
Other						
TECHNICAL STAFF						
Technical Operations						
Totals			N/A			

5. **Technical Staff Qualifications.**

a. Use Table 5.1 (below) to provide data on the civilian personnel allocated to Technical Operations having the educational and experience levels indicated in the table for your activity. Report data as of 31 March 1994. Similarly, use Table 5.2 (below) to provide data for all your separate detachments or sites that did not receive this data call directly. Consolidate data from all of these detachments into one table (5.2). Provide a list of the detachments whose data is included in Table 5.2.

Table 5.1, Technical Staff Education Level for
(Activity:NMRI) (UIC:64223)

Highest Degree Attained	Years of Government and/or Military Service					
	Less than 3 Years	3-10 Years	11-15 Years	16-20 Years	More than 20 Years	Total
Grade School	0	0	0	0	0	0
High School	5	7	11	9	7	39

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OPERATIONS SUPPORT						
Supply Management						
Consolidated Computational Computer Support						
Information Systems and Communications						
Safety/OSH/Environmental						
INFRASTRUCTURE						
Physical Security						
Public Works/Staff Civil Engr						
Fire Protection						
Medical/Dental						
Military Support						
Air/Waterfront Operations						
Other						
TECHNICAL STAFF						
Technical Operations						
Totals						

5. **Technical Staff Qualifications.**

a. Use Table 5.1 (below) to provide data on the civilian personnel allocated to Technical Operations having the educational and experience levels indicated in the table for your activity. Report data as of 31 March 1994. Similarly, use Table 5.2 (below) to provide data for all your separate detachments or sites that did not receive this data call directly. Consolidate data from all of these detachments into one table (5.2). Provide a list of the detachments whose data is included in Table 5.2.

Table 5.1, Technical Staff Education Level for
(Activity:NMRI) (UIC:64223)

Highest Degree Attained	Years of Government and/or Military Service					
	Less than 3 Years	3-10 Years	11-15 Years	16-20 Years	More than 20 Years	Total
Grade School	0	0	0	0	0	
High School	0	0	0	0	0	
B.A./B.S	6	05	4	3	02	
M.A./M.S	2	08	6	3	02	
Ph.D./ M.D.	0	17	29	23	10	
Total	08	30	39	39	14	

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B.A./B.S	6	5	8	7	2	28
M.A./M.S	2	4	3	2	2	13
Ph.D./ M.D.	0	3	12	10	7	32
Total	8	12	19	15	11	112

Table 5.2, Technical Staff Education Level for all Detachments (Parent Activity:NMRI) (UIC:64223)

Highest Degree Attained	Years of Government and/or Military Service					
	Less than 3 Years	3-10 Years	11-15 Years	16-20 Years	More than 20 Years	Total
Grade School						
High School						
B.A./B.S		1				1
M.A./M.S						
Ph.D./ M.D.		1			1	2
Total	0	2	0	0	1	3

b. Use Table 5.3 (below) to provide data on the number of civilian personnel allocated to Technical Operations with graduate degrees and at least three years of applicable experience that have their highest degree in the fields indicated. Report data as of 31 March 1994. Similarly, use Table 5.4 (below) to provide data for all your separate detachments or sites that did not receive this data call directly. Consolidate data from all of these detachments into one table (5.4). Provide a list of the detachments whose data is included in Table 5.4

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Table 5.2, Technical Staff Education Level for all Detachments
(Parent Activity:NMRI) (UIC:64223)

Highest Degree Attained	Years of Government and/or Military Service					
	Less than 3 Years	3-10 Years	11-15 Years	16-20 Years	More than 20 Years	Total
Grade School						
High School						
B.A./B.S		1				1
M.A./M.S						
Ph.D./ M.D.		1			1	2
Total	0	2	0	0	1	3

b. Use Table 5.3 (below) to provide data on the number of civilian personnel allocated to Technical Operations with graduate degrees and at least three years of applicable experience that have their highest degree in the fields indicated. Report data as of 31 March 1994. Similarly, use Table 5.4 (below) to provide data for all your separate detachments or sites that did not receive this data call directly. Consolidate data from all of these detachments into one table (5.4). Provide a list of the detachments whose data is included in Table 5.4

Table 5.3, Technical Staff Academic Fields for
(Activity: NMRI) (UIC:64223)

Academic field	Number
Physics	08
Chemistry	21
Biology	45
Mathematics/Statistics/ Operations Research	05
Engineering	05
Medical	04
Dental	00
Computer Science	02
Social Science	00
Other Science	21
Non-Science	00
Total	111

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Table 5.3, Technical Staff Academic Fields for (Activity: NMRI) (UIC:64223)

Academic field	Number
Physics	0
Chemistry	7
Biology	29
Mathematics/Statistics/ Operations Research	0
Engineering	2
Medical	2
Dental	0
Computer Science	0
Social Science	1
Other Science	1
Non-Science	0
Total	43

Table 5.4, Technical Staff Academic Fields for all Detachments (Parent Activity:NMRI) (UIC:64223)

Academic field	Number
Physics	
Chemistry	
Biology	2
Mathematics/Statistics/ Operations Research	
Engineering	
Medical	

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Dental	
Computer Science	
Social Science	
Other Science	
Non-Science	
Total	2

c. Are there unique aspects of the activity's location that help or hinder in the hiring of qualified personnel? The Naval Medical Research Institute is adjacent to the National Institutes of Health and there are numerous universities and other biotechnology concerns in the Washington, DC area.

d. List all articles written by the in-house technical staff that were published or accepted for publication in refereed journals since 1 January 1990.

NMRI 90-0001
IMBODEN JB JUNE CH MCCUTCHEON MA
LEDBETTER JA
STIMULATION OF CD5 ENHANCES SIGNAL TRANSDUCTION BY THE
T_CELL ANTIGEN RECEPTOR.
JOURNAL OF CLINICAL INVESTIGATION 1990 JAN;85(1):130-4
IMMUNOBIOLOGY AND TRANSPLANTATION
M0095.003.1007 (DN677130) REPORT NO.74
MR04120.001.1011 (DN248525) REPORT NO. 8
ANTIGENS, CD
ANTIGENS, DIFFERENTIATION
RECEPTORS, ANTIGEN, T-CELL
SIGNAL TRANSDUCTION
T-LYMPHOCYTES
AD A219 119

NMRI 90-0002
DOUBT TJ FRANCIS TJR
HAZARDS OF COLD WATER.
IN: CURRENT THERAPY IN SPORTS MEDICINE - 2. EDITED BY
JOSEPH S. TORG ET AL. PHILADELPHIA, DECKER, 1990. PP.150-5
DIVING MEDICINE
M0099.01A.1003 (DN377011) REPORT NO. 8

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Table 5.4, Technical Staff Academic Fields for all Detachments (Parent Activity:NMRI) (UIC:64223)

Academic field	Number
Physics	
Chemistry	
Biology	03
Mathematics/Statistics/ Operations Research	
Engineering	
Medical	
Dental	
Computer Science	
Social Science	
Other Science	
Non-Science	
Total	03

c. Are there unique aspects of the activity's location that help or hinder in the hiring of qualified personnel? The Naval Medical Research Institute is adjacent to the National Institutes of Health and there are numerous universities and other biotechnology concerns in the Washington, DC area.

d. List all articles written by the in-house technical staff that were published or accepted for publication in refereed journals since 1 January 1990. NMRI 90-0001
IMBODEN JB JUNE CH MCCUTCHEON MA
LEDBETTER JA
STIMULATION OF CD5 ENHANCES SIGNAL TRANSDUCTION BY THE
T_CELL ANTIGEN RECEPTOR.
JOURNAL OF CLINICAL INVESTIGATION 1990 JAN;85(1):130-4
IMMUNOBIOLOGY AND TRANSPLANTATION
M0095.003.1007 (DN677130) REPORT NO.74
MR04120.001.1011 (DN248525) REPORT NO. 8
ANTIGENS, CD
ANTIGENS, DIFFERENTIATION
RECEPTORS, ANTIGEN, T-CELL
SIGNAL TRANSDUCTION
T-LYMPHOCYTES
AD A219 119

Revised

NMRI 90-0002
DOUBT TJ FRANCIS TJR
HAZARDS OF COLD WATER.
IN: CURRENT THERAPY IN SPORTS MEDICINE - 2. EDITED BY
JOSEPH S. TORG ET AL. PHILADELPHIA, DECKER, 1990. PP.150-5
DIVING MEDICINE
M0099.01A.1003 (DN377911) REPORT NO. 8
EXERCISE
IMMERSION
AD A219 120

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NMRI 90-0003
FRENKEL N SCHIRMER EC WYATT LS
KATSAFANAS G ROFFMAN E DANOVICH RM

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UIC_____

JUNE CH
ISOLATION OF A NEW HERPESVIRUS FROM HUMAN CD4+ T_CELLS.
PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCE 1990 JAN;
87(2):748-52
IMMUNOBIOLOGY AND TRANSPLANTATION
M0095.003.1007 (DN677130) REPORT NO.75
ANTIGENS, CD4
HERPESVIRUS
T-LYMPHOCYTES
AD A219 088

NMRI 90-0004
MOND JJ BALAPURE A FEUERSTEIN N
JUNE CH BRUNSWICK M LINDSBERG ML
WITHERSPOON K
PROTEIN KINASE_C ACTIVATION IN B_CELLS BY INDOLACTAM
INHIBITS ANTI-IG-MEDIATED PHOSPHATIDYLINOSITOL
BISPHOSPHATE HYDROLYSIS BUT NOT B_CELL PROLIFERATION.
JOURNAL OF IMMUNOLOGY 1990 JAN 15;144(2):451-5
IMMUNOBIOLOGY AND TRANSPLANTATION
M0095.003.1007 (DN677130) REPORT NO.76
B-LYMPHOCYTES
INDOLES
LACTAMS
LYMPHOCYTE TRANSFORMATION
MICE
PROTEIN KINASE-C
AD A219 025

NMRI 90-0005
SCHAER GL FINK MP CHERNOW B
AHMED S PARRILLO JE REUSCH D
CANEAL D
RENAL HEMODYNAMICS AND PROSTAGLANDIN E2 EXCRETION IN A
NONHUMAN PRIMATE MODEL OF SEPTIC SHOCK.
CRITICAL CARE MEDICINE 1990 JAN;18(1):52-9
CASUALTY CARE
M0095.001.1032 (DN977556) REPORT NO.50
ANIMAL
DINOPROSTONE
HEMODYNAMICS
KIDNEY FAILURE, ACUTE
SHOCK, SEPTIC
AD A219 121

NMRI 90-0006
D'ALESANDRO MM REED HL ROBERTSON R
LEWIS SB
SIMPLIFIED METHODS OF COLLECTING AND PROCESSING WHOLE
BLOOD FOR QUANTITATION OF PLASMA CATECHOLAMINES.
LABORATORY MEDICINE 1990 JAN;21(1):26-9
ENVIRONMENTAL MEDICINE
MM33C30.04.1002 (DN247509) REPORT NO.3
CATECHOLAMINES
CHROMATOGRAPHY, HIGH PRESSURE LIQUID
PLASMA
AD A219 365

NMRI 90-0007
PARENT JB
MEMBRANE RECEPTORS ON RAT HEPATOCYTES FOR THE INNER CORE
REGION OF BACTERIAL LIPOPOLYSACCHARIDES.
JOURNAL OF BIOLOGICAL CHEMISTRY 1990 FEB 25;265(6):3455-61
CASUALTY CARE
MR04120.05.1004 (DN247511) REPORT NO.23

~~Revised through pg. 124~~
OK through pg. 85

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LIPOPOLYSACCHARIDES
LIVER
RECEPTORS, IMMUNOLOGIC
RATS
AD A219 363

NMRI 90-0008
D'ALESANDRO MM GRUBER DF REED HL
O'HALLORAN KP ROBERTSON R
EFFECTS OF COLLECTION METHODS AND STORAGE ON THE IN VITRO
STABILITY OF CANINE PLASMA CATECHOLAMINES.
AMERICAN JOURNAL OF VETERINARY RESEARCH 1990 FEB;51(2):
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ENVIRONMENTAL MEDICINE
MM33C30.04.1002 (DN247509) REPORT NO.4
BLOOD PRESERVATION
BLOOD SPECIMEN COLLECTION
DOGS
EPINEPHRINE
NOREPINEPHRINE
SPECIMEN HANDLING
AD A219 362

OK

NMRI 90-0009
MONROY RL DAVIS TA MACVITTIE TJ
GRANULOCYTE-MACROPHAGE COLONY-STIMULATING FACTOR: MORE THAN
A HEMOPOIETIN.
CLINICAL IMMUNOLOGY AND IMMUNOPATHOLOGY 1990;54:333-46
IMMUNOBIOLOGY AND TRANSPLANTATION
MM33C30.005.1051 (DN249507) REPORT NO.4
COLONY STIMULATING FACTORS
GROWTH SUBSTANCES
AD A220 076

NMRI 90-0010
TSOKOS GC LAMBRIS JD FINKELMAN FD
ANASTASSIOU ED JUNE CH
MONOVALENT LIGANDS OF COMPLEMENT RECEPTOR 2 INHIBIT WHEREAS
POLYVALENT LIGANDS ENHANCE ANTI-IG-INDUCED HUMAN B_CELL
INTRACYTOPLASMIC FREE CALCIUM CONCENTRATION.
JOURNAL OF IMMUNOLOGY 1990 MAR 1;144(5):1640-5
IMMUNOBIOLOGY AND TRANSPLANTATION
M0095.003.1007 (DN677130) REPORT NO.78
B-LYMPHOCYTES
CALCIUM
LYMPHOCYTE TRANSFORMATION
RECEPTORS, ANTIGEN, B-CELL
RECEPTORS, COMPLEMENT
AD A220 029

NMRI 90-0011
TURKA LA LEDBETTER JA LEE K
JUNE CH THOMPSON CB
CD28 IS AN INDUCIBLE T_CELL SURFACE ANTIGEN THAT TRANSDUCES
A PROLIFERATIVE SIGNAL IN CD3+ MATURE THYMOCYTES.
JOURNAL OF IMMUNOLOGY 1990 MAR 1;144(5):1646-53
IMMUNOBIOLOGY AND TRANSPLANTATION
MR04120.001.1011 (DN248525) REPORT NO. 9
ANTIGENS, DIFFERENTIATION, T-LYMPHOCYTE
LYMPHOCYTE TRANSFORMATION
T-LYMPHOCYTES
AD A220 028

NMRI 90-0012
JUNE CH FLETCHER MC LEDBETTER JA

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SAMELSON LE
INCREASES IN TYROSINE PHOSPHORYLATION ARE DETECTABLE BEFORE PHOSPHOLIPASE_C ACTIVATION AFTER T_CELL RECEPTOR STIMULATION.
JOURNAL OF IMMUNOLOGY 1990 MAR 1;144(5):1591-9
IMMUNOBIOLOGY AND TRANSPLANTATION
MR00001.001.1385 (DN240528) REPORT NO. 1
MICE
PHOSPHOLIPASE-C
PHOSPHOPROTEINS
PROTEIN TYROSINE KINASE
RECEPTORS, ANTIGEN, T-CELL
TYROSINE
AD A220 027

NMRI 90-0013
DAVIS TA MONROY RL SKELLY RR
DONAHUE RE MACVITTIE TJ
DIFFERENTIAL AUGMENTATION OF IN VIVO NATURAL KILLER CYTOTOXICITY IN NORMAL PRIMATES WITH RECOMBINANT HUMAN INTERLEUKIN-1 AND GRANULOCYTE-MACROPHAGE COLONY-STIMULATING FACTOR.
CLINICAL AND EXPERIMENTAL IMMUNOLOGY 1990 MAR;79(3):436-42
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M0095.003.1007 (DN677130) REPORT NO.79
COLONY STIMULATING FACTORS
CYTOTOXICITY, IMMUNOLOGIC
GROWTH SUBSTANCES
INTERLEUKIN-1
KILLER CELLS, NATURAL
MACACA MULATTA
AD A220 012

NMRI 90-0014
THORP JW MITTLEMAN KD HABERMAN KJ
HOUSE JF DOUBT TJ
WORK ENHANCEMENT AND THERMAL CHANGES DURING INTERMITTENT WORK IN COOL WATER AFTER CARBOHYDRATE LOADING.
NMRI REPORT. MARCH 1990.
DIVING MEDICINE
M0099.01A.1003 (DN377011) REPORT NO. 9
BODY TEMPERATURE REGULATION
DIET
EXERCISE
IMMERSION
AD A222 877

NMRI 90-0015
YERKES KL
A STUDY OF MIXED CONVECTION IN LARGE BAFFLED RECTANGULAR CHAMBERS WITH AND WITHOUT INTERNAL HEAT SOURCES.
NMRI REPORT. MARCH 1990.
TOXICOLOGY DETACHMENT
M0096.004.0006 (DN377025) REPORT NO.37
INHALATION
TOXICOLOGY
AD A223 158

