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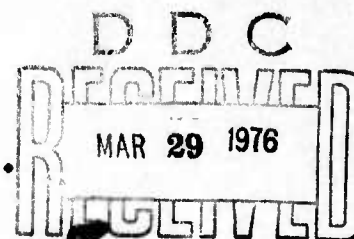
DEPARTMENT OF DEFENSE IN-HOUSE RDT&E ACTIVITIES

ADB009906



30 OCTOBER 1974

Management Analysis Report . . .



Department of the Army

Department of the Navy

Department of the Air Force

AD No. _____
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~~PREPARED FOR INTERNAL DEPARTMENT OF DEFENSE USE ONLY~~

6 DEPARTMENT OF DEFENSE IN-HOUSE ^{2nd} RDT/E ACTIVITIES.

11 VERNAL L./AAMODT

11 30 OCTOBER 1974

12 141 p.

9 Management analysis rept.,

US ARMY MATERIEL COMMAND ✓
5001 Eisenhower Avenue
Alexandria, Virginia 22333 ✓

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Army Materiel Dev. & Readiness Comd.
5001-Eisenhower Avenue
Alex. Va. 22333

039150

FOREWORD

THIS REPORT WAS PREPARED BY THE US ARMY MATERIEL COMMAND AT THE DIRECTION OF THE CHIEF, RESEARCH, DEVELOPMENT AND ACQUISITION, DA; LETTER DAMA-AOA, DATED 19 JUNE 1974, 'TRANSFER OF FUNCTIONS TO THE US ARMY MATERIEL COMMAND'.

EACH IN-HOUSE RDT&E ACTIVITY OF THE DEPARTMENT OF DEFENSE IS DESCRIBED ON ONE PAGE IN THIS COMPILATION. THE DATA FOR 1974 ARE SUMMARIZED IN TABLES PRECEDING THE MAIN TEXT.

THIS EDITION IS THE NINTH OF A SERIES THAT STARTED IN 1966. ALL INFORMATION WAS SUBMITTED ON KEY-PUNCHED CARDS, AND THE REPORT'S PREPARATION WAS THUS ENTIRELY--WITH SOME MANUAL CORRECTIONS OF TYPOGRAPHICAL ERRORS, FISCAL AND MANPOWER DATA, AND CLARIFICATION OF OBSCURE ABBREVIATIONS AND CONTRACTIONS.

ALL CURRENT DOD RDT&E ACTIVITIES ARE LISTED IN THE CONTENTS ALPHABETICALLY WITHIN EACH DEPARTMENT. SOME NEW ORGANIZATIONAL NAMES APPEAR IN THIS ISSUE AND OTHERS HAVE BEEN CHANGED OR DELETED SINCE LAST YEAR; FOR THIS INFORMATION, SEE APPENDIX I.

APPENDIX II CONTAINS THE DEFINITIONS GIVEN IN DOD INSTRUCTION 7700.9 (DEPARTMENT OF THE ARMY LETTER, "RESEARCH AND DEVELOPMENT RESOURCE DATA FOR IN-HOUSE RDT&E ACTIVITIES", DATED 6 AUGUST 1973) AND EMPLOYED AS THE BASIS FOR THESE DATA. APPENDIX III LISTS SELECTED ABBREVIATIONS AND ACRONYMS.

THIS IS THE FIRST REPORT TO BE PUBLISHED BY THE US ARMY MATERIEL COMMAND, NO NEW CHARTS OR TABLES HAVE BEEN ADDED. USERS OF THIS REPORT MAY RESPOND TO THE US ARMY MATERIEL COMMAND SHOULD DATA SHOWN BE INADEQUATE, INCOMPLETE OR UNUSABLE. AN ATTEMPT HAS BEEN MADE TO CONTINUE TO SAME USABILITY STANDARDS AS THOSE OF PREVIOUS ISSUES.

A SINCERE EXPRESSION OF GRATITUDE IS EXTENDED TO MR. WILLIAM A. STRAIN AND HIS ASSOCIATES OF THE US ARMY MANAGEMENT SYSTEMS SUPPORT AGENCY, FOR THEIR PATIENCE, TOLERANCE AND DILLIGENT EFFORTS IN THE ASSEMBLY OF THE RAW COMPUTER DATA INTO A ACCURATE AND LEGIBLE REPORT.

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SUMMARY

DEPARTMENT OF DEFENSE IN-HOUSE RDT&E FACILITIES

PROGRAM DATA FOR FY 1974

TOTAL ANNUAL PROGRAM	(MILLIONS)
TOTAL INHOUSE PROGRAM	4262.701
TOTAL RDT&E PROGRAM	2429.748
TOTAL INHOUSE RDT&E	2702.333
TOTAL ANNUAL OPERATING COST	1589.517
	613.029

PERSONNEL DATA (END OF FY 1974)

PERSONNEL	AUTHORIZED STRENGTH	TOTAL PHD	TOTAL PROFESSIONALS
MILITARY	23599	1091	6857
CIVILIAN	79510	3296	29380
TOTAL	103109	4387	36237

x

PHYSICAL FACILITIES (END OF FY 1974)

ACRES	9492900
SPACE (THOUSANDS OF SQ FT)	
LABORATORY	27908.621
ADMINISTRATIVE	8859.209
OTHER	49971.951
TOTAL	86739.781
COST (MILLIONS)	
REAL PROPERTY	2923.283
EQUIPMENT	2530.036
TOTAL	5453.319

TABLE 1. ARMY ROTEE ACTIVITIES, PROGRAM AND PERSONNEL DATA, FY 1974

INSTALLATION	FUNDING DATA (MILLIONS \$)				PERSONNEL DATA									
	TOTAL	INHOUSE	TOTAL	ROTEE	TOTAL	INHOUSE	TOTAL	PROF	CIV	MIL	PROF	CIV	MIL	PROF
AEROMEDICAL RESEARCH UNIT	2,999	2,999	2,245	2,245	53	40	17	3	21	7				
AIR DEFENSE BOARD	6,145	6,145	2,687	2,687	319	125	0	37	14					
AIR MOBILITY R&D LABORATORY	45,769	16,139	43,875	14,245	40	614	2	27	33	246				
AIRBORNE COMMUNICATIONS & ELECTRONICS BOARD	3,585	3,585	1,366	1,366	211	65	0	2	40	6				
ARCTIC TEST CENTER	5,658	5,658	2,858	2,858	297	26	1	0	71	6				
ARMOR AND ENGINEER BOARD	7,635	7,635	2,653	2,653	379	104	1	0	49	14				
ARMY MATERIAL SYSTEMS ANALYSIS AGENCY	13,988	8,287	12,031	6,830	35	350	6	6	20	250				
ATMOSPHERIC SCIENCES LABORATORY	10,225	7,941	10,036	7,752	440	281	0	13	10	115				
AVIATION SYSTEMS TEST ACTIVITY	4,231	4,143	3,273	3,273	60	103	0	0	29	27				
AVIATION TEST BOARD	9,380	6,774	6,418	3,812	208	135	0	1	40	10				
AVIONICS LABORATORY	18,039	13,658	12,931	9,244	66	817	7	101	52	435				
BALLISTICS RESEARCH LABORATORIES	40,144	24,484	39,481	23,821	7	393	2	43	6	177				
BENET WEAPONS LABORATORY	23,171	14,839	12,295	8,618	42	244	1	29	22	86				
COMBAT SURVEILLANCE & TGT ACQUISITION LABS	31,406	14,700	31,416	14,700	25	319	0	12	23	196				
COMMUNICATIONS A&P LABORATORY	19,151	14,046	17,226	12,121	11	412	2	19	8	266				
CONSTRUCTION ENGINEERING RESEARCH LABORATORY	5,715	3,842	5,157	3,370	5	303	0	52	1	151				
DESERT TEST CENTER (LABS)	19,787	17,119	14,236	12,109	186	754	15	20	60	122				
EDGEMOOD ARSENAL LABORATORIES	41,586	37,168	35,549	31,131	173	898	35	60	94	473				
ELECTRONIC PROVING GROUND	13,352	10,269	6,307	3,774	252	203	1	2	27	58				
ELECTRONIC WARFARE LABORATORY	35,031	13,882	33,761	13,238	49	429	0	5	7	207				