NMRI 90-0016
KINKEAD ER BUNGER SK WOLFE RE
WALL HG
THE ACUTE, DELAYED NEUROTOXICITY EVALUATION OF TWO JET ENGINE OIL FORMULATIONS.
NMRI REPORT. APRIL 1990. 21 PP.
TOXICOLOGY DETACHMENT

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M0096.004.0006 (DN377025) REPORT NO.38
NEUROTOXICITY ENGINE OILS
AD A222 018

NMRI 90-0017
WEBB L CARL M MALLOY DC
DASCH GA AZAD AF
DETECTION OF MURINE TYPHUS INFECTION IN FLEAS BY USING THE
POLYMERASE CHAIN REACTION.
JOURNAL OF CLINICAL MICROBIOLOGY 1990 MAR;28(3):530-4
INFECTIOUS DISEASES 3M162770A870.AQ120 (DA313964) REPORT NO. 6
ANTIGENS, BACTERIAL
DNA, BACTERIAL
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MONOCLONAL LIGAND BINDING SITE RELATED ANTI-IDIOTYPIC
ANTIBODIES ELICITED WITH A POLYCLONAL KININ ANTIBODY.
HYBRIDOMA 1993;12(1):45-53
SEPTIC SHOCK TREATMENT
MM33C30.01.1001 (DN246558) REPORT NO.14
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ANTIBODIES, MONOCLONAL
BINDING SITES, ANTIBODY
KININS
MICE
AD A273 747

NMRI 93-0083
YUI K ISHIDA Y KATSUMATA M
KOMORI S CHUSED TM ABE R
TWO SEPARATE MECHANISMS OF T_CELL CLONAL ANERGY TO MLS-1A.
JOURNAL OF IMMUNOLOGY 1993 DEC 1;151(11):6062-75
IMMUNE CELL BIOLOGY
MR00001.1406 (DN244501) REPORT NO.2
HEADINGS
AD A273 748

NMRI 93-0084
HARFORD RR REED HL MORRIS MT
SAPIEN IE WARDEN R D'ALESANDRO MM
RELATIONSHIP BETWEEN CHANGES IN SERUM THYROTROPIN AND TOTAL
AND LIPOPROTEIN CHOLESTEROL WITH PROLONGED ANTARCTIC
RESIDENCE.
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THERMAL STRESS ADAPTATION
M0095.004.1008 (DN246556) REPORT NO.17
CHOLESTEROL
LIPOPROTEINS
SEASONS
THYROTROPIN
AD A274 262

NMRI 93-0085 SIEGEL JN JUNE CH YAMADA H RAPP UR SAMELSON LE
RAPID ACTIVATION OF C-RAF-1 AFTER STIMULATION OF THE

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T-CELL RECEPTOR OR THE MUSCARINIC RECEPTOR TYPE_1 IN
RESTING T_CELLS.
JOURNAL OF IMMUNOLOGY 1993 OCT 15;151(8):4116-27
IMMUNE CELL BIOLOGY
M0095.002.1311 (DN243523) REPORT NO.1
MICE
PROTEIN-SERINE-THREONINE KINASES
PROTO-ONCOGENE PROTEINS
RECEPTORS, ANTIGEN, T-CELL
RECEPTORS, MUSCARINIC
T-LYMPHOCYTES
AD A274 524

NMRI 93-0086
MALONE JD HYAMS KC HAWKINS RE
SHARP TW DANIELL FD
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DEPLOYED U.S. MILITARY PERSONNEL.
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3M463105H29.AA1283 (DN243545) REPORT NO.1
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AD A274 467

NMRI 93-0087
HYAMS KC BOURGEOIS AL ESCAMILLA J
BURANS J WOODY JN
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3M162787A870.AR1288 (DN243536) REPORT NO.12
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NMRI 93-0088
OHL CA HYAMS KC MALONE JD
OLDFIELD E III
LEISHMANIASIS AMONG DESERT STORM VETERANS: A DIAGNOSTIC
AND THERAPEUTIC DILEMMA.
MILITARY MEDICINE 1993 NOV;158(11):726-8
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3M162787A870.AR1288 (DN243536) REPORT NO.13
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AD A274 582

NMRI 93-0089
RICHARDS AL HYAMS KC WATTS DM
ROZMAJZL PJ WOODY JN MERRELL BR
RESPIRATORY DISEASE AMONG MILITARY PERSONNEL IN SAUDI_
ARABIA DURING OPERATION DESERT SHIELD.
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RESPIRATORY TRACT DISEASES
AD A274 465

NMRI 93-0090
BAQAR S PACHECO ND ROLLWAGEN FM
MODULATION OF MUCOSAL IMMUNITY AGAINST CAMPYLOBACTER_JEJUNI

BY ORALLY ADMINISTERED CYTOKINES.
ANTIMICROBIAL AGENTS AND CHEMOTHERAPY 1993 DEC;37(12):
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ENTERIC DISEASES
3M162787A870.AN1289 (DN243592) REPORT NO.3
MR00001.001.1384 (DN240526) REPORT NO.1
HEADINGS
AD A274 584

NMRI 93-0091
FLETCHER MC SAMELSON LE JUNE CH
COMPLEX EFFECTS OF PHENYLARSINE OXIDE IN T_CELLS: INDUCTION
OF TYROSINE PHOSPHORYLATION AND CALCIUM MOBILIZATION
INDEPENDENT OF CD45 EXPRESSION.
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MR04120.001.1011 (DN248525) REPORT NO.31
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AD A274 523

NMRI 93-0092
MALIK A GROSS M ULRICH T
HOFFMAN SL
INDUCTION OF CYTOTOXIC T_LYMPHOCYTES AGAINST THE
PLASMODIUM FALCIPARUM CIRCUMSPOROZOITE PROTEIN BY
IMMUNIZATION WITH SOLUBLE RECOMBINANT PROTEIN WITHOUT
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3M463807D808.AQ1275 (DN243520) REPORT NO.7
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HYAMS KC PHILLIPS IA TEJADA A
WIGNALL FS ROBERTS CR ESCAMILLA J
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HEPATITIS TRANSMISSION IN A PERUVIAN PROSTITUTE
POPULATION.
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3M162787A870.AR1288 (DN243536) REPORT NO.15
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NMRI 93-0094
SAVARINO SJ
DIARRHOEAL DISEASE: CURRENT CONCEPTS AND FUTURE CHALLENGES:
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OF E._COLI IMPLICATED AS DIARRHOEAL PATHOGENS.
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ENTERIC DISEASES
3M161102BS13.AK1395 (DN241501) REPORT NO.3
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AD A276 188

NMRI 93-0095
SAVARINO SJ BOURGEOIS AL

DIARRHOEAL DISEASE: CURRENT CONCEPTS AND FUTURE CHALLENGES:
EPIDEMIOLOGY OF DIARRHOEAL DISEASES IN DEVELOPED
COUNTRIES.
TRANSACTIONS OF THE ROYAL SOCIETY OF TROPICAL MEDICINE AND
HYGIENE 1993;87(SUPPL.3):7-11
ENTERIC DISEASES
3M161102BS13.AK1395 (DN241501) REPORT NO.4
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NMRI 93-0096
FERNANDEZ R CARBAJAL F ALEXANDER B
NEED JT
LUTZOMYIA (TRICHOPHOROMYIA) PASTAZAENSIS, A NEW SPECIES OF
PHLEBOTOMINE SAND FLY (DIPTERA: PSYCHODIDAE:
PHLEBOTOMINAE) FROM THE PERUVIAN AMAZON.
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LIMA DETACHMENT
3M161102BS13.AK1265 (DN243563) REPORT NO.2
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AD A275 752

NMRI 93-0097
LUM LG JOSHI ID GALOFORO SC
ABELLA E KARANES C RATANATHARATHORN V
SCHULTZ KR UBERTI JP SENSENBRENNER LL
LEDBETTER JA JUNE CH
COACTIVATION WITH ANTI-CD28 MONOCLONAL ANTIBODY ENHANCES
ANTI-CD3 MONOCLONAL ANTIBODY-INDUCED PROLIFERATION AND
IL-2 SYNTHESIS IN T_CELLS FROM AUTOLOGOUS BONE MARROW
TRANSPLANT RECIPIENTS.
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IMMUNE CELL BIOLOGY
M0095.003.1007 (DN677130) REPORT NO.119
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NMRI 93-0098
YAO R ALM RA TRUST TJ
GUERRY PA
CONSTRUCTION OF NEW CAMPYLOBACTER CLONING VECTORS AND A NEW
MUTATIONAL CAT CASSETTE.
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3M161102BS13.AK1291 (DN243527) REPORT NO.5
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GENES, BACTERIAL
GENETIC VECTORS
MUTAGENESIS, INSERTIONAL
AD A275 605

NMRI 93-0099
ROGERS E SHOLDT LL FALCON R
EFFECTS OF INCORPORATING CHEMICAL LIGHT SOURCES IN CDC
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CULEX, ANOPHELES AND URANOTAENIA (DIPTERA: CULICIDAE).
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3M162787A870.AN1261 (DN243564) REPORT NO.2
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NMRI 93-0100
OYOFO BA ROLLINS DM
EFFICACY OF FILTER TYPES FOR DETECTING CAMPYLOBACTER_JEJUNI AND CAMPYLOBACTER_COLI IN ENVIRONMENTAL WATER SAMPLES BY POLYMERASE CHAIN REACTION.
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NMRI 93-0101
SILVA MR KESSLER S ASCENSAO JL
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MM33C30.005.1051 (DN249507) REPORT NO.26
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SNAPPER CM YAMAGUCHI H MOORMAN MA
SNEED R SMOOT D MOND JJ
NATURAL KILLER CELLS INDUCE ACTIVATED MURINE_B CELLS TO SECRETE IG.
JOURNAL OF IMMUNOLOGY 1993 NOV.15;151(10):5251-60
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MM33C30.005.1413 (DN244510) REPORT NO.1
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NMRI 93-0103
COLTON JS GROSSMAN Y MILLER K
POCOTTE SL
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NMRI 93-0104
STRUEWING JP HYAMS KC TUELLER JE
GRAY GC
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NMRI 93-0105
EGAN JE HOFFMAN SL HAYNES JD
SADOFF JC SCHNEIDER I GRAU GE
HOLLINGDALE MR BALLOU WR GORDON DM
HUMORAL IMMUNE RESPONSES IN VOLUNTEERS IMMUNIZED WITH IRRADIATED PLASMODIUM_FALCIPARUM SPOROZOITES.

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NMRI 93-0106
WEISS WR SEDEGAH M BERZOFSKY JA
HOFFMAN SL
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SPOROZOITES.
JOURNAL OF IMMUNOLOGY 1993 SEP 1;151(5):2690-8
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3M161102BS13.AK1285 (DN243531) REPORT NO.6
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NMRI 93-0107
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MR00001.001.1384 (DN240526) REPORT NO.2
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BARHAM WB FIGUEROA R PHILLIPS IA HYAMS KC
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NMRI REPORT. MARCH 1994. 22 PP.
HYPERBARIC ENVIRONMENT ADAPTATION
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NMRI 94-0003
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FROM HYPERBARIC OXYGEN EXPOSURE IN MAN: EFFECTS OF
IMMERSION, EXERCISE, AND OLD AND NEW DATA.
NMRI REPORT. MARCH 1994.
DIVING PHYSIOLOGY AND BIOCHEMISTRY
M0099.01C.1011 (DN248526) REPORT NO.4

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LILLO RS RUBY A BRESNAN MR
CALDWELL JM COMPTON DW
SAMPLING OF BREATHABLE AIR IN U.S NAVY SONAR DOMES.
NMRI REPORT. MARCH 1994.
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M0099.01A.1002 (DN1777792) REPORT NO.30

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MALARIA
3M463807D808.AQ1275 (DN243520) REPORT NO.9

NMRI 94-0006
BEADLE C LONG GW WEISS WR
MCELROY PD MARET SM OLOO AJ
HOFFMAN SL
DIAGNOSIS OF MALARIA BY DETECTION OF PLASMODIUM_FALCIPARUM
HRP-2 ANTIGEN WITH A RAPID DIPSTICK ANTIGEN-CAPTURE
ASSAY.
LANCET 1994;343:564-8
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3M463807D808.AQ1275 (DN243520) REPORT NO.10
MR00001.001.1403 (DN243525) REPORT NO.1

NMRI 94-0007
HOBAN LD PIERCE M QUANCE J
HAYWARD I MCKEE A GOWDA D CURRY DW
WILLIAMS T
USE OF POLYPENTAPEPTIDES OF ELASTIN TO PREVENT
POSTOPERATIVE ADHESIONS: EFFICACY IN A CONTAMINATED
PERITONEAL MODEL.
JOURNAL OF SURGICAL RESEARCH 1994;56:179-83
SEPTIC SHOCK RESEARCH
M0095.001.1005 (DN977556) REPORT NO.62

e. List all technical books and/or chapters written by the in-house technical staff that were published or accepted for publication since 1 January 1990. Included in above list.

f. Identify any Nobel laureates employed at this activity. None

g. List all non-governmental awards for research or technical excellence given to members of your technical staff since 1 January 1990.

None.

h. List all governmental awards for research or technical excellence given to members of your technical staff since 1 January 1990.

Dr. L. A. Kiesow, Civilian Distinguished Service Award, 1991.

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NMRI 94-0005
JONES TR BAIRD JK BANGS MJ
ANNIS BA PURNOMO BASRI H
GUNAWAN S HARJOSUWARNO S MCELROY PD
HOFFMAN SL
MALARIA VACCINE STUDY SITE IN IRIAN JAYA, INDONESIA:
PLASMODIUM_FALCIPARUM INCIDENCE MEASUREMENTS AND
EPIDEMIOLOGIC CONSIDERATIONS IN SAMPLE SIZE ESTIMATION.
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NMRI 94-0006
BEADLE C LONG GW WEISS WR
MCELROY PD MARET SM OLOO AJ
HOFFMAN SL
DIAGNOSIS OF MALARIA BY DETECTION OF PLASMODIUM_FALCIPARUM
HRP-2 ANTIGEN WITH A RAPID DIPSTICK ANTIGEN-CAPTURE
ASSAY.
LANCET 1994;343:564-8
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3M463807D808.AQ1275 (DN243520) REPORT NO.10
MR00001.001.1403 (DN243525) REPORT NO.1

NMRI 94-0007
HOBAN LD PIERCE M QUANCE J
HAYWARD I MCKEE A GOWDA D CURRY DW WILLIAMS T
USE OF POLYPENTAPEPTIDES OF ELASTIN TO PREVENT
POSTOPERATIVE ADHESIONS: EFFICACY IN A CONTAMINATED
PERITONEAL MODEL.
JOURNAL OF SURGICAL RESEARCH 1994;56:179-83
SEPTIC SHOCK RESEARCH
M0095.001.1005 (DN977556) REPORT NO.62

e. List all technical books and/or chapters written by the in-house technical staff that were published or accepted for publication since 1 January 1990. None.

f. Identify any Nobel laureates employed at this activity. None

g. List all non-governmental awards for research or technical excellence given to members of your technical staff since 1 January 1990.

None.

h. List all governmental awards for research or technical excellence given to members of your technical staff since 1 January 1990.

Dr. L. A. Kiesow Civilian Distinguished Service Award.

i. List all patents awarded to the in-house technical staff members of this activity since 1 January 1990.

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5/31/94

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j. List all patents applied for by the in-house technical staff members of this activity since 1 January 1990.

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k. Identify any in-house staff that are members of the National Academy of Engineering.

None.

l. Identify any in-house staff that are members of the National Academy of Sciences.

None.

m. How many Cooperative Research and Development Agreements (CRDAs) have been signed by the activity since 1 January 1990?

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R

(3) Identify installed equipment to be provided based on the threshold guidance of paragraph 6, page 12, of this data call.

(4) The additional square footage that this project will provide to the functional support area(s).

(5) The current working estimate (CWE) & planned beneficial occupancy date (BOD) of the project.

c. What MILCON projects are currently programmed to be executed/completed after FY1995? For each project provide: N/A

(1) A description of the proposed facility with title and project number.

(2) The functional support area(s) the new facility will support.

(3) The identified installed equipment to be provided based on the threshold guidance of paragraph 6, page 12, of this data call.

(4) The additional square footage this project will provide to the functional support area(s).

(5) CWE & planned BOD.

d. What is the distance (in miles) to the nearest military airfield and/or pier not located at your site? Describe. Assume all previous BRAC closures have been executed. 25 Miles (Andrews Air Force Base).

e. How many certified magazines, used for the storage of explosives, does this activity own or control? What is the total explosive weight storage capacity? N/A.

LOCATION

8. **Geographic Location.**

a. Is there an imperative in facility, function or synergy that requires the installation/base/facility to be in its present location? If yes, describe.
None.

b. What is the importance of the present location relative to customers supported?
N/A

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15, plus 12 additional CRDAs are pending final approval.

n. What has been the activity's annual royalty income from CRDAs and patent licenses for each year since 1 January 1990?