ELECTRONICS TECHNOLOGY AND DEVICES LAB	16,607	11,147	15,846	10,458	5	368	3	37	10	229				
ENGINEER TOPOGRAPHIC LABORATORIES	10,324	6,822	10,056	6,554	20	310	2	21	12	178				
ENGINEER WATERWAYS EXPERIMENT STATION	33,883	27,994	11,614	9,633	55	1368	5	52	48	425				
FIELD ARTILLERY BOARD	6,135	6,125	1,231	1,221	359	47	0	0	68	5				
FRANKFORD ARSENAL LABORATORIES	59,190	52,659	20,382	20,382	28	1648	0	46	24	684				
HARRY DIAMOND LABORATORIES	115,764	30,393	46,614	26,727	9	1576	3	69	8	836				
HUMAN ENGINEERING LABORATORY	4,645	4,340	3,484	3,195	31	128	1	11	15	75				
INFANTRY BOARD	4,229	4,229	1,141	1,141	155	62	0	0	32	5				
INSTITUTE OF DENTAL RESEARCH	1,841	1,841	0,845	0,845	56	26	21	1	29	7				
INSTITUTE OF SURGICAL RESEARCH	3,153	3,153	1,500	1,500	134	80	20	3	142	28				
LETTERMAN ARMY INSTITUTE OF RESEARCH	28,300	16,604	23,376	13,062	15	626	3	67	8	211				
MATERIALS AND MECHANICS RESEARCH CENTER	24,952	24,666	12,638	12,388	57	1038	1	5	25	193				
MATERIEL TESTING DIRECTORATE	3,687	3,687	3,189	3,189	32	81	6	13	22	34				
MEDICAL BIOENGINEERING R&D LABORATORY	10,530	10,530	7,364	7,364	354	220	56	24	66	48				
MEDICAL RESEARCH INST OF INFECTIOUS DISEASES	2,626	2,626	1,416	1,416	104	104	11	9	74	23				
MEDICAL RESEARCH LABORATORY	106,516	46,153	91,143	32,229	40	1219	9	71	32	736				
MISSILE RES., DEV. AND ENGINEERING LAB	110,555	27,914	47,530	20,858	68	1578	0	25	57	500				
MOBILITY EQUIPMENT R&D CENTER	37,401	28,531	22,066	15,704	119	1167	13	97	43	459				
NATICK LABORATORIES	35,286	16,716	35,286	16,716	37	395	1	30	28	196				
NIGHT VISION LABORATORY	82,600	57,500	68,600	44,600	54	2665	0	52	39	1149				
PICATINNY ARSENAL LABORATORIES	10,683	10,507	9,271	9,139	1	686	0	0	0	102				
RED TECHNICAL SUPPORT ACTIVITY	14,761	3,451	14,761	3,451	69	218	2	69	21	124				
RESEARCH INST FOR BEHAVIORAL & SOCIAL SCI	3,964	3,964	3,282	3,282	84	102	20	19	50	41				
RESEARCH INSTITUTE OF ENVIRONMENTAL MEDICINE	26,507	15,997	18,054	9,996	13	703	5	19	13	336				
ROCK ISLAND ARSENAL LABORATORIES	49,414	24,813	24,089	12,786	34	905	1	7	18	388				
TANK-AUTOMOTIVE LABORATORIES	3,512	3,512	2,339	2,339	89	83	0	5	23	15				
TROPIC TEST CENTER	22,231	22,231	13,632	13,632	568	640	190	70	297	214				
WALTER REED ARMY INSTITUTE OF RESEARCH	106,254	82,612	91,009	67,710	841	3143	0	5	306	562				
WHITE SANDS MISSILE RANGE	29,008	22,544	13,511	13,511	326	782	1	0	36	156				
YUMA PROVING GROUND														
TOTALS	1336,449	820,525	926,563	573,316	6830	29167	496	1246	2298	11022				

*

TABLE 2. ARMY ROT&E FACILITIES DATA, FY 1974

INSTALLATION	SPACE AND PROPERTY				COST (MILLIONS \$)	
	ACRES	LABORATORY	ADMIN	OTHER	REAL	PROPERTY EQUIPMENT
AEROMEDICAL RESEARCH UNIT						
AIR DEFENSE BOARD	10	33,900	6,900	10,969	0.432	3.750
AIR MOBILITY R&D LABORATORY	26	36,550	36,646	69,942	1.895	8.901
AIRBORNE COMMUNICATIONS & ELECTRONICS BOARD	108	85,014	43,308	15,584	1.474	5.470
ARCTIC TEST CENTER	27	0.000	50.879	179.991	4.560	3.460
ARMOR AND ENGINEER BOARD	647155	5.100	120.079	129.152	12.176	5.762
ARMY MATERIAL SYSTEMS ANALYSIS AGENCY	6900	6.200	68.068	166.374	1.449	1.849
ATMOSPHERIC SCIENCES LABORATORY	5	13.983	91.244	2.195	2.219	0.634
AVIATION SYSTEMS TEST ACTIVITY	48045	5.600	2.500	3.300	0.000	22.000
AVIATION TEST BOARD	19	4.280	32.830	98.480	3.614	4.575
AVIONICS LABORATORY	1189	2.440	50.584	177.364	2.623	19.286
BALLISTICS RESEARCH LABORATORIES	9	43.500	7.896	0.000	14.900	11.548
BENET WEAPONS LABORATORY	3380	673.000	6.000	3.000	58.263	34.596
COLO REGIONS R&E LABORATORIES	4	167.463	24.600	7.489	2.817	4.761
COMBAT SURVEILLANCE & TGT ACQUISITION LABS	24	17.230	6.168	97.646	4.072	5.282
COMMUNICATIONS ADP LABORATORY	0	114.351	5.075	11.571	0.000	5.000
CONSTRUCTION ENGINEERING RESEARCH LABORATORY	0	37.445	43.360	0.000	0.000	10.300
DESERT TEST CENTER (LABS)	30	74.761	33.759	0.000	3.851	2.388
EDGEWOOD ARSENAL LABORATORIES	840910	192.466	171.764	1550.757	49.551	17.272
ELECTRONIC PROVING GROUND	2000	457.423	89.010	153.390	16.316	13.496
ELECTRONIC WARFARE LABORATORY	42800	0.000	210.249	0.000	2.417	43.158
ENGINEER TECHNOLOGY AND DEVICES LAB	0	139.716	8.023	35.735	7.042	48.733
ENGINEER TOPOGRAPHIC LABORATORIES	0	134.393	5.250	3.046	0.000	13.860
ENGINEER WATERWAYS EXPERIMENT STATION	0	55.899	10.828	3.700	0.000	7.276
FIELD ARTILLERY BOARD	1904	1545.000	312.896	170.723	15.617	28.526
FRANKFORD ARSENAL LABORATORIES	23	26.286	48.948	57.941	3.330	1.839
HARRY DIAMOND LABORATORIES	43	576.641	149.872	292.372	16.813	9.143
HUMAN ENGINEERING LABORATORY	2237	459.585	47.510	81.552	11.874	24.159
INFANTRY BOARD	0	26.500	17.605	28.953	0.709	2.900
INSTITUTE OF DENTAL RESEARCH	4	0.000	46.203	30.838	0.000	0.482
INSTITUTE OF SURGICAL RESEARCH	4	9.325	5.696	6.730	0.758	0.850
LETTERMAN ARMY INSTITUTE OF RESEARCH	1	25.422	0.800	22.408	1.968	1.434
MATERIALS AND MECHANICS RESEARCH CENTER	4	127.997	9.660	67.272	8.931	6.116
MATERIEL TESTING DIRECTORATE	46	389.161	96.018	169.979	14.266	16.416
MEDICAL BIOENGINEERING R&D LABORATORY	23710	686.123	9.540	298.511	16.524	42.356
MEDICAL RESEARCH INST OF INFECTIOUS DISEASES	4	35.500	27.300	38.943	2.905	1.782
MEDICAL RESEARCH LABORATORY	57	93.217	13.819	198.731	17.824	3.147
MISSILE RES., DEV. AND ENGINEERING LAB	20	88.025	5.368	34.734	0.280	2.693
MOBILITY EQUIPMENT R&D CENTER	11000	1168.000	262.000	408.000	25.278	41.000
NATICK LABORATORIES	1060	679.478	110.624	160.538	24.236	31.000
NIGHT VISION LABORATORY	2994	550.562	65.900	412.268	25.366	13.847
PICATINNY ARSENAL LABORATORIES	21	73.261	3.521	67.207	43.961	37.402
R&D TECHNICAL SUPPORT ACTIVITY	5848	595.570	671.657	2613.626	74.536	61.251
RESEARCH INST FOR BEHAVIORAL & SOCIAL SCI	136	17.826	34.599	77.415	8.400	6.937
RESEARCH INSTITUTE OF ENVIRONMENTAL MEDICINE	0	35.564	4.318	9.248	0.098	1.474
ROCK ISLAND ARSENAL LABORATORIES	4	60.421	18.563	28.647	3.663	1.800
TANK-AUTOMOTIVE LABORATORIES	18	123.617	224.732	206.679	3.940	7.957
TROPIC TEST CENTER	125	644.281	0.000	0.000	20.970	10.648
WALTER REED ARMY INSTITUTE OF RESEARCH	18870	12.455	58.244	156.417	1.128	1.762
WHITE SANDS MISSILE RANGE	1177	401.300	47.900	12.220	0.000	16.349
YUMA PROVING GROUND	4458030	1460.547	431.027	2844.790	171.297	159.131
	1078482	0.000	75.635	1244.707	36.006	70.874
TOTALS	7198471	12212.378	3924.975	12461.134	740.359	896.634