BUMED-825 N/A
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o. List and describe any major end item prototypes, either product or process technology, developed in-house by the activity that are currently in production and/or are currently in use by the U.S. Armed Forces or by industry. Cite a published reference that documents the work.

N/A

FACILITIES AND EQUIPMENT

6. **Special Facilities/Equipment Resources.** Include a copy of the form provided at Tab B of this data call for each facility and "major" piece of equipment located at this activity. Include information on separate detachments. The following definitions will apply:

Facilities - Will include such things as rocket firing bays, towing tanks, anechoic chambers, hypervelocity gun ranges, hyperbaric chambers, wind tunnels, simulation/emulation laboratories, etc. Include buildings that are integral to the facility/equipment. Do not include major outdoor ranges or land.

Also, describe modeling and simulation capabilities, hardware in-the-loop facilities and analysis or wargaming capabilities.

Equipment - Resources used to support the operation of the site with a replacement value of $500,000 or greater. Do not include land or buildings in this category. In reporting equipment, provide information to indicate the degree of portability of the equipment.
Class 3 Personal Property items ("plant equipment" or "equipment in place") by definition are highly portable and can be moved easily. Some Class 2 Installed Equipment, such as Main-frame computers, test stands and small hyperbaric chambers, require more extensive utilities support and assembly of components, but can be relocated without damage to the facility or equipment, and therefore are considered "moveable" assets. Other Class 2 items are so large and/or integral to the facility that houses them that major demolition and construction would be required to relocate them, and therefore are considered "fixed" assets. Where appropriate, pieces of equipment can be aggregated for the purposes of completing Tab B.

7. **General Facilities.**

a. Is there any cash revenue generated by this activity? Example: Electricity generated at this activity and sold to the local community. If yes, describe. No.

b. What MILCON projects are currently programmed to be completed by the end of FY1995? For each project provide: N/A

(1) A description of the proposed facility with title and project number. Be sure to include the trailing alpha designator for BRACs-88, 91 and 93 realignment projects, i.e., P-xxxR, P-xxxS, P-xxxT .

(2) The functional support area(s) that the new facility will support. Refer to Appendix A.

(3) Identify installed equipment to be provided based on the threshold guidance of paragraph 6, page 12, of this ~~data call.~~

(4) The additional square footage that this project will provide to the functional support area(s).

(5) The current working estimate (CWE) & planned beneficial occupancy date (BOD) of the project.

c. What MILCON projects are currently programmed to be executed/completed after FY1995? For each project provide: N/A

(1) A description of the proposed facility with title and project number.

(2) The functional support area(s) the new facility will support.

(3) The identified installed equipment to be provided based on the threshold guidance of paragraph 6, page 12, of this data call.

(4) The additional square footage this project will provide to the functional support area(s).

(5) CWE & planned BOD.

d. What is the distance (in miles) to the nearest military airfield and/or pier not located at your site? Describe. Assume all previous BRAC closures have been executed. 25 Miles (Andrews Air Force Base).

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R

FEATURES AND CAPABILITIES

9. **Computational Facilities.**

a. Describe the general and special computational capabilities at this site. Include super computing, parallel computing, distributed computing and networking. Include high-speed data transfer, fiber optic links, microwave links, network interconnectivity and video teleconferencing capabilities. Do not discuss desktops and laptops except as they relate to networking. N/A

10. **Mobilization Responsibility and Capability.**

a. Describe any mobilization responsibility officially assigned to this site. Cite the document assigning the responsibility.
None.

(1) What functional support area(s) does this responsibility support? Refer to Appendix A for the list of functional support areas?

(2) What portion of the work years and dollars, as reported in each applicable functional support area reported in Tab A, are spent solely on maintaining your activity's readiness to execute the mobilization responsibilities?

(3) How many additional personnel (military & civilian) would be assigned to your activity as part of the mobilization responsibility? Include separately any contractor assets that would be added.

b. Does your activity have adequate facilities to support your mobilization responsibilities? (yes/no) N/A.

(1) If yes, is any space assigned for the sole purpose of maintaining mobilization readiness? (yes/no) If yes, list the square footage assigned.

(2) If no, what repairs, renovations and/or additions are required to provide adequate facilities? What is the estimated cost of this work?

(3) Are there any restrictions that would prevent work (noted in paragraph 10.b.(2) above) from taking place (i.e., AICUZ, environmental constraints, HERO, etc.)? If yes, describe. N/A.

c. Describe any production facilities that would be activated in case of a future

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e. How many certified magazines, used for the storage of explosives, does this activity own or control? What is the total explosive weight storage capacity? N/A.

LOCATION

8. **Geographic Location.**

a. Is there an imperative in facility, function or synergy that requires the installation/base/facility to be in its present location? No. If yes, describe.

b. What is the importance of the present location relative to customers supported?

FEATURES AND CAPABILITIES

9. **Computational Facilities.**

a. Describe the general and special computational capabilities at this site. Include super computing, parallel computing, distributed computing and networking. Include high-speed data transfer, fiber optic links, microwave links, network interconnectivity and video teleconferencing capabilities. Do not discuss desktops and laptops except as they relate to networking.

10. **Mobilization Responsibility and Capability.**

a. Describe any mobilization responsibility officially assigned to this site. Cite the document assigning the responsibility.

(1) What functional support area(s) does this responsibility support? Refer to Appendix A for the list of functional support areas?

(2) What portion of the work years and dollars, as reported in each applicable functional support area reported in Tab A, are spent solely on maintaining your activity's readiness to execute the mobilization responsibilities?

(3) How many additional personnel (military & civilian) would be assigned to your activity as part of the mobilization responsibility? Include separately any contractor assets that would be added.

b. Does your activity have adequate facilities to support your mobilization responsibilities? (yes/no)

(1) If yes, is any space assigned for the sole purpose of maintaining mobilization readiness? (yes/no) If yes, list the square footage assigned.

(2) If no, what repairs, renovations and/or additions are required to provide adequate facilities? What is the estimated cost of this work?

(3) Are there any restrictions that would prevent work (noted in paragraph 10.b.(2) above) from taking place (i.e., AICUZ, environmental constraints, HERO, etc.)? If yes, describe.

c. Describe any production facilities that would be activated in case of a future contingency.

d. Is your activity used as a Reserve Unit mobilization and/or training site?

11. **Range Resources.** Include a copy of the form provided at Tab C of this data call for each range located at this activity or operated by this activity. Also, report ranges at detachments and sites not receiving a separate data call. The following definition of a range will apply:

Range - An instrumented or non-instrumented area that utilizes air, land, and/or water space to support test and evaluation, measurements, training and data collection functions, but is not enclosed within a building.

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8. **Geographic Location.**

a. Is there an imperative in facility, function or synergy that requires the installation/base/facility to be in its present location? NONE. If yes, describe.

b. What is the importance of the present location relative to customers supported? N/A

FEATURES AND CAPABILITIES

9. **Computational Facilities.**

a. Describe the general and special computational capabilities at this site. Include super computing, parallel computing, distributed computing and networking. Include high-speed data transfer, fiber optic links, microwave links, network interconnectivity and video teleconferencing capabilities. Do not discuss desktops and laptops except as they relate to networking.

10. **Mobilization Responsibility and Capability.**

a. Describe any mobilization responsibility officially assigned to this site. Cite the document assigning the responsibility.
N/A

(1) What functional support area(s) does this responsibility support? Refer to Appendix A for the list of functional support areas?

(2) What portion of the work years and dollars, as reported in each applicable functional support area reported in Tab A, are spent solely on maintaining your activity's readiness to execute the mobilization responsibilities?

(3) How many additional personnel (military & civilian) would be assigned to your activity as part of the mobilization responsibility? Include separately any contractor assets that would be added.

b. Does your activity have adequate facilities to support your mobilization responsibilities? (yes/no)

(1) If yes, is any space assigned for the sole purpose of maintaining mobilization readiness? (yes/no) If yes, list the square footage assigned.

(2) If no, what repairs, renovations and/or additions are required to provide adequate facilities? What is the estimated cost of this work?

(3) Are there any restrictions that would prevent work (noted in paragraph 10.b.(2) above) from taking place (i.e., AICUZ, environmental constraints, HERO, etc.)? If yes, describe. N/A.

c. Describe any production facilities that would be activated in case of a future contingency.

d. Is your activity used as a Reserve Unit mobilization and/or training site? Yes.

Administrative only.

11. **Range Resources.** Include a copy of the form provided at Tab C of this data call for each range located at this activity or operated by this activity. Also, report ranges at detachments and sites not receiving a separate data call. The following definition of a range will apply:

Range - An instrumented or non-instrumented area that utilizes air, land, and/or water space to support test and evaluation, measurements, training and data collection functions, but is not enclosed within a building.

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contingency. N/A

d. Is your activity used as a Reserve Unit mobilization and/or training site?
Yes, administrative functions only.

11. **Range Resources.** Include a copy of the form provided at Tab C of this data call for each range located at this activity or operated by this activity. Also, report ranges at detachments and sites not receiving a separate data call. The following definition of a range will apply:

Range - An instrumented or non-instrumented area that utilizes air, land, and/or water space to support test and evaluation, measurements, training and data collection functions, but is not enclosed within a building.

QUALITY OF LIFE

12. **Military Housing**

(a) Family Housing:

(1) Do you have mandatory assignment to on-base housing? (circle) yes no

Yes, for unmarried E-4 and below through the Host Command (National Naval Medical Center).

(2) For military family housing in your locale provide the following information:

Type of Quarters	Number of Bedrooms	Total number of units	Number Adequate	Number Substandard	Number Inadequate
Officer N/A	4+				
Officer N/A	3				
Officer N/A	1 or 2				
Enlisted N/A	4+				
Enlisted N/A	3				
Enlisted N/A	1 or 2				

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12.
Military Housing

(a) Family Housing:

(1) Do you have mandatory assignment to on-base housing? (circle) yes no

Yes, for unmarried E-4 and below.

(2) For military family housing in your locale provide the following information:

Type of Quarters	Number of Bedrooms	Total number of units	Number Adequate	Number Substandard	Number Inadequate
Officer N/A	4+				
Officer N/A	3				
Officer N/A	1 or 2				
Enlisted N/A	4+				
Enlisted N/A	3				
Enlisted N/A	1 or 2				
Mobile Homes N/A					
Mobile Home lots N/A					

(3) In accordance with NAVFACINST 11010.44E,an inadequate facility cannot be made adequate for its present use through "economically justifiable means". For all the categories above where inadequate facilities are identified provide the following information:

Facility type/code:
What makes it inadequate?
What use is being made of the facility?
What is the cost to upgrade the facility to substandard?
What other use could be made of the facility and at what cost?
Current improvement plans and programmed funding:
Has this facility condition resulted in C3 or C4 designation on your BASEREP?

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(4) Complete the following table for the military housing waiting list.

N/A

Pay Grade	Number of Bedrooms	Number on List[3]	Average Wait
O-6/7/8/9	1		
	2		
	3		
	4+		
O-4/5	1		
	2		
	3		
	4+		
O-1/2/3/CWO	1		
	2		
	3		
	4+		
E7-E9	1		
	2		
	3		
	4+		
E1-E6	1		
	2		
	3		
	4+		

[3] As of 31 March 1994.

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(5) What do you consider to be the top five factors driving the demand for base housing? Does it vary by grade category? If so provide details.

	Top Five Factors Driving the Demand for Base Housing
1	Cost of civilian housing.
2	Drive time from any base housing to this facility is lengthy.
3	Area Availability.
4	
5	

(6) What percent of your family housing units have all the amenities required by "The Facility Planning & Design Guide" (Military Handbook 1190 & Military Handbook 1035-Family Housing)?

N/A/

(7) Provide the utilization rate for family housing for FY 1993.

N/A

Type of Quarters	Utilization Rate
Adequate	N/A
Substandard	
Inadequate	

(8) As of 31 March 1994, have you experienced much of a change since FY 1993? If so, why? If occupancy is under 98% (or vacancy over 2%), is there a reason? N/A/

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(b) BEQ: N/A. BEQs belong to NNMC.

(1) Provide the utilization rate for BEQs for FY 1993.

Type of Quarters	Utilization Rate
Adequate	N/A
Substandard	
Inadequate	

(2) As of 31 March 1994, have you experienced much of a change since FY 1993? If so, why? If occupancy is under 95% (or vacancy over 5%), is there a reason? N/A

(3) Calculate the Average on Board (AOB) for geographic bachelors as follows:

$$\text{AOB} = \frac{(\text{\# Geographic Bachelors x average number of days in barracks})}{365}$$

(4) Indicate in the following chart the percentage of geographic bachelors (GB) by category of reasons for family separation. Provide comments as necessary. N/A.

Reason for Separation from Family	Number of GB	Percent of GB	Comments
Family Commitments (children in school, financial, etc.)			
Spouse Employment (non-military)			
Other			
TOTAL		100	

(5) How many geographic bachelors do not live on base? N/A

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(c) BOQ:

(1) Provide the utilization rate for BOQs for FY 1993. N/A. The BOQ belongs to NNMC.

Type of Quarters	Utilization Rate
Adequate	
Substandard	
Inadequate	

(2) As of 31 March 1994, have you experienced much of a change since FY 1993? If so, why? If occupancy is under 95% (or vacancy over 5%), is there a reason? N/A.

(3) Calculate the Average on Board (AOB) for geographic bachelors as follows:

$$\text{AOB} = \frac{(\text{\# Geographic Bachelors x average number of days in barracks})}{365}$$

(4) Indicate in the following chart the percentage of geographic bachelors (GB) by category of reasons for family separation. Provide comments as necessary. N/A.

Reason for Separation from Family	Number of GB	Percent of GB	Comments
Family Commitments (children in school, financial, etc.)			
Spouse Employment (non-military)			
Other			
TOTAL		100	

(5) How many geographic bachelors do not live on base? N/A/.

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(d) BOQ/BEQ Housing and Messing.

(1) Provide data on the BOQs and BEQs assigned to your current plant account. The desired unit of measure for this capacity is people housed. Use CCN to differentiate between pay grades, i.e., E1-E4, E5-E6, E7-E9, CWO-O2, O3 and above. N/A/.

Facility Type, Bldg. # & CCN	Total No. of Beds	Total No. of Rooms	Adequate		Substandard		Inadequate	
			Beds	Sq Ft	Beds	Sq Ft	Beds	Sq Ft
N/A/								

(2) In accordance with NAVFACINST 11010.44E,an inadequate facility cannot be made adequate for its present use through "economically justifiable means". For all the categories above where inadequate facilities are identified provide the following information:

N/A

a. FACILITY TYPE/CODE:
b. WHAT MAKES IT INADEQUATE?
c. WHAT USE IS BEING MADE OF THE FACILITY?
d. WHAT IS THE COST TO UPGRADE THE FACILITY TO SUBSTANDARD?
e. WHAT OTHER USE COULD BE MADE OF THE FACILITY AND AT WHAT COST?
f. CURRENT IMPROVEMENT PLANS AND PROGRAMMED FUNDING:
g. HAS THIS FACILITY CONDITION RESULTED IN C3 OR C4 DESIGNATION ON YOUR BASEREP?

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(3) Provide data on the BOQs and BEQs projected to be assigned to your plant account in FY 1997 The desired unit of measure for this capacity is people housed. Use CCN to differentiate between pay grades, i.e., E1-E4, E5-E6, E7-E9, CWO-O2, O3 and above.

Facility Type, Bldg. # & CCN	Total No. of Beds	Total No. of Rooms	Adequate		Substandard		Inadequate	
			Beds	Sq Ft	Beds	Sq Ft	Beds	Sq Ft
N/A								

(4) In accordance with NAVFACINST 11010.44E,an inadequate facility cannot be made adequate for its present use through "economically justifiable means". For all the categories above where inadequate facilities are identified provide the following information:

N/A

a. FACILITY TYPE/CODE:
b. WHAT MAKES IT INADEQUATE?
c. WHAT USE IS BEING MADE OF THE FACILITY?
d. WHAT IS THE COST TO UPGRADE THE FACILITY TO SUBSTANDARD?
e. WHAT OTHER USE COULD BE MADE OF THE FACILITY AND AT WHAT COST?
f. CURRENT IMPROVEMENT PLANS AND PROGRAMMED FUNDING:
g. HAS THIS FACILITY CONDITION RESULTED IN C3 OR C4 DESIGNATION ON YOUR BASEREP?

(5) Provide data on the messing facilities assigned to your current plant account.

Facility Type, CCN and Bldg. #	Total Sq. Ft.	Adequate		Substandard		Inadequate		Avg # Noon Meals Served
		Seats	Sq Ft	Seats	Sq Ft	Seats	Sq Ft	
N/A								

(6) In accordance with NAVFACINST 11010.44E,an inadequate facility cannot be made adequate for its present use through "economically justifiable means". For all the categories above where inadequate facilities are identified provide the following information:

N/A

a. FACILITY TYPE/CODE:
b. WHAT MAKES IT INADEQUATE?
c. WHAT USE IS BEING MADE OF THE FACILITY?
d. WHAT IS THE COST TO UPGRADE THE FACILITY TO SUBSTANDARD?
e. WHAT OTHER USE COULD BE MADE OF THE FACILITY AND AT WHAT COST?
f. CURRENT IMPROVEMENT PLANS AND PROGRAMMED FUNDING:
g. HAS THIS FACILITY CONDITION RESULTED IN C3 OR C4 DESIGNATION ON YOUR BASEREP?

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(7) Provide data on the messing facilities projected to be assigned to your plant account in FY 1997.

Facility Type, CCN and Bldg. #	Total Sq. Ft.	Adequate		Substandard		Inadequate		Avg # Noon Meals Served
		Seats	Sq Ft	Seats	Sq Ft	Seats	Sq Ft	
N/A								

(8) In accordance with NAVFACINST 11010.44E,an inadequate facility cannot be made adequate for its present use through "economically justifiable means". For all the categories above where inadequate facilities are identified provide the following information:

N/A

a. FACILITY TYPE/CODE:
b. WHAT MAKES IT INADEQUATE?
c. WHAT USE IS BEING MADE OF THE FACILITY?
d. WHAT IS THE COST TO UPGRADE THE FACILITY TO SUBSTANDARD?
e. WHAT OTHER USE COULD BE MADE OF THE FACILITY AND AT WHAT COST?
f. CURRENT IMPROVEMENT PLANS AND PROGRAMMED FUNDING:
g. HAS THIS FACILITY CONDITION RESULTED IN C3 OR C4 DESIGNATION ON YOUR BASEREP?

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13. **MWR Facilities**. For on-base MWR facilities[10] available, complete the following table for each separate location. For off-base government owned or leased recreation facilities indicate distance from base. If there are any facilities not listed, include them at the bottom of the table.

LOCATION NATIONAL NAVAL MEDICAL CENTER **DISTANCE** .5 Miles

Facility	Unit of Measure	Total	Profitable (Y,N,N/A)
Auto Hobby	Indoor Bays	O	
	Outdoor Bays	O	
Arts/Crafts	SF	O	
Wood Hobby	SF	O	
Bowling	Lanes	10	
Enlisted Club	SF	1	
Officer's Club	SF	1	
Library	SF	1	
Library	Books	N/A	
Theater	Seats	0	
ITT	SF	1	
Museum/Memorial	SF	0	
Pool (indoor)	Lanes	5	
Pool (outdoor)	Lanes	0	
Beach	LF	0	
Swimming Ponds	Each	0	
Tennis CT	Each	2	

Facility	Unit of Measure	Total	Profitable (Y,N,N/A)
Volleyball CT (outdoor)	Each	0	
Basketball CT (outdoor)	Each	0	
Racquetball CT	Each	0	
Golf Course	Holes	0	
Driving Range	Tee Boxes	0	
Gymnasium	SF	1	
Fitness Center	SF	1	

[10]Spaces designed for a particular use. A single building might contain several facilities, each of which should be listed separately.

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Marina	Berths	0	
Stables	Stalls	0	
Softball Fld	Each	1	
Football Fld	Each	0	
Soccer Fld	Each	0	
Youth Center	SF	0	

(a) Is your library part of a regional interlibrary loan program?
Yes.

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4. **Base Family Support Facilities and Programs.**

a. Complete the following table on the availability of child care in a child care center on your base.

Age Category	Capacity (Children)	SF			Number on Wait List	Average Wait (Days)
		Adequate	Substandard	Inadequate		
0-6 Mos	14	YES			160 plus total for all.	1 and 1/2 years total for all.
6-12 Mos	Included in the above number	YES				
12-24 Mos	Included in the above number	YES				
24-36 Mos	10					
3-5 Yrs	60					

b. In accordance with NAVFACINST 11010.44E,an inadequate facility cannot be made adequate for its present use through "economically justifiable means." For all the categories above where inadequate facilities are identified provide the following information:

Facility type/code:
What makes it inadequate?
What use is being made of the facility?
What is the cost to upgrade the facility to substandard?
What other use could be made of the facility and at what cost?
Current improvement plans and programmed funding:
Has this facility condition resulted in C3 or C4 designation on your BASEREP?

c. If you have a waiting list, describe what programs or facilities other than those sponsored by your command are available to accommodate those on the list. None.

d. How many "certified home care providers" are registered at your base?

N/A.

e. Are there other military child care facilities within 30 minutes of the base? Yes, Walter Reed Army Medical Center. Capacity unknown.

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f. Complete the following table for services available on your base. If you have any services not listed, include them at the bottom.

Service	Unit of Measure	Qty
Exchange	SF	1
Gas Station	SF	1
Auto Repair	SF	1
Auto Parts Store	SF	0
Commissary	SF	0
Mini-Mart	SF	1
Package Store	SF	1
Fast Food Restaurants	Each	1
Bank/Credit Union	Each	1
Family Service Center	SF	0
Laundromat	SF	1
Dry Cleaners	Each	1
ARC	PN	1
Chapel	PN	1
FSC Classrm/Auditorium	PN	

15. **Proximity of Closest Major Metropolitan Areas** (provide at least three):

City	Distance (Miles)
Washington, DC	10 Miles
Baltimore, MD	46 Miles
Richmond, VA	110 Miles

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f. Complete the following table for services available on your base. If you have any services not listed, include them at the bottom.

Service	Unit of Measure	Qty
Exchange	SF	1
Gas Station	SF	1
Auto Repair	SF	1
Auto Parts Store	SF	0
Commissary	SF	1
Mini-Mart	SF	1
Package Store	SF	1
Fast Food Restaurants	Each	1
Bank/Credit Union	Each	0
Family Service Center	SF	0
Laundromat	SF	1
Dry Cleaners	Each	1
ARC	PN	1
Chapel	PN	0
FSC Classrm/Auditorium	PN	

15. **Proximity of Closest Major Metropolitan Areas** (provide at least three):

City	Distance (Miles)
Washington, DC	10 Miles
Baltimore, MD	46 Miles
Richmond, VA	110 Miles

16. **Standard Rate VHA Data for Cost of Living:**

Paygrade	With Dependents	Without Dependents
E1	314.33	175.87
E2	314.33	197.67
E3	304.92	224.68
E4	333.54	232.79
E5	358.43	250.25

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17. **Off-base Housing Rental and Purchase**

(a) Fill in the following table for average rental costs in the area for the period 1 April 1993 through 31 March 1994. Costs in the Washington, DC area vary widely. Meaningful data is not available to this Command.

Type Rental	Average Monthly Rent:		Average Monthly Utilities Cost
	Annual High	Annual Low	
Efficiency			
Apartment (1-2 Bedroom)			
Apartment (3+ Bedroom)			
Single Family Home (3 Bedroom)			
Single Family Home (4+ Bedroom)			
Town House (2 Bedroom)			
Town House (3+ Bedroom)			
Condominium (2 Bedroom)			
Condominium (3+ Bedroom)			

(b) What was the rental occupancy rate in the community as of 31 March 1994?
Unknown. Not a meaningful variable.

Type Rental	Percent Occupancy Rate
Efficiency	
Apartment (1-2 Bedroom)	
Apartment (3+ Bedroom)	
Single Family Home (3 Bedroom)	
Single Family Home (4+ Bedroom)	
Town House (2 Bedroom)	
Town House (3+ Bedroom)	
Condominium (2 Bedroom)	

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E6	401.64	273.41
E7	445.49	309.46
E8	455.86	344.62
E9	444.44	337.38
W1	508.26	386.01
W2	539.96	423.51
W3	539.31	438.40
W4	503.58	446.50
O1E	431.76	320.26
O2E	471.21	375.69
O3E	487.77	412.65
O1	428.21	315.54
O2	411.12	321.34
O3	461.82	388.82
O4	495.17	430.60
O5	472.86	391.05
O6	464.70	384.64
O7	396.88	322.46

17. **Off-base Housing Rental ~~and Purchase~~**

(a) Fill in the following table for average rental costs in the area for the period 1 April 1993 through 31 March 1994.

Type Rental	Average Monthly Rent: NOT AVAILABLE		Average Monthly Utilities Cost
	Annual High	Annual Low	
Efficiency			
Apartment (1-2 Bedroom)			
Apartment (3+ Bedroom)			
Single Family Home (3 Bedroom)			
Single Family Home (4+ Bedroom)			
Town House (2 Bedroom)			
Town House (3+ Bedroom)			
Condominium (2 Bedroom)			
Condominium (3+ Bedroom)			

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(b) What was the rental occupancy rate in the community as of 31 March 1994?
N/A/.

Type Rental	Percent Occupancy Rate
Efficiency	
Apartment (1-2 Bedroom)	
Apartment (3+ Bedroom)	
Single Family Home (3 Bedroom)	
Single Family Home (4+ Bedroom)	
Town House (2 Bedroom)	
Town House (3+ Bedroom)	
Condominium (2 Bedroom)	
Condominium (3+ Bedroom)	

(c) What are the median costs for homes in the area? N/A.

Type of Home	Median Cost
Single Family Home (3 Bedroom)	
Single Family Home (4+ Bedroom)	
Town House (2 Bedroom)	
Town House (3+ Bedroom)	
Condominium (2 Bedroom)	
Condominium (3+ Bedroom)	

(d) For calendar year 1993, from the local MLS listings provide the number of 2, 3, and 4 bedroom homes available for purchase. Use only homes for which monthly payments would be within 90 to 110 percent of the E5 BAQ and VHA for your area. NOT AVAILABLE.

Month	Number of Bedrooms		
	2	3	4+
January			
February			
March			
April			
May			
June			
July			
August			
September			

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November			
December			

(e) Describe the principle housing cost drivers in your local area.

18. **For the top five sea intensive ratings in the principle warfare community your base supports, provide the following:**

N/A.

Rating	Number Sea Billets in the Local Area	Number of Shore billets in the Local Area

19. **Complete the following table for the average one-way commute for the five largest concentrations of military and civilian personnel living off-base.**

Location	% Employees	Distance (mi)	Time(min)
Woodbridge, VA	N/A	37 Miles	1 hour plus
Bolling AFB, Washington, DC	N/A	22 Miles	1 Hour
Montgomery County, MD	N/A	15 Miles	30 Minutes
Prince Georges County, MD	N/A	15 Miles	30-60 Minutes
Fairfax County, VA	N/A	15 Miles	30-60 Minutes

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October			
November			
December			

(e) Describe the principle housing cost drivers in your local area.

18. **For the top five sea intensive ratings in the principle warfare community your base supports, provide the following:**
N/A.

Rating	Number Sea Billets in the Local Area	Number of Shore billets in the Local Area

19. **Complete the following table for the average one-way commute for the five largest concentrations of military and civilian personnel living off-base.**

Location	% Employees	Distance (mi)	Time(min)
Woodbridge, VA	N/A	37 Miles	1 hour plus
Bolling AFB, Washington, DC	N/A	22 Miles	

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20. **Complete the tables below to indicate the civilian educational opportunities available to service members stationed at the installation (to include any outlying sites) and their dependents:**

(a) List the local educational institutions which offer programs available to dependent children. Indicate the school type (e.g. DODDS, private, public, parochial, etc.), grade level (e.g. pre-school, primary, secondary, etc.), what students with special needs the institution is equipped to handle, cost of enrollment, and for high schools only, the average SAT score of the class that graduated in 1993, and the number of students in that class who enrolled in college in the fall of 1994.

The Naval Medical Research Institute is located in the metropolitan area and their are a multiple number of schools for all possible needs.

Institution	Type	Grade Level(s)	Special Education Available	Annual Enrollment Cost per Student	1993 Avg SAT/ ACT Score	% HS Grad to Higher Educ	Source of Info

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(b) List the educational institutions within 30 miles which offer programs off-base available to service members and their adult dependents. Indicate the extent of their programs by placing a "Yes"
or "No" in all boxes as applies.

The Naval Medical Research Institute is located in the Washington, DC metropolitan and has access to all types of curiculums.

Institution	Type Classes	Program Type(s)				
		Adult High School	Vocational/ Technical	Undergraduate		Graduate
				Courses only	Degree Program	
	Day					
	Night					
	Day					
	Night					
	Day					
	Night					
	Day					
	Night					

(c) List the educational institutions which offer programs on-base available to service members and their adult dependents. Indicate the extent of their programs by placing a "Yes" or "No" in all boxes as applies.

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Institution	Type Classes	Program Type(s)				
		Adult High School	Vocational/ Technical	Undergraduate		Graduate
				Courses only	Degree Program	
Southern Illinois University	Day	N/A	N/A/	N/A	B.S. Health Care Administr ation	N/A
	Night	N/A	N/A	N/A		
	Corres-pondence	N/A	N/A	N/A		
Geroge Washington University	Day	N/A	N/A	N/A	N/A	Masters in Higher Educatio n
	Night	N/A	N/A	N/A	N/A	N/A
	Corres-pondence	N/A	N/A	N/A	N/A	N/A
Troy State University	Day	N/A	N/A	N/A	N/A	Masters in Public Adminstr ation
	Night	N/A		N/A	N/A	N/A
	Corres-pondence	N/A		N/A	N/A/	N/A
	Day					
	Night					
	Corres-pondence					

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20. **Complete the tables below to indicate the civilian educational opportunities available to service members stationed at the installation (to include any outlying sites) and their dependents:**

(a) List the local educational institutions which offer programs available to dependent children. Indicate the school type (e.g. DODDS, private, public, parochial, etc.), grade level (e.g. pre-school, primary, secondary, etc.), what students with special needs the institution is equipped to handle, cost of enrollment, and for high schools only, the average SAT score of the class that graduated in 1993, and the number of students in that class who enrolled in college in the fall of 1994.

The Naval Medical Research Institute is located in the metropolitan area and their are a multiple number of schools for alll needs.

Institution	Type	Grade Level(s)	Special Education Available	Annual Enrollment Cost per Student	1993 Avg SAT/ ACT Score	% HS Grad to Higher Educ	Source of Info

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(b) List the educational institutions within 30 miles which offer programs off-base available to service members and their adult dependents. Indicate the extent of their programs by placing a "Yes" or "No" in all boxes as applies.

The Naval Medical Research Institute is located in the Washington, DC metropolitan and has access to all types of curiculums.

Institution	Type Classes	Program Type(s)				
		Adult High School	Vocational/ Technical	Undergraduate		Graduate
				Courses only	Degree Program	
	Day					
	Night					
	Day					
	Night					
	Day					
	Night					
	Day					
	Night					

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(c) List the educational institutions which offer programs on-base available to service members and their adult dependents. Indicate the extent of their programs by placing a "Yes" or "No" in all boxes as applies.

Institution	Type Classes	Program Type(s)				
		Adult High School	Vocational / Technical	Undergraduate		Graduate
				Courses only	Degree Program	
Southern Illinois University	Day	N/A	N/A/	N/A	B.S. Health Care Administration	N/A
	Night	N/A	N/A	N/A		
	Corres-pondence	N/A	N/A	N/A		
Geroge Washington University	Day	N/A	N/A	N/A	N/A	Masters in Higher Education
	Night	N/A	N/A	N/A	N/A	N/A
	Corres-pondence	N/A	N/A	N/A	N/A	N/A
Troy State University	Day	N/A	N/A	N/A	N/A	Masters in Public Adminstration
	Night	N/A		N/A	N/A	N/A
	Corres-pondence	N/A		N/A	N/A/	N/A
	Day					
	Night					

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	Corres-pondence					

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21. **Spousal Employment Opportunities.**

Provide the following data on spousal employment opportunities. Not Available.

Skill Level	Number of Military Spouses Serviced by Family Service Center Spouse Employment Assistance			Local Community Unemployment Rate
	1991	1992	1993	
Professional				
Manufacturing				
Clerical				
Service				
Other				

22. **Medical/Dental.**

a. Do your active duty personnel have any difficulty with access to medical or dental care, in either the military or civilian health care system? Develop the why of your response.

Military Healthcare: Yes, There are certain specialties that have long waiting lists. i.e., OB-GYN, Orthopaedics. The care provided is excellent.

Civilian Healthcare: Unknown.

b. Do your military dependents have any difficulty with access to medical or dental care, in either the military or civilian health care system? Develop the why of your response.

Military Healthcare: Yes, Various specialties within the military treatment facilities do not see dependents.

Civilian Healthcare: Unknown.

23 **Crime Rate.** Complete the table below to indicate the crime rate for your air station for the last three fiscal years. The source for case category definitions to be used in responding to this question are found in NCIS - Manual dated 23 February 1989, at Appendix A, entitled "Case Category Definitions." Note: the crimes reported in this table should include 1) all reported criminal activity which occurred on base regardless of whether the subject or the victim of that activity was assigned to or worked at the base; and 2) all reported criminal activity off base.