TABLE 3. NAVY ROTEE ACTIVITIES, PROGRAM AND PERSONNEL DATA, FY 1974

INSTALLATION	FUNDING DATA (MILLIONS \$)			PERSONNEL DATA									
	TOTAL INHOUSE	TOTAL INHOUSE	TOTAL INHOUSE	TOTAL MIL	TOTAL CIV	PHD MIL	PHD CIV	PROF MIL	PROF CIV	PHD MIL	PHD CIV	PROF MIL	PROF CIV
ENVIRONMENTAL PREDICTION RESEARCH FACILITY	2.503	1.258	2.073	16	31	1	1	2	7				
NATIONAL PARACHUTE TEST RANGE	10.684	9.626	2.244	279	334	4	4	0	18				
NAVAL AEROSPACE MEDICAL CENTER	4.657	4.657	4.152	32	117	13	15	21	48				
NAVAL AIR DEVELOPMENT CENTER	141.354	77.088	80.141	339	2489	5	32	80	1128				
NAVAL AIR ENGINEERING CENTER	83.030	29.622	8.090	20	1699	0	4	16	288				
NAVAL AIR PROPULSION TEST CENTER	19.373	13.090	11.121	9	678	0	1	9	159				
NAVAL AIR TEST CENTER	96.532	81.424	37.100	1541	2516	0	5	219	478				
NAVAL AIR TEST FACILITY (SHIP INSTALLATIONS)	11.696	10.998	1.492	151	362	0	0	6	75				
NAVAL ARCTIC RESEARCH LABORATORY	7.169	0.037	5.731	2	0	0	0	1	0				
NAVAL BIOMEDICAL RESEARCH LABORATORY	2.401	0.706	2.136	12	6	5	0	8	0				
NAVAL BLOOD RESEARCH LABORATORY	0.716	0.716	0.499	15	17	4	0	6	4				
NAVAL CLOTHING AND TEXTILE RESEARCH UNIT	1.569	1.569	0.755	1	60	0	0	0	22				
NAVAL COASTAL SYSTEMS LABORATORY	20.3	16.196	12.099	102	618	3	17	13	267				
NAVAL DENTAL RESEARCH INSTITUTE, NTC	0.725	0.725	0.394	22	17	2	4	4	6				
NAVAL ELECTRONICS LABORATORY CENTER	66.969	44.312	41.658	90	1492	2	68	38	845				
NAVAL EXPLOSIVE ORDNANCE DISPOSAL FACILITY	7.915	5.203	3.173	50	156	0	2	36	41				
NAVAL MEDICAL FIELD RESEARCH LABORATORY	1.133	1.133	0.768	31	42	4	1	7	4				
NAVAL MEDICAL RESEARCH INSTITUTE	8.379	8.379	5.341	209	232	21	34	66	68				
NAVAL MEDICAL RESEARCH UNIT NO. 2	2.296	2.296	1.603	39	9	7	1	24	4				
NAVAL MISSILE CENTER	2.033	1.548	0.700	23	229	4	8	8	30				
NAVAL ORDNANCE LABORATORY	96.306	74.462	46.273	480	1811	3	9	84	738				
NAVAL ORDNANCE MISSILE TEST FACILITY	108.442	65.530	86.555	40	2791	0	171	22	1140				
NAVAL RESEARCH LABORATORY	4.103	3.150	1.203	148	76	0	1	130	5				
NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER	175.354	170.499	152.790	138	3678	2	502	7	1546				
NAVAL SPACE SYSTEMS ACTIVITY	88.983	60.124	63.724	68	2905	0	104	17	1263				
NAVAL SUBMARINE MEDICAL RESEARCH LABORATORY	3.684	0.999	2.257	9	26	0	1	8	18				
NAVAL UNDERSEA CENTER	1.914	1.914	1.449	36	65	8	11	15	30				
NAVAL UNDERWATER SYSTEMS CENTER	80.613	49.309	57.263	264	1656	0	105	14	696				
NAVAL UNIT, FORT DETRICK	133.924	107.515	50.977	148	3238	2	101	41	1474				
NAVAL WEAPONS CENTER	0.233	0.233	0.073	11	1	3	0	5	0				
NAVAL WEAPONS EVALUATION FACILITY	217.767	120.676	106.442	588	4655	1	140	64	1566				
NAVAL WEAPONS LABORATORY	5.305	5.305	0.884	173	109	0	1	34	41				
NAVY MEDICAL NEUROPSYCHIATRIC RESEARCH UNIT	82.577	66.443	42.129	89	2802	1	81	40	1163				
NAVY PERSONNEL RESEARCH & DEVELOPMENT CENTER	1.736	1.736	1.535	11	74	7	10	11	30				
NAVY TOXICOLOGY UNIT, NMHC	10.431	7.302	8.535	26	262	1	61	21	178				
PACIFIC MISSILE RANGE	0.579	0.579	0.412	16	7	2	0	6	2				
U.S. NAVAL MEDICAL RESEARCH UNIT NO. 5	93.604	65.465	68.461	653	2898	1	5	73	530				
	0.000	0.000	0.000	21	56	5	3	7	3				
TOTALS	1597.020	1111.824	916.232	5902	38238	111	1500	1166	13939				