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21. **Spousal Employment Opportunities.**

Provide the following data on spousal employment opportunities. Not Available.

Skill Level	Number of Military Spouses Serviced by Family Service Center Spouse Employment Assistance			Local Community Unemployment Rate
	1991	1992	1993	
Professional				
Manufacturing				
Clerical				
Service				
Other				

22. **Medical/Dental.**

a. Do your active duty personnel have any difficulty with access to medical or dental care, in either the military or civilian health care system? Develop the why of your response.

Yes, There are certain specialties that have long waiting lists. OB-GYN, Orthopaedics.

The care provided is excellent.

Civilian Healthcare: Unknown.

b. Do your military dependents have any difficulty with access to medical or dental care, in either the military or civilian health care system? Develop the why of your response.

Yes, Various specialties within the military treatment facilities do not see dependents.

Civilian Healthcare: Unknown.

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Crime Rates are not available. The following information was submitted by the National Naval Medical Center as the base Host Command. The numbers reflect the person reporting the crime, who may or may not have been the victim.

Crime Definitions	FY 1991	FY 1992	FY 1993
1. Arson (6A)	1	2	1
Base Personnel - military	1	1	0
Base Personnel - civilian	0	1	0
Off Base Personnel - military	0	0	0
Off Base Personnel - civilian	0	0	1
2. Blackmarket (6C)	0	0	0
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			
3. Counterfeiting (6G)	0	0	0
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			
4. Postal (6L)	1	0	1
Base Personnel - military	1	0	1
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			

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23 **Crime Rate**. Complete the table below to indicate the crime rate for your air station for the last three fiscal years. The source for case category definitions to be used in responding to this question are found in NCIS - Manual dated 23 February 1989, at Appendix A, entitled "Case Category Definitions." Note: the crimes reported in this table should include 1) all reported criminal activity which occurred on base regardless of whether the subject or the victim of that activity was assigned to or worked at the base; and 2) all reported criminal activity off base.

Crime Rates are not available.

Crime Definitions	FY 1991	FY 1992	FY 1993
1. Arson (6A)			
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			
2. Blackmarket (6C)			
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			
3. Counterfeiting (6G)			
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			
4. Postal (6L)			
Base Personnel - military			

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Crime Definitions	FY 1991	FY 1992	FY 1993
5. Customs (6M)	0	0	0
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			
6. Burglary (6N)	1	0	0
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian	1	0	0
7. Larceny - Ordnance (6R)	0	0	0
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			
8. Larceny - Government (6S)	30	32	51
Base Personnel - military	20	19	31
Base Personnel - civilian	10	13	20
Off Base Personnel - military	0	0	0
Off Base Personnel - civilian	0	0	0

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Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			

Crime Definitions	FY 1991	FY 1992	FY 1993
5. Customs (6M)			
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			
6. Burglary (6N)			
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			
7. Larceny - Ordnance (6R)			
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			
8. Larceny - Government (6S)			
Base Personnel - military			
Base Personnel - civilian			

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Off Base Personnel - military			
Off Base Personnel - civilian			

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Crime Definitions	FY 1991	FY 1992	FY 1993
9. Larceny - Personal (6T)	152	186	148
Base Personnel - military	100	112	92
Base Personnel - civilian	22	40	30
Off Base Personnel - military	14	20	10
Off Base Personnel - civilian	16	14	14
10. Wrongful Destruction (6U)	48	45	44
Base Personnel - military	23	27	26
Base Personnel - civilian	25	18	18
Off Base Personnel - military	0	0	0
Off Base Personnel - civilian	0	0	0
11. Larceny - Vehicle (6V)	3	0	7
Base Personnel - military	3	0	7
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			
12. Bomb Threat (7B)	3	1	3
Base Personnel - military	0	0	0
Base Personnel - civilian	3	1	3
Off Base Personnel - military	0	0	0
Off Base Personnel - civilian	0	0	0

Crime Definitions	FY 1991	FY 1992	FY 1993
13. Extortion (7E)	0	0	0
Base Personnel - military			

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Crime Definitions	FY 1991	FY 1992	FY 1993
9. Larceny - Personal (6T)			
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			
10. Wrongful Destruction (6U)			
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			
11. Larceny - Vehicle (6V)			
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			
12. Bomb Threat (7B)			
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			

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Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			
14. Assault (7G)	25	10	14
Base Personnel - military	20	6	8
Base Personnel - civilian	5	4	6
Off Base Personnel - military	0	0	0
Off Base Personnel - civilian	0	0	0
15. Death (7H)	0	0	0
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			
16. Kidnapping (7K)	0	0	0
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			

Crime Definitions	FY 1991	FY 1992	FY 1993
18. Narcotics (7N)	4	7	1
Base Personnel - military	1	3	0
Base Personnel - civilian	2	4	1
Off Base Personnel - military	1	0	0
Off Base Personnel - civilian	0	0	0
19. Perjury (7P)	0	0	0

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Crime Definitions	FY 1991	FY 1992	FY 1993
13. Extortion (7E)			
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			
14. Assault (7G)			
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			
15. Death (7H)			
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			
16. Kidnapping (7K)			
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			

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Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			
20. Robbery (7R)	0	0	0
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			
21. Traffic Accident (7T)	21	23	24
Base Personnel - military	5	9	6
Base Personnel - civilian	9	2	7
Off Base Personnel - military	4	5	4
Off Base Personnel - civilian	3	7	7

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Crime Definitions	FY 1991	FY 1992	FY 1993
18. Narcotics (7N)			
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			
19. Perjury (7P)			
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			
20. Robbery (7R)			
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			
21. Traffic Accident (7T)			
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			

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Crime Definitions	FY 1991	FY 1992	FY 1993
22. Sex Abuse - Child (8B)	0	0	0
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			
23. Indecent Assault (8D)	1	1	2
Base Personnel - military	1	1	2
Base Personnel - civilian	0	0	0
Off Base Personnel - military	0	0	0
Off Base Personnel - civilian	0	0	0
24. Rape (8F)	0	0	0
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			
25. Sodomy (8G)	0	0	0
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			

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Crime Definitions	FY 1991	FY 1992	FY 1993
22. Sex Abuse - Child (8B)			
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			
23. Indecent Assault (8D)			
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			
24. Rape (8F)			
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			
25. Sodomy (8G)			
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			

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TAB A

TECHNICAL OPERATIONS

FUNCTIONAL SUPPORT AREA - LIFE CYCLE WORK AREA FORM

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TAB A

TECHNICAL OPERATIONS

FUNCTIONAL SUPPORT AREA - LIFE CYCLE WORK AREA FORM

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Technical Center Site	NAVAL MEDICAL RESEARCH INSTITUTE
Functional Support Area	2.1.4 Explosive Ordnance Disposal
Life Cycle Work Area	3. Advanced Development

1. **In-House Work Years.** Provide the number of in-house government employee (civilian and military) work years for FY1993 that were performed in this functional support area - life cycle work area. Workyears are to be consistent with those used in the preparation of inputs to the President's budget. 15 WYs

2. **Expenditures.**

a. **In-House Expenditures.** Provide the total in-house cost in FY1993 for this functional support area - life cycle work area. $(K) 656

b. **Out-of-House Expenditures.** Provide the total funds expended during FY1993 for this functional support area - life cycle work area. **Do not** include direct cite funding. $(K) 756

c. **Direct Cites.** Provide total direct cite funds expended on contract during FY1993 for this functional support area - life cycle work area. $(K) 0

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Technical Center Site	NAVAL MEDICAL RESEARCH INSTITUTE
Functional Support Area	4.2 Coastal/Special Warfare Support
Life Cycle Work Area	1. Basic Research

1. **In-House Work Years.** Provide the number of in-house government employee (civilian and military) work years for FY1993 that were performed in this functional support area - life cycle work area. Workyears are to be consistent with those used in the preparation of inputs to the President's budget. __7__WYs

2. **Expenditures.**

a. **In-House Expenditures.** Provide the total in-house cost in FY1993 for this functional support area - life cycle work area. $(K)__458__

b. **Out-of-House Expenditures.** Provide the total funds expended during FY1993 for this functional support area - life cycle work area. **Do not** include direct cite funding. $(K)__103__

c. **Direct Cites.** Provide total direct cite funds expended on contract during FY1993 for this functional support area - life cycle work area. $(K)__0__

Technical Center Site	NAVAL MEDICAL RESEARCH INSTITUTE
Functional Support Area	4.2 Coastal/Special Warfare Support
Life Cycle Work Area	2. Exploratory Development

1. **In-House Work Years.** Provide the number of in-house government employee (civilian and military) work years for FY1993 that were performed in this functional support area - life cycle work area. Workyears are to be consistent with those used in the preparation of inputs to the President's budget. 7 WYs

2. **Expenditures.**

a. **In-House Expenditures.** Provide the total in-house cost in FY1993 for this functional support area - life cycle work area. $(K) 223

b. **Out-of-House Expenditures.** Provide the total funds expended during FY1993 for this functional support area - life cycle work area. **Do not** include direct cite funding. $(K) 129.2

c. **Direct Cites.** Provide total direct cite funds expended on contract during FY1993 for this functional support area - life cycle work area. $(K) 0

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Technical Center Site	NAVAL MEDICAL RESEARCH INSTITUTE
Functional Support Area	4.2 Coastal/Special Warfare Support
Life Cycle Work Area	3. Advanced Development

1. **In-House Work Years.** Provide the number of in-house government employee (civilian and military) work years for FY1993 that were performed in this functional support area - life cycle work area. Workyears are to be consistent with those used in the preparation of inputs to the President's budget. 7 WYs

2. **Expenditures.**

a. **In-House Expenditures.** Provide the total in-house cost in FY1993 for this functional support area - life cycle work area. $(K) 207.8

b. **Out-of-House Expenditures.** Provide the total funds expended during FY1993 for this functional support area - life cycle work area. **Do not** include direct cite funding. $(K) 138.5

c. **Direct Cites.** Provide total direct cite funds expended on contract during FY1993 for this functional support area - life cycle work area. $(K) 0

Technical Center Site	NAVAL MEDICAL RESEARCH INSTITUTE
Functional Support Area	10.4 Diving, Salvage and Ocean Engineering
Life Cycle Work Area	1. Basic Research

1. **In-House Work Years.** Provide the number of in-house government employee (civilian and military) work years for FY1993 that were performed in this functional support area - life cycle work area. Workyears are to be consistent with those used in the preparation of inputs to the President's budget. 14 WYs

2. **Expenditures.**

a. **In-House Expenditures.** Provide the total in-house cost in FY1993 for this functional support area - life cycle work area. $(K) 951

b. **Out-of-House Expenditures.** Provide the total funds expended during FY1993 for this functional support area - life cycle work area. **Do not** include direct cite funding. $(K) 213

c. **Direct Cites.** Provide total direct cite funds expended on contract during FY1993 for this functional support area - life cycle work area. $(K) 0

Technical Center Site	NAVAL MEDICAL RESEARCH INSTITUTE
Functional Support Area	10.4 Diving, Salvage and Ocean Engineering
Life Cycle Work Area	2. Exploratory Development

1. **In-House Work Years.** Provide the number of in-house government employee (civilian and military) work years for FY1993 that were performed in this functional support area - life cycle work area. Workyears are to be consistent with those used in the preparation of inputs to the President's budget. 8 WYs

2. **Expenditures.**

a. **In-House Expenditures.** Provide the total in-house cost in FY1993 for this functional support area - life cycle work area. $(K) 392.5

b. **Out-of-House Expenditures.** Provide the total funds expended during FY1993 for this functional support area - life cycle work area. **Do not** include direct cite funding. $(K) 227.5

c. **Direct Cites.** Provide total direct cite funds expended on contract during FY1993 for this functional support area - life cycle work area. $(K) 0

R

Technical Center Site	NAVAL MEDICAL RESEARCH INSTITUTE
Functional Support Area	10.4 Diving, Salvage and Ocean Engineering
Life Cycle Work Area	3. Advanced Development

1. **In-House Work Years.** Provide the number of in-house government employee (civilian and military) work years for FY1993 that were performed in this functional support area - life cycle work area. Workyears are to be consistent with those used in the preparation of inputs to the President's budget. 38 WYs

2. **Expenditures.**

a. **In-House Expenditures.** Provide the total in-house cost in FY1993 for this functional support area - life cycle work area. $(K) 1,387.4

b. **Out-of-House Expenditures.** Provide the total funds expended during FY1993 for this functional support area - life cycle work area. **Do not** include direct cite funding. $(K) 1,596.2

c. **Direct Cites.** Provide total direct cite funds expended on contract during FY1993 for this functional support area - life cycle work area. $(K) 0

R

Technical Center Site	NAVAL MEDICAL RESEARCH INSTITUTE
Functional Support Area	10.6.4 Medical Research and Combat Casualty Care
Life Cycle Work Area	1. Basic Research

1. **In-House Work Years.** Provide the number of in-house government employee (civilian and military) work years for FY1993 that were performed in this functional support area - life cycle work area. Workyears are to be consistent with those used in the preparation of inputs to the President's budget. 45 WYs

2. **Expenditures.**

a. **In-House Expenditures.** Provide the total in-house cost in FY1993 for this functional support area - life cycle work area. $(K) 3,578.3

b. **Out-of-House Expenditures.** Provide the total funds expended during FY1993 for this functional support area - life cycle work area. **Do not** include direct cite funding. $(K) 801.5

c. **Direct Cites.** Provide total direct cite funds expended on contract during FY1993 for this functional support area - life cycle work area. $(K) 0

Technical Center Site	NAVAL MEDICAL RESEARCH INSTITUTE
Functional Support Area	10.6.4 Medical Research and Combat Casualty Care
Life Cycle Work Area	2. Exploratory Development

1. **In-House Work Years.** Provide the number of in-house government employee (civilian and military) work years for FY1993 that were performed in this functional support area - life cycle work area. Workyears are to be consistent with those used in the preparation of inputs to the President's budget. 40 WYs

2. **Expenditures.**

a. **In-House Expenditures.** Provide the total in-house cost in FY1993 for this functional support area - life cycle work area. $(K) 2,690.6

b. **Out-of-House Expenditures.** Provide the total funds expended during FY1993 for this functional support area - life cycle work area. **Do not** include direct cite funding. $(K) 1,560

c. **Direct Cites.** Provide total direct cite funds expended on contract during FY1993 for this functional support area - life cycle work area. $(K) 0

R

Technical Center Site	NAVAL MEDICAL RESEARCH INSTITUTE
Functional Support Area	10.6.4 Medical Research and Combat Casualty Care
Life Cycle Work Area	3. Advanced Development

1. **In-House Work Years.** Provide the number of in-house government employee (civilian and military) work years for FY1993 that were performed in this functional support area - life cycle work area. Workyears are to be consistent with those used in the preparation of inputs to the President's budget. 57 WYs

2. **Expenditures.**

a. **In-House Expenditures.** Provide the total in-house cost in FY1993 for this functional support area - life cycle work area. $(K) 3,626.6

b. **Out-of-House Expenditures.** Provide the total funds expended during FY1993 for this functional support area - life cycle work area. **Do not** include direct cite funding. $(K)31,051.3

c. **Direct Cites.** Provide total direct cite funds expended on contract during FY1993 for this functional support area - life cycle work area. $(K) 0

R

Technical Center Site	NAVAL MEDICAL RESEARCH INSTITUTE
Functional Support Area	10.6.4 Medical Research and Combat Casualty Care
Life Cycle Work Area	5. RDT&E Management Support

1. **In-House Work Years.** Provide the number of in-house government employee (civilian and military) work years for FY1993 that were performed in this functional support area - life cycle work area. Workyears are to be consistent with those used in the preparation of inputs to the President's budget. 3 WYs

2. **Expenditures.**

a. **In-House Expenditures.** Provide the total in-house cost in FY1993 for this functional support area - life cycle work area. $(K) 517.4

b. **Out-of-House Expenditures.** Provide the total funds expended during FY1993 for this functional support area - life cycle work area. **Do not** include direct cite funding. $(K) 1,300.6

c. **Direct Cites.** Provide total direct cite funds expended on contract during FY1993 for this functional support area - life cycle work area. $(K) 0

R

Technical Center Site	NAVAL MEDICAL RESEARCH INSTITUTE TOXICOLOGY DETACHMENT
Functional Support Area	10.6.4 Medical Research and Combat Casualty Care
Life Cycle Work Area	1. Basic Research

1. **In-House Work Years.** Provide the number of in-house government employee (civilian and military) work years for FY1993 that were performed in this functional support area - life cycle work area. Workyears are to be consistent with those used in the preparation of inputs to the President's budget. __3__ WYs

2. **Expenditures.**

a. **In-House Expenditures.** Provide the total in-house cost in FY1993 for this functional support area - life cycle work area. $(K)__85__

b. **Out-of-House Expenditures.** Provide the total funds expended during FY1993 for this functional support area - life cycle work area. **Do not** include direct cite funding. $(K)__19__

c. **Direct Cites.** Provide total direct cite funds expended on contract during FY1993 for this functional support area - life cycle work area. $(K)__0__

Technical Center Site	NAVAL MEDICAL RESEARCH INSTITUTE TOXICOLOGY DETACHMENT
Functional Support Area	10.6.4 Medical Research and Combat Casualty Care
Life Cycle Work Area	2. Exploratory Development

R

1. **In-House Work Years.** Provide the number of in-house government employee (civilian and military) work years for FY1993 that were performed in this functional support area - life cycle work area. Workyears are to be consistent with those used in the preparation of inputs to the President's budget. 6 WYs

2. **Expenditures.**

a. **In-House Expenditures.** Provide the total in-house cost in FY1993 for this functional support area - life cycle work area. $(K) 298

b. **Out-of-House Expenditures.** Provide the total funds expended during FY1993 for this functional support area - life cycle work area. **Do not** include direct cite funding. $(K) 173

c. **Direct Cites.** Provide total direct cite funds expended on contract during FY1993 for this functional support area - life cycle work area. $(K) 0

Technical Center Site	NAVAL MEDICAL RESEARCH INSTITUTE TOXICOLOGY DETACHMENT
Functional Support Area	10.6.4 Medical Research and Combat Casualty Care
Life Cycle Work Area	3. Advanced Development

R

1. **In-House Work Years.** Provide the number of in-house government employee (civilian and military) work years for FY1993 that were performed in this functional support area - life cycle work area. Workyears are to be consistent with those used in the preparation of inputs to the President's budget. __6__ WYs

2. **Expenditures.**

a. **In-House Expenditures.** Provide the total in-house cost in FY1993 for this functional support area - life cycle work area. $(K)__191__

b. **Out-of-House Expenditures.** Provide the total funds expended during FY1993 for this functional support area - life cycle work area. **Do not** include direct cite funding. $(K)__127__

c. **Direct Cites.** Provide total direct cite funds expended on contract during FY1993 for this functional support area - life cycle work area. $(K)__0__

Technical Center Site	NAVAL MEDICAL RESEARCH INSTITUTE TOXICOLOGY DETACHMENT
Functional Support Area	10.6.4 Medical Research and Combat Casualty Care
Life Cycle Work Area	14. In-Service Engineering

R

1. **In-House Work Years.** Provide the number of in-house government employee (civilian and military) work years for FY1993 that were performed in this functional support area - life cycle work area. Workyears are to be consistent with those used in the preparation of inputs to the President's budget. __3__WYs

2. **Expenditures.**

a. **In-House Expenditures.** Provide the total in-house cost in FY1993 for this functional support area - life cycle work area. $(K)__0__

b. **Out-of-House Expenditures.** Provide the total funds expended during FY1993 for this functional support area - life cycle work area. **Do not** include direct cite funding. $(K)__743__

c. **Direct Cites.** Provide total direct cite funds expended on contract during FY1993 for this functional support area - life cycle work area. $(K)__0__

Technical Center Site	NAVAL MEDICAL RESEARCH INSTITUTE DETACHMENT LIMA, PERU
Functional Support Area	10.6.4 Medical Research and Combat Casualty Care
Life Cycle Work Area	1. Basic Research

1. **In-House Work Years.** Provide the number of in-house government employee (civilian and military) work years for FY1993 that were performed in this functional support area - life cycle work area. Workyears are to be consistent with those used in the preparation of inputs to the President's budget. __4__WYs

2. **Expenditures.**

a. **In-House Expenditures.** Provide the total in-house cost in FY1993 for this functional support area - life cycle work area. $(K)__122__

b. **Out-of-House Expenditures.** Provide the total funds expended during FY1993 for this functional support area - life cycle work area. **Do not** include direct cite funding. $(K)__27__

c. **Direct Cites.** Provide total direct cite funds expended on contract during FY1993 for this functional support area - life cycle work area. $(K)__0__

R

Technical Center Site	NAVAL MEDICAL RESEARCH INSTITUTE DETACHMENT LIMA, PERU
Functional Support Area	10.6.4 Medical Research and Combat Casualty Care
Life Cycle Work Area	2. Exploratory Development

1. **In-House Work Years.** Provide the number of in-house government employee (civilian and military) work years for FY1993 that were performed in this functional support area - life cycle work area. Workyears are to be consistent with those used in the preparation of inputs to the President's budget. __9__WYs

2. **Expenditures.**

a. **In-House Expenditures.** Provide the total in-house cost in FY1993 for this functional support area - life cycle work area. $(K)__218__

b. **Out-of-House Expenditures.** Provide the total funds expended during FY1993 for this functional support area - life cycle work area. **Do not** include direct cite funding. $(K)__127__

c. **Direct Cites.** Provide total direct cite funds expended on contract during FY1993 for this functional support area - life cycle work area. $(K)__0__

R

Technical Center Site	NAVAL MEDICAL RESEARCH INSTITUTE DETACHMENT LIMA, PERU
Functional Support Area	10.6.4 Medical Research and Combat Casualty Care
Life Cycle Work Area	3. Advanced Development

1. **In-House Work Years.** Provide the number of in-house government employee (civilian and military) work years for FY1993 that were performed in this functional support area - life cycle work area. Workyears are to be consistent with those used in the preparation of inputs to the President's budget. 14 WYs

2. **Expenditures.**

a. **In-House Expenditures.** Provide the total in-house cost in FY1993 for this functional support area - life cycle work area. $(K) 332

b. **Out-of-House Expenditures.** Provide the total funds expended during FY1993 for this functional support area - life cycle work area. **Do not** include direct cite funding. $(K) 498

c. **Direct Cites.** Provide total direct cite funds expended on contract during FY1993 for this functional support area - life cycle work area. $(K) 0

R

Technical Center Site	NAVAL MEDICAL RESEARCH INSTITUTE DETACHMENT LIMA, PERU
Functional Support Area	10.6.4 Medical Research and Combat Casualty Care
Life Cycle Work Area	5. RDT&E Management Support

1. **In-House Work Years.** Provide the number of in-house government employee (civilian and military) work years for FY1993 that were performed in this functional support area - life cycle work area. Workyears are to be consistent with those used in the preparation of inputs to the President's budget. 3 WYs

2. **Expenditures.**

a. **In-House Expenditures.** Provide the total in-house cost in FY1993 for this functional support area - life cycle work area. $(K) 629

b. **Out-of-House Expenditures.** Provide the total funds expended during FY1993 for this functional support area - life cycle work area. **Do not** include direct cite funding. $(K) 0

c. **Direct Cites.** Provide total direct cite funds expended on contract during FY1993 for this functional support area - life cycle work area. $(K) 0

TECHNICAL FUNCTIONS
FUNCTIONAL SUPPORT AREA/LIFE CYCLE WORK AREA FORM

Technical Center Site	
Functional Support Area	
Life Cycle Work Area	

Note: An example of a functional support area - life cycle work area is "1. Platform, 1.1 Undersea, - 10. Program Support". N/A.

1. **In-House Work Years.** Provide the number of in-house government employee (civilian and military) work years for FY1993 that were performed in this functional support area - life cycle work area. Workyears are to be consistent with those used in the preparation of inputs to the President's budget. _____WYs

2. **Expenditures.**

a. **In-House Expenditures.** Provide the total in-house cost in FY1993 for this functional support area - life cycle work area. $(K)_____

b. **Out-of-House Expenditures**. Provide the total funds expended during FY1993 for this functional support area - life cycle work area. **Do not** include direct cite funding. $(K)_____

c. **Direct Cites.** Provide total direct cite funds expended on contract during FY1993 for this functional support area - life cycle work area. $(K)_____

Note:
In-House Expenditures - Is comprised of the total obligation authority for direct labor, direct material, direct travel, direct equipment, direct computer support, other direct support services and all overhead.

Out-of-House Expenditures - Is comprised of total obligational authority for direct work (customer funded, mission oriented) performed or to be performed by other than the organizational entity. Out-of-house performers may include other departmental or DoD organizational entities, industrial firms, educational institutions, not-for-profit institutions and private individuals.

TAB A
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UIC: _____

R

TAB B

SPECIAL FACILITIES AND EQUIPMENT

Entire tab revision

13. What is the approximate number of personnel used to operate the facility/equipment?

14. What is the approximate number of personnel needed to maintain the equipment?

15. Provide one 8 1/2 x 11 black and white photo of the facility/equipment.

Technical Center Site: Diving Research Facility

Facility/Equipment Nomenclature of Title: Hyperbaric Research System

1. The Diving Medicine Department is primarily responsible for providing guidance in developing basic and applied biomedical research programs in support of fleet diving operations and in providing the facilities required to support these programs. Additionally, the Diving Medicine Department will provide an environment for keeping assigned scientific and technical personnel informed of changing fleet needs, mission requirements, and technologies which may impact on research endeavors; will ensure that assigned personnel maintain their professional and technical credentials; and encourage individual and accelerated research initiatives. To this end, Diving Biomedical Technology provides hyperbaric operating services to Program Directors including, but not limited to: chamber operators and watchstanders; clinical and therapeutic hyperbaric services; training and certification of hyperbaric chamber operators; guidance in diving systems operations and system maintenance; mechanical, electronic, and civil engineering services; design maintenance, and repair services; and management and ADP support services when required.

2. Fixed (Installed as Class 3 plant property, then changed to Class 2)

3. Man-Rated Chamber Complex - $20,000,000
   Open Research Tank & Environmental Room - $3,000,000
   Treatment Chamber - $1,750,000
   Hydrogen Research Facility (Phase III) - $2,800,000
   Clean Room - $365,000
   Unmanned Research Systems - $450,000

4. Man-Rated Chamber Complex w/support equipment - 485.2 Tons; 248,832 ft
   Open Research Tank & Environmental Room - 68,037 ft
   Treatment Chamber - 27 Tons; 25,200 ft
   Hydrogen Research Facility (Phase III) - 45 Tons; 14,400 ft
   Clean Room - 33,154 ft
   Unmanned Research Systems - 40 Tons; 271,544 ft

5. Emergency Power for all life critical systems, this includes dual power feeders from utility substation, emergency diesel generator (450 Kw), and battery backup for basic life support. Two of

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the seven buildings (53 & 69) have independent ground loops as part of the foundation system to prevent electrical hazards which could result in electric shock, oxygen fires or hydrogen fires. One building (53) has steam supply to support the heating load of the Man-Rated Chamber Complex.

6. All chamber systems require special foundation for weight as well as a "floating slab" design for independent support of equipment to be isolated from piping, this design prevents vibration transmission through piping systems. The Man-Rated Chamber Complex foundation is designed on a center support floating structure to compensate for changes in weight and size as the pressure vessels are pressurized and de-pressurized. support piping systems are stainless steel, copper and monel for oxygen, breathing gas and high pressure gases. All research chambers, manned and unmanned, are manufactured from high yield, pressure vessel quality steel.

7. Heating, ventilation and air conditioning (HVAC) in all research areas, all laboratory areas must have single pass ventilation, HVAC must be sized for heat loads of research and support equipment. Certain areas require humidity control computers and research related equipment.

8. The facility is comprised of the aforementioned major research systems, these are supported by approximately 135 personnel housed in seven plus buildings. To relocate all or part of this facility could be accomplished at an approximate cost that would take about two years to recover in personnel savings, but only if relocation was to Coastal Systems Station Campus, Panama City, Florida. The facility is the only laboratory in existence dedicated to medical and physiological research in support of Navy's diving program and is one of the busiest hyperbaric research facilities in the world.

9. The facility was constructed under a Military Construction project that was completed in 1980. Other ancillary support facilities have been added as mission requirements expanded. The open research tank and environmental room were constructed as a research capability integral with the building. The building was constructed on specially designed foundations to support the loading of the open tank.

10. Functional support areas include:
   1.1 Undersea Platforms
   2.14 Explosive Ordnance Disposal
   4.2 Coastal/Special Warfare Support
   10.4 Diving, Salvage and Ocean Engineering

11. The facility has produced an average of 456 manned research dives per year, ranging from 5 to 1000 feet seawater (FSW). The facility has also conducted an annual average of 520 unmanned research dives ranging from 25 FSW to 2250 FSW.

12. Utilization varies with requirements for specific research protocols, but it is anticipated that an average annual utilization similar to the utilization experienced over the previous 5 years is an

TAB B
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accurate estimate.

13. Total of 135 personnel to operate and conduct research.

14. Total of 80 personnel, including 50 Navy Divers, to support and maintain the Hyperbaric Research Systems.

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R

SPECIAL FACILITIES AND EQUIPMENT
FACILITIES/EQUIPMENT CAPABILITY FORM

Technical Center Site	NAVAL MEDICAL RESEARCH INSTITUTE
Facility/Equipment Nomenclature or Title	**Hemoglobin Production Facility**

1. Primary Purpose: This is a pilot scale production facility for the preparation of 20-30 Liters of hemoglobin solution from outdated human red blood cells. This solution is important in the development of hemoglobin-based red blood cell substitutes.

2. The Hemoglobin production facility is a fixed facility.

3. Replacement value of the facility/equipment:

   facility = modification to existing laboratory facility at 1413 Research Blvd. to create a 1:10,000 cleanroom facility exceeded $500.000.
   equipment = $174,442

4. Gross wt & cube

   wt =
   cube = 26,208 cu ft (104x28x9)

5. Special utility requirements:

   (3) 208/230 volt wall mounted motor drives
   (2) 250 volt 30 amp 3 phase
   125/240 volt 30 amp
   240 volt 100 amp 3 phase
   118 volt 1.1 amp
   480 volt 41 amp 3 phase
   230 volt 7.5 amp 3 phase
   "clean" & "house" steam
   Pyrogen free water supply
   Chilled water supply

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Clean Room power requirements

6. Special budget requirements: 1:10,000 cleanroom facility

7. Environment control requirements:

Temp: 70 deg F +/- 1
Humidity: 30% +/- 5

8. Feasibility of movement: This facility was recently moved from LAIR, Presidio SF, CA to 1413
Research Blvd., Rockville, MD as a BRAC requirement. This has resulted in a 1 year research delay both inhouse and to outside agencies having collaborative research efforts with us.

9. The Hemoglobin facility was originally constructed at LAIR, Presidio SF, CA in 1991. It was disassembled as relocated to MD in January 1994.

10. Functional support areas: Basic Medical Research

11. Historical utilization average:

FY89: 600,000 kwatts
FY90: 600,000 Kwatts
FY91: 600,000 Kwatts
FY92: 600,000 Kwatts
FY93: 600,000 Kwatts

12. Projected utilization data to FY97:

13. Personnel requirements: 5 people (Supervising Engineer, Team Leader, Data Manager, Buffer Prep Technician, Blood Technician)

14. Maintenance Personnel requirements: all maintenance is performed by contract service from equipment manufacturers.

15. Photo: black & white photo is unavailable at this time.

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Page ___ of ___
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Entire Tab revised

TAB B

SPECIAL FACILITIES AND EQUIPMENT

FACILITIES/EQUIPMENT CAPABILITY FORM

SPECIAL FACILITIES AND EQUIPMENT
FACILITIES/EQUIPMENT CAPABILITY FORM

Technical Center Site	
Facility/Equipment Nomenclature or Title	

1. State the primary purpose(s) of the facility/equipment. Information follows after #15.

2. Indicate whether the facility/equipment is portable, moveable or fixed as defined by paragraph 6, page 12 of this data call.

3. Provide the replacement value of the facility/equipment. Report the facility/equipment cost separate from any building and utilities that may be integral to the facility/equipment.

4. Provide the gross weight and cube of the facility/equipment.

5. Indicate any "special" utility support required by this facility/equipment other than normal electrical power.

6. Indicate any special budget requirements for the facility/equipment (i.e., special foundations, non-ferrous materials, shielding, hardening, etc.).

7. State any environmental control requirements for the facility/equipment (i.e., temperature, humidity, air scrubbing).

8. Indicate if this facility/equipment would be extremely difficult or impossible to replicate or relocate at another site and the impact to the Department of the Navy if this facility/equipment were lost. Consider existing Government-wide and commercial capabilities as the replication and impact statements are formulated.

9. Indicate how and when the facility/equipment was transported and or constructed at the site.

10. List the functional support areas (previously provided in Tab A) that this facility/equipment support. Refer to Appendix A for the list of functional support areas.

11. Provide the historical utilization average for the past five fiscal years (1989-1993). Define the unit of measure used.

12. Provide the projected utilization data out to FY1997.

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Page ___ of ___
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1. Primary Purpose: This is a pilot scale production facility for the preparation of 20-30 Liters of hemoglobin solution from outdated human red blood cells. This solution is important in the development of hemoglobin-based red blood cell substitutes.

2. The Hemoglobin production facility is a fixed facility.

3. Replacement value of the facility/equipment:

   facility = modification to existing laboratory facility at 1413 Research Blvd. to create a 1:10,000 cleanroom facility exceeded $500.000.
   equipment = $174,442

4. Gross wt & cube

   wt =
   cube = 26,208 cu ft (104x28x9)

5. Special utility requirements:

   (3) 208/230 volt wall mounted motor drives
   (2) 250 volt 30 amp 3 phase
   125/240 volt 30 amp
   240 volt 100 amp 3 phase
   118 volt 1.1 amp
   480 volt 41 amp 3 phase
   230 volt 7.5 amp 3 phase
   "clean" & "house" steam
   Pyrogen free water supply
   Chilled water supply
   Clean Room power requirements

6. Special budget requirements: 1:10,000 cleanroom facility

7. Environment control requirements:

   Temp: 70 deg F +/- 1
   Humidity: 30% +/- 5

8. Feasibility of movement: This facility was recently moved from LAIR, Presidio SF, CA to 1413 Research Blvd., Rockville, MD as a BRAC requirement. This has resulted in a 1 year research delay both inhouse and to outside agencies having collaborative research efforts with us.

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9. The Hemoglobin facility was originally constructed at LAIR, Presidio SF, CA in 1991. It was disassembled as relocated to MD in January 1994.

10. Functional support areas: Basic Medical Research

11. Historical utilization average:

FY89: 600,000 kwatts
FY90: 600,000 Kwatts
FY91: 600,000 Kwatts
FY92: 600,000 Kwatts
FY93: 600,000 Kwatts

12. Projected utilization data to FY97:

13. Personnel requirements: 5 people (Supervising Engineer, Team Leader, Data Manager, Buffer Prep Technician, Blood Technician)

14. Maintenance Personnel requirements: all maintenance is performed by contract service from equipment manufacturers.

15. Photo: black & white photo is unavailable at this time.

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TAB C

RANGE RESOURCES

RANGE CAPABILITY FORM

RANGE RESOURCES
RANGE CAPABILITY FORM

Technical Center Site	
Range Nomenclature or Title	

1. List all the ranges that your activity maintains and operates. Provide the following information on each range: We do not operate any ranges.

a. A brief statement of what the range is used for.

b. Geographic location of the range.

c. Distance from the range to the activity's headquarters · facility (main site).

d. Range size in square miles.

e. Scheduling authority.

f. Air space available/restrictions.

g. Maximum water depth available/restrictions.

h. Instrumentation capability.

i. Accuracy of tracking.

j. Data collection/replay capability.

k. What are the maximum hours per year that this range is available to support activities? Provide the actual hours that the range was up and capable of providing services. Do not count "down time" due to maintenance, reconfiguration, or administrative activities (i.e., Holiday shutdowns).

l. What were the actual hours this range was utilized per year for the last five years (FYs 1989-1993)?

m. What were the actual hours that this range was utilized in FY1993?

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n. Who are the customers of the range?

o. Of the actual hours utilized what percentage of utilization time was provided to which customers?

p. Provide a sketch, drawing or map of the range.

2. Are any of your ranges part of the DoD Major Range and Test Facility Base (MRTFB)? (yes/no) If yes, which ones?

3. Are there any limiting (current or future) environmental and/or encroachment characteristics that are associated with this range.

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APPENDIX A

I. FUNCTIONAL SUPPORT AREAS

1. PLATFORMS
   - 1.1 Undersea
   - 1.2 Aircraft
   - 1.3 Surface Ship
   - 1.4 Space Satellites
   - 1.5 Ground Vehicles

2. WEAPONS SYSTEMS
   - 2.1 Gun Systems
   - 2.2 Guided Missiles
   - 2.3 Free Fall Weapons and Rockets
   - 2.4 Torpedoes
   - 2.5 Mines
   - 2.6 Directed Energy Systems
   - 2.7 Explosives
   - 2.8 Launchers
   - 2.9 Fire Control
   - 2.10 Weapons Data Links
   - 2.11 Weapons Fuzing
   - 2.12 Weapons Propulsion
   - 2.13 Other Ordnance
   - 2.14 Explosive Ordnance Disposal

3. COMBAT SYSTEM INTEGRATION
   - 3.1 Subsurface
   - 3.2 Air
   - 3.3 Surface
   - 3.4 Multiplatform

4. SPECIAL OPERATIONS SUPPORT
   - 4.1 Landing Force Equipment and Systems
   - 4.2 Coastal/Special Warfare Support

5. SENSORS & SURVEILLANCE SYSTEMS
   - 5.1 Sonar Systems
   - 5.2 Radar Systems
   - 5.3 Special Sensors
   - 5.4 Space Sensor/Surveillance Systems
   - 5.5 Ocean Surveillance

6. NAVIGATION
   - 6.1 Submarine Navigation Systems
   - 6.2 Aircraft Navigation Systems
   - 6.3 Surface Ship Navigation Systems
   - 6.4 Weapons Navigation Systems
   - 6.5 Satellite Navigation Systems

7. COMMAND, CONTROL, COMMUNICATIONS AND INTELLIGENCE (C^3I)
   - 7.1 Submarine
   - 7.2 Airborne
   - 7.3 Shipboard
   - 7.4 Land-Based
   - 7.5 Space Communications Systems
   - 7.6 Non-Tactical Data Systems
   - 7.7 Air Traffic Control Systems
   - 7.8 Intelligence Information Systems

8. DEFENSE SYSTEMS
   - 8.1 Ballistic Missile Defense
   - 8.2 Countermeasures (CM)
   - 8.3 Electronic Warfare (EW) Systems

9. STRATEGIC PROGRAMS
   - 9.1 Navy Strategic Systems
   - 9.2 Nuclear Weapons and Effects

10. GENERAL MISSION SUPPORT
   - 10.1 Personnel and Training
     - 10.1.1 Submarine-Related Training Systems
     - 10.1.2 Aircraft-Related Training Systems
     - 10.1.3 Surface Ship-Related Training Systems
     - 10.1.4 Weapons-Related Training Systems
     - 10.1.5 Human Resources Research and Development
   - 10.2 Logistics Planning and Implementation
   - 10.3 Facilities Engineering
   - 10.4 Diving, Salvage and Ocean Engineering
   - 10.5 Environmental Description, Prediction, and Effects
   - 10.6 Crew Equipment and Life Support
     - 10.6.1 Submarine
     - 10.6.2 Aircraft
     - 10.6.3 Surface Ship
     - 10.6.4 Medical Research and Combat Casualty Care
     - 10.6.5 Clothing and Textiles
   - 10.7 Major Range Development and Operation
   - 10.8 Other Subsidiary Systems or Components
   - 10.9 Activity Mission and Function Support

11. GENERIC TECHNOLOGY BASE. [Includes basic research and exploratory development (Budget Categories 6.1 & 6.2) projects that do not fit under the more warfare-focused functional support areas.]
   - 11.1 Computers.
   - 11.2 Software.
   - 11.3 Communications Networking.
   - 11.4 Electronic Devices.
   - 11.5 Materials and Processes.
   - 11.6 Energy Storage.
   - 11.7 Propulsion and Energy Conversion.
   - 11.8 Design Automation.
   - 11.9 Human-System Interfaces.
   - 11.10 Other Technology Base Programs.

II. LIFE-CYCLE WORK AREAS

RDT&E

1. BASIC RESEARCH
2. EXPLORATORY DEVELOPMENT
3. ADVANCED DEVELOPMENT
4. ENGINEERING AND MANUFACTURING DEVELOPMENT
5. RDT&E MANAGEMENT SUPPORT
6. OPERATIONAL SYSTEMS DEVELOPMENT

ACQUISITION

7. PRODUCTION
8. ACCEPTANCE TESTING
9. MODERNIZATION
10. PROGRAM SUPPORT

LIFE -TIME SUPPORT

11. MAINTENANCE
12. REPAIR
13. TESTING
14. IN-SERVICE ENGINEERING
15. PROGRAM SUPPORT
16. RETIREMENT

GENERAL

17. TRAINING/OPERATIONAL SUPPORT
18. SIMULATION, MODELING AND ANALYSIS

APPENDIX B

I. FUNCTIONAL SUPPORT AREA DEFINITIONS

1. PLATFORMS. Those self-propelled, boosted or towed conveyances used for the strategic and tactical deployment of forces, weapons, materials and supplies in support of naval warfare. Projects within this area are limited to those in which the principal objective is to provide technological wherewithal to develop Navy aerospace craft, ships, submarines, boats, and amphibians.

1.1 *Undersea.* Self-propelled, boosted, or towed conveyances for transporting a burden under the sea. The vehicle package includes the design, structures, materials, non-nuclear propulsion, power and auxiliary equipment, transmissions and propulsors, fuels and lubricants, energy conservation and pollution abatement equipment, control systems, and silencing inherent in its construction and operation, but excluding mission oriented systems. Included are submarines and other submersibles including their application as unmanned autonomous vehicles (UAV) and targets.

1.2 *Aircraft.* Self-propelled, boosted, or towed conveyances for transporting a burden through the air. The vehicle package includes the design, structures, materials, non-nuclear propulsion, power and auxiliary equipment, transmissions and propulsors, fuels and control systems and silencing inherent in its construction and operation, but excluding mission oriented systems. Included are all air vehicles including their application as UAVs and targets.

1.3 *Surface Ship.* Self-propelled, boosted, or towed conveyances for transporting a burden on land or sea. The vehicle package includes the design, structures, materials, non-nuclear propulsion, power and auxiliary equipment, transmissions and propulsors, fuels and lubricants, energy conservation and pollution abatement equipment, control systems, and silencing inherent in its construction and operation, but excluding mission oriented systems. Included are ships and craft including their application as UAVs and targets.

1.4 *Space Satellites.* A device or spacecraft in orbit. The vehicle package includes the design, structures, materials, non-nuclear propulsion, power and auxiliary equipment, and control systems, inherent in its construction and operation.

1.5 *Ground Vehicles.* Self-propelled, boosted, or towed conveyances for transporting a burden on land. The vehicle package includes the design, structures, materials, non-nuclear propulsion, power and auxiliary equipment, transmissions and propulsors, fuels and lubricants, energy conservation and pollution abatement equipment, control systems, and silencing inherent in its construction and operation, but excluding mission oriented systems.

2. WEAPONS SYSTEMS. A system that provides the capability to defeat naval and military targets by destructive means. Included are counter-countermeasures and other design features to reduce the susceptibility of the weapon to counter actions, but excluded are those projects in which the principal objective is to counter a weapons system or those efforts to make a system (other than weapons) less vulnerable to enemy weapons.

2.1 *Gun Systems.* Ordnance which fires projectiles; includes related ammunition (guided projectiles are included in "guided missiles". Included are gun systems aboard aircraft and ships, and gun systems used by personnel.

2.2 *Guided Missiles.* Weapons, either self-propelled, (i.e., reaction launched) or impulse driven (i.e., gun/tube impulse launched) capable of homing on, or following a beam or command signals through the air to a target (includes guided projectiles). Included are missiles that are launched by submarine, aircraft, and ship.

2.3 *Free Fall Weapons and Rockets.* Free fall weapons are those air-delivered weapons, including components and subsystems, which follow a ballistic trajectory after gravity launch without any guidance other than that from the initial orientation and velocity of the launching aircraft. A rocket is a self-propelled airborne vehicle whose trajectory or course, while in flight, cannot be controlled.

2.4 *Torpedoes*. Self-propelled, guided or unguided underwater weapons. Included are torpedoes launched by submarine, aircraft, and ship.

2.5 *Mines*. Self-activating standoff or contact explosive devices that are designed to destroy or damage ground vehicles, boats, ships, or aircraft, or designed to wound, kill, or otherwise incapacitate personnel.

2.6 *Directed Energy Systems*. Devices and techniques for generating and focusing high-intensity beams of electromagnetic energy or charged particles upon targets with lethal effects.

2.7 *Explosives*. Metastable compounds which can rapidly release large quantities of energy mostly in the form of hot, high-pressure gases. Explosives are used in naval munitions such as mines, torpedoes, missiles, etc., and also in other Navy products such as aircraft escape systems, fuse trains, etc.

2.8 *Launchers*. That group of devices, components, or subsystems needed to support, hold, and launch expendable weapons, countermeasure devices, or other stores; the control systems for managing these systems and the stores they carry.

2.9 *Fire Control*. Those platform-based systems which provide data for and/or control the launch platform/weapon/weapon-target interaction in all phases required by a weapons system (e.g., acquisition, track, commit-to-fire-pre-launch, post-launch, mid-course, terminal intercept, and assessment). Included are systems that are based undersea, aboard aircraft, shipboard, and on land.

2.10 *Weapons Data Links*. Efforts include the data links that are part of the weapon's command, control and communications systems.

2.11 *Weapons Fuzing*. Efforts leading to the design of systems to sense a target or the result of other prescribed conditions such as time, barometric pressure, command, etc., and initiate a train of fire. Safing and arming are primary functions performed by a fuse to preclude initiation of the ammunition before the desired position or time.

2.12 *Weapons Propulsion*. Included are propellants, subsystems and systems that comprise the means by which a weapons system moves through the air or sea.

2.13 *Other Ordnance*. Includes efforts that do not fit in the above categories (e.g., pyrotechnics, gas generators, CAD/PAD/AEPS).

2.14 *Explosive Ordnance Disposal*. Efforts relating to the technical support of explosive ordnance disposal technology and training.

3. COMBAT SYSTEM INTEGRATION. That effort required to introduce a new system into the operating forces. It involves the integration and evaluation of a new hardware or software subsystem installed in a Navy platform. It includes the mating, installation, and operational support of the resulting higher level system to ensure optimum operating performance.

3.1 *Subsurface*. The integration and evaluation of the various hardware and software subsystems that make up a higher level system, and the mating, installation, and operational support of this higher level system, including its operational software and training systems into undersea platforms.

3.2 *Air*. The integration and evaluation of the various hardware and software subsystems that make up a higher level system, and the mating, installation, and operational support of this higher level system, including its operational software and training systems into air platforms.

3.3 *Surface*. The integration and evaluation of the various hardware and software subsystems that make up a higher level system, and the mating, installation, and operational support of this higher level system, including its operational software and

training systems into surface platforms.

3.4 *Multiplatform*. The integration of multiplatform hardware and software subsystems to make up a higher level system, including the mating, installation, and operational support (including training systems) of this higher level system.

4. SPECIAL OPERATIONS SUPPORT. Those efforts which are in support of amphibious landing, Marine Corps operations, special warfare and other unique operations. It includes weapons, countermeasures, surveillance and a command support which are developed specifically for the projection of forces ashore and that do not have an application by the Navy general forces in the role of sea control.

4.1 *Landing Force Equipment and Systems*. Involved is that RDT&E effort which is not functionally a part of the amphibious platform. Specifically, this includes reconnaissance of amphibious objective areas, environmental support of amphibious operations, amphibious logistics and the integration of the amphibious and Marine Corps systems required to land amphibious forces on a hostile shore and establish a beachhead. (Contingency facilities in support of forces ashore are included in "facilities".)

4.2 *Coastal/Special Warfare Support*. Techniques and systems required to defend coastal, inshore and harbor facilities as well as those needed to conduct operations such as reconnaissance, deception, coastal or offshore interdiction and assault, counterinsurgency, intelligence gathering, remote sensor operation and waterborne intrusion detection. Special warfare systems include systems, techniques, and concepts utilized by specifically cross-trained personnel in unconventional warfare and coastal/riverine operations.

5. SENSORS & SURVEILLANCE SYSTEMS. Those systems used to systematically observe air, space, surface and subsurface areas to detect, classify, localize and identify real or potential military targets. Excluded are those projects in which the principal objective is navigation, weapon fire control or broadbased investigation of the properties of the media or the propagation of energy therein.

5.1 *Sonar Systems*. Those sonar systems and devices used to conduct search, reconnaissance, and surveillance operations to detect, classify, locate, and/or track targets. Included are those systems and devices that are mobile aboard undersea, air, and surface platforms, and those that are fixed.

5.2 *Radar Systems*. Those radar systems and devices used to conduct search, reconnaissance, or surveillance operations to detect, classify, locate, and/or track targets. Included are those systems and devices that are mobile aboard undersea, air, and surface platforms, and those that are fixed.

5.3 *Special Sensors*. Those systems and devices which utilize unique phenomena or methods or combinations of methods to conduct search, reconnaissance, or surveillance operations to detect, classify, locate, and/or track targets. Included are active sensors, passive sensors (e.g., thermal imagers, low light level TV, and infrared search and track systems), and the associated signal and image processing.

5.4 *Space Sensor/Surveillance Systems*. Those devices and systems in Earth orbit that are used to conduct search, reconnaissance, or surveillance operations to detect, classify, locate and/or track targets.

5.5 *Ocean Surveillance*. Systems and equipment for systematic observation of ocean areas for identification and localization of ships, submarines, and aircraft from fixed and mobile platforms including operational software development, and integration of multi-sensor, coordinated detection data and its display at appropriate sites.

6. NAVIGATION. Those systems which utilize electromagnetic, acoustic, or inertial means to guide or navigate surface, subsurface, or aerospace platforms. Included are those systems deployed aboard submarines, aircraft, surface ships and satellites, as well as those used in weapons systems.

6.1 *Submarine Navigation Systems*. Navigation systems deployed aboard submarines, or other undersea vehicles.

6.2 *Aircraft Navigation Systems.* Navigation systems deployed aboard aircraft.

6.3 *Surface Ship Navigation Systems.* Navigation systems deployed aboard surface ships.

6.4 *Weapons Navigation Systems.* Navigation systems installed within weapon systems, such as guided missiles.

6.5 *Satellite Navigation Systems.* Navigation systems deployed aboard satellites.

7. COMMAND, CONTROL, COMMUNICATIONS AND INTELLIGENCE (C^3I). The acquisition, processing and dissemination of information required to plan, direct, and control operations. Included are those projects in command and control, communications and intelligence. Excluded are surveillance systems, and guidance and control of vehicles and weapons. These C^3 systems may be internal or external to submarine, airborne, surface, and land-based platforms.

7.1 *Submarine.* C3 systems deployed aboard submarines, or other undersea vehicles.

7.2 *Airborne.* C3 systems deployed aboard aircraft.

7.3 *Shipboard.* C3 systems deployed aboard surface ships.

7.4 *Land-Based.* C3 systems deployed at shore facilities.

7.5 *Space Communications.* Communications systems in Earth orbit used to convey information.

7.6 *Non-Tactical Data Systems.* Data systems utilized aboard the Navy's operating forces and at shore sites that support ship, submarine and aircraft maintenance, configuration and asset management, supply, inventory, finance, medical, dental, manpower management, administration, food services (ship's mess), and resale operations (ship's stores).

7.7 *Air Traffic Control Systems.* Systems used to promote the safe, orderly, and expeditious movement of air traffic.

7.8 *Intelligence Information Systems.* The systems necessary to conduct the naval warfare task of intelligence. This task involves the assessment and management of information obtained via surveillance, reconnaissance, and other means to produce timely indications and warning, location, identification, intentions, technical capabilities, and tactics of potential enemies and other countries of interest.

8. DEFENSE SYSTEMS. Those systems that are principally designed to defeat a particular weapon system; those systems that are designed to reduce the effectiveness of an enemy's surveillance, communications, navigation and command and control; as well as those efforts directed toward gathering information on the emissions of enemy systems. It does not include those projects in which the principal objective is to incorporate design features in vehicles, surveillance, communication, navigation and other support systems which reduce their vulnerability to enemy action. It also does not include chemical/biological defense for personnel.

8.1 *Ballistic Missile Defense.* Systems designed to protect civilian population centers, military forces, and territory from ballistic missile attack.

8.2 *Countermeasures (CM).* Those systems that are principally designed to defeat a particular weapon system; reduce the effectiveness of an enemy's surveillance, communications, navigation and command and control; as well as gather information on the emissions of enemy systems. Included are those projects to develop systems deployed aboard submarine, aircraft, and surface ship, and those for countering enemy mine warfare through the destruction or neutralization of minefields.

8.3 *Electronic Warfare (EW) Systems.* Those systems, techniques, and devices utilized to determine, exploit, reduce, or prevent hostile use of the electromagnetic spectrum. Included are those projects to develop systems deployed aboard

submarine, aircraft, and surface ship, as well as those to develop EW simulators.

9. STRATEGIC PROGRAMS. Programs conducted to support the deployment and use of the Navy's strategic deterrence force, as well as those programs conducted on nuclear weapons and effects.

9.1 *Navy Strategic Systems*. Those ships and weapon systems, subsystems, devices, techniques, trainers and facilities required specifically for the deployment and use of the Navy's strategic deterrence force.

9.2 *Nuclear Weapons and Effects*. Nuclear weapons effects and countermeasures, including thermal and nuclear radiation effects and the hardening of components and of weapons systems both nuclear and non-nuclear.

10. GENERAL MISSION SUPPORT. Those major areas of support required by Navy general forces that are not included under platforms, weapons systems, combat system integration, special operations support, sensors and surveillance systems, navigation, C^3I, defense systems, strategic programs, and technology base programs.

10.1 *Personnel and Training*. Human resources research and development for the areas of manpower, personnel, education, and training and its support and service functions for human factors effort in system design, development and acquisition. Included are those systems related to submarine, aircraft, surface ship and weapons training, as well as human resources research.

10.1.1 Submarine-Related Training Systems
10.1.2 Aircraft-Related Training Systems
10.1.3 Surface Ship-Related Training Systems
10.1.4 Weapons-Related Training Systems
10.1.5 Human Resources Research and Development

10.2 *Logistics Planning and Implementation*. Projects for those aspects of military operations which deal with the movement, maintenance, supply, and support of Naval forces afloat and ashore, including underway replenishment, warehousing and mobile logistics maintenance and repair activities; material acquisition, control, handling, distribution and disposal processes; and logistics planning, control, and information processing functions.

10.3 *Facilities Engineering*. Products for (a) ocean facilities including the siting, design, construction/implant, and maintenance of facilities attached to the sea floor such as cable structures, pipelines, communications/power cables and Fleet moorings; (b) contingency facilities and equipment to support Navy and Marine Corps forces ashore in amphibious objective areas and at advanced naval bases; (c) permanent shore
facilities such as buildings, piers, drydocks, airfields, POL and weapons storage, and utilities; (d) energy systems ashore including conservation, synthetic fuels, energy self-sufficiency; and (e) environmental protection systems ashore such as industrial wastewater treatment plants, air and noise pollution control devices, and solid waste management systems.

10.4 *Diving, Salvage and Ocean Engineering*. Those support systems and equipment that are required by the Navy in the performance of ocean bottom search, diving, rescue, recovery, salvage operations, and siting, design, construction/implantment, inspection, maintenance and recovery of underwater facilities and associated systems.

10.5 *Environmental Description, Prediction, and Effects*. The study, modeling, and simulation of atmospheric, oceanic, terrestrial, and space environmental effects, both natural and man-made, including the interaction of a weapon system with its operating medium and man-produced phenomena such as obscurants found on the battlefield.

10.6 *Crew Equipment and Life Support*. Techniques, equipment and devices to provide protection for and support of Navy operating personnel, including chemical/biological defense. Included are systems aboard submarines, aircraft, and surface ships, as well as medical research and combat casualty care, and clothing and textiles.

10.6.1 Submarine

10.6.2 Aircraft
10.6.3 Surface Ship
10.6.4 Medical Research and Combat Casualty Care
10.6.5 Clothing and Textiles

10.7 *Major Range Development and Operation*. The design, equipping, and operation of ranges offering diverse and accurate measurement and reconstruction capabilities to establish performance profile data on newly designed, as well as existing, naval vehicles and systems operating in a realistic environment.

10.8 *Other Subsidiary Systems or Components*. Subsidiary systems or components that do not fit within the above product areas (e.g., batteries).

10.9 *Activity Mission and Function Support*. Efforts that clearly support the Activity's responsibilities but which cannot be uniquely assigned to a specific functional area.

11. GENERIC TECHNOLOGY BASE. Includes basic research and exploratory development (Budget Categories 6.1 & 6.2) projects that do not fit under the more warfare-focused functional support areas. These areas include computers, software, communications networking, electronic devices, materials and processes, energy storage, propulsion and energy conversion, design automation, human-system interfaces, and other technology base areas.

11.1 *Computers*. High performance computing systems (and their software operating systems) providing orders-of-magnitude improvements in computational and communications capabilities as a result of improvements in hardware, architectural designs, networking, and computational methods.

11.2 *Software*. The tools and techniques that facilitate the timely generation, maintenance, and enhancement of affordable and reliable applications software, including software for distributed systems, data base software, artificial intelligence, and neural nets.

11.3 *Communications Networking*. The timely, reliable, and secure production and worldwide dissemination of information, using shared communications media and common hardware and applications software from originators to DoD consumers, in support of joint-Service mission planning, simulation, rehearsal, and execution.

11.4 *Electronic Devices*. Ultra-small (nanoscale) electronic and optoelectronic devices, combined with electronic packaging and photonics, for high speed computers, data storage modules, communications systems, advanced sensors, signal processing, radar, imaging systems, and automatic control.

11.5 *Materials and Processes*. Development of man-made materials (e.g., composites, electronic and photonic materials, smart materials) for improved structures, higher temperature engines, signature reduction, and electronics, and the synthesis and processing required for their application.

11.6 *Energy Storage*. The safe, compact storage of electrical or chemical energy, including energetic materials for military systems.

11.7 *Propulsion and Energy Conversion*. The efficient conversion of stored energy into usable forms, as in fuel efficient aircraft turbine engines and hypersonic systems.

11.8 *Design Automation*. Computer-aided design, concurrent engineering, simulation, and modeling; including the computational aspects of fluid dynamics, electromagnetics, advanced structures, structural dynamics, and other automated design processes.

11.9 *Human-System Interfaces*. The machine integration and interpretation of data and its presentation in a form convenient to the human operator; displays; human intelligence emulated in computational devices; and simulation and synthetic environments.

11.10 *Other Technology Base Programs*. All technology base programs (Budget Categories 6.1 and 6.2 only) that do not fit into the above warfare-focused functional support areas (#1 - #10), or within the above generic technology base areas (#11.1 - #11.9).

II. LIFE-CYCLE WORK AREA DEFINITIONS

RDT&E

1. **BASIC RESEARCH**. (Budget Category 6.1 only) This area includes scientific study and experimentation to increase knowledge and understanding in the physical, engineering, environmental and life sciences related to long-term national security needs.

2. **EXPLORATORY DEVELOPMENT**. (Budget Category 6.2 only) This area includes efforts to solve specific military problems, short of major development. Exploratory development may vary from fairly fundamental applied research to sophisticated breadboard hardware, study programming and planning efforts.

3. **ADVANCED DEVELOPMENT**. (Budget Category 6.3 only) This area includes efforts on projects which have moved into the development of hardware for test. The prime objective is proof of design concept rather than the development of hardware for service use.

4. **ENGINEERING AND MANUFACTURING DEVELOPMENT**. (Budget Category 6.4 only) This area includes programs in full scale development, but which have not received approval for production or had production funds included in the DoD budget submission for the budget or subsequent fiscal year.

5. **RDT&E MANAGEMENT SUPPORT**. (Budget Category 6.5 only) This area includes support of installations or operations required for general research and development use. Included would be test ranges, military construction, maintenance support of laboratories, operations and maintenance of test aircraft and ships, and studies and analyses in support of the R&D program.

6. **OPERATIONAL SYSTEMS DEVELOPMENT**. (Budget Category 6.6 only) This area includes projects still in full-scale development, but which have received approval for production through Defense Acquisition Board or other action, or for which production funds have been included in the DoD budget submission for the budget or subsequent fiscal year. All work in this area is identified by major line item projects that appear as "RDT&E Costs of Weapon System Elements" in other programs.

ACQUISITION

7. **PRODUCTION.** During this phase, the system, including training equipment, spares, etc., is produced for operational use.

8. **ACCEPTANCE TESTING.** This phase involves the test and evaluation of production items to demonstrate that the items procured fulfill the requirements and specifications of the procuring contract on agreement

9. **MODERNIZATION.** This phase of the work involves the modification, upgrade, or improvement of a system or subsystem.

10. **PROGRAM SUPPORT.** This phase involves al work not fully under the category of production (#7), acceptance testing (#8), or modernization (#9), that occurs during the acquisition of new systems or subsystems.

LIFE-TIME SUPPORT

11. **MAINTENANCE.** This phase of work involves the maintenance of systems and subsystems.

12. **REPAIR.** This phase of work involves the repair of systems or subsystems.

13. **TESTING.** This phase is typically funded from Budget Category 6.5 or procurement program elements. Work in this area supports developmental and/or operational testing and focuses on the evaluation od system safety, technical performance, environmental (climatic, electromagnetic, etc.) effects, sustainability and operational suitability, maturity of production processes, and compliance with the specifications and quality standards.

14. **IN-SERVICE ENGINEERING.** This phase is typically funded from Budget Category 6.6 or operations and maintenance (O&M) program elements. In-service engineering tends to focus on system peculiar capabilities in order to conduct check-out of the system and/or subsystem after they have undergone a modification, upgrade or improvement.

15. **PROGRAM SUPPORT.** This phase involves all work ant falling under the categories of maintenance (#11), repair (#12), testing (#13), in-service engineering (#14) and retirement (#16) that occur during the life-time support of new systems and/or subsystems.

16. **RETIREMENT.** This phase includes the retirement and disposal of obsolete systems and/or subsystems.

GENERAL

17. **TRAINING/OPERATIONAL SUPPORT.** Efforts in this area, involve the training of operational forces in the use of new techniques, equipment and systems, tactics or doctrine. Training and operational support is typically funded from O&M program elements.

18. **SIMULATION, MODELING AND ANALYSIS.** This phase of work provides a simulated test environment or representation of systems, components and platforms. This work can be carried out throughout the development and test process as analytical tools, as well as tools to drive or control electronic and other environmental stimuli.

Appendix B

BRAC-95 CERTIFICATION

Reference: SECNAVNOTE 11000 of 08 December 1993

In accordance with policy set forth by the Secretary of the Navy, personnel of the Department of the Navy, uniformed and civilian, who provide information for use in the BRAC-95 process are required to provide a signed certification that states "I certify that the information contained herein is accurate and complete to the best of my knowledge and belief."

The signing of this certification constitutes a representation that the certifying official has reviewed the information and either (1) personally vouches for its accuracy and completeness or (2) has possession of, and is relying upon, a certification executed by a competent subordinate.

Each individual in your activity generating information for the BRAC-95 process must certify that information. Enclosure (1) is provided for individual certifications and may be duplicated as necessary. You are directed to maintain those certifications at your activity for audit purposes. For purposes of this certification sheet, the commander of the activity will begin the certification process and each reporting senior in the Chain of Command reviewing the information will also sign this certification sheet. This sheet must remain attached to this package and be forwarded up the Chain of Command. Copies must be retained by each level in the Chain of Command for audit purposes.

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

ACTIVITY COMMANDER

R. G. WALTER
NAME (Please type or print)

Signature Robert G. Walter
5/6/94

CAPT, DC, USN
Title

Date

NAVAL MEDICAL RESEARCH INSTITUTE
Activity

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

NEXT ECHELON LEVEL (if applicable)

E. T. FLYNN, CAPT, MC, USN
NAME (Please type or print)

E. T. Flynn
Signature

COMMANDING OFFICER
Title

12 May 94
Date

Naval Medical Research and Development Command
Activity

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

NEXT ECHELON LEVEL (if applicable)

NAME (Please type or print)

Signature

Title

Date

Activity

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

MAJOR CLAIMANT LEVEL

RADM R. I. RIDENOUR
NAME (Please type or print)

R. Ridenour
Signature

ACTING CHIEF BUMED
Title

5-16-94
Date

BUREAU OF MEDICINE AND SURGERY
Activity

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

DEPUTY CHIEF OF NAVAL OPERATIONS (LOGISTICS)
DEPUTY CHIEF OF STAFF (INSTALLATIONS & LOGISTICS)

J.B. GREENE, JR
NAME (Please type or print)

J.B. Greene Jr.
Signature

ACTING
Title

2 JUN 94
Date

R

BRAC-95 CERTIFICATION

Reference: SECNAVNOTE 11000 of 8 December 1993

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I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

ACTIVITY COMMANDER

R. G. WALTER, CAPT, DC, USN
NAME (Please type or Print)

R. G. Walter
Signature

Commanding Officer
Title

16 Sept 94
Date

Naval Medical Research Institute
Activity

R

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

NEXT ECHELON LEVEL (if applicable)

T. N. JONES, CAPT, MSC, USN

NAME (Please type or print)

Signature T N Jones

COMMANDING OFFICER

Title

Date 19 Sept 94

NAVAL MEDICAL RESEARCH & DEVELOPMENT COMMAND

Activity

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

NEXT ECHELON LEVEL (if applicable)

NAME (Please type or print)

Signature

Title

Date

Activity

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

MAJOR CLAIMANT LEVEL

D. F. HAGEN, VADM,MC,USN

NAME (Please type or print)

Signature x D F Hagen

CHIEF BUMED/SURGEON GENERAL

Title

Date + 9-19-94

BUREAU OF MEDICINE AND SURGERY

Activity

BUMED
DATA CALL 5 - REVISION
NMRI

R

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

DEPUTY CHIEF OF NAVAL OPERATIONS (LOGISTICS)
DEPUTY CHIEF OF STAFF (INSTALLATIONS & LOGISTICS)

NAME (Please type or print)

W. A. EARNER

Title

Signature

Date 9/21/84