TABLE 4. NAVY ROTGE FACILITIES DATA, FY 1974

TABLE 4. NAVY ROTHS CHILDREN									
INSTALLATION	ACRES	SPACE AND PROPERTY			REAL	PROPERTY	EQUIPMENT		
		LABORATORY	ADMIN	OTHER					
ENVIRONMENTAL PREDICTION RESEARCH FACILITY	0	1,808	5,012	10,440	0.000	0.812	0.000		
NATIONAL PARACHUTE TEST RANGE	232137	6,400	56,670	1142,407	33,633	4,750	2,713		
NAVAL AEROSPACE MEDICAL RESEARCH LABORATORY	0	131,787	29,104	8,893	2,807	39,270	20,464		
NAVAL AIR DEVELOPMENT CENTER	749	847,764	42,747	435,964	33,685	11,951	49,695		
NAVAL AIR ENGINEERING CENTER	560	872,778	94,161	1270,517	128,306	25,191	36,771		
NAVAL AIR PROPULSION TEST CENTER	66	323,476	15,720	230,578	128,306	25,191	36,771		
NAVAL AIR TEST CENTER	6638	21,987	314,311	4327,039	30,587	19,413	7,549		
NAVAL AIR TEST FACILITY (SHIP INSTALLATIONS)	2500	66,132	34,153	98,959	30,587	19,413	7,549		
NAVAL ARCTIC RESEARCH LABORATORY	4973	40,800	5,800	209,400	0.000	0.655	0.000		
NAVAL BIOMEDICAL RESEARCH LABORATORY	5	64,700	8,731	45,371	0.000	0.647	0.000		
NAVAL BLOOD RESEARCH LABORATORY	0	6,500	0.200	1,500	0.000	0.647	0.000		
NAVAL CLOTHING AND TEXTILE RESEARCH UNIT	2	10,000	7,000	3,000	0.000	0.647	0.000		
NAVAL COASTAL SYSTEMS RESEARCH UNIT	674	202,626	35,296	317,638	23,449	13,173	0.666		
NAVAL CENTRAL RESEARCH INSTITUTE, NTC	1	11,780	10,174	9,487	12,283	41,110	2,111		
NAVAL ELECTRONICS LABORATORY	1566	411,773	116,613	91,208	2,111	0.743	0.563		
NAVAL EXPLOSIVE ORDNANCE DISPOSAL FACILITY	1014	50,400	23,397	25,536	4,016	0.939	0.031		
NAVAL MEDICAL FIELD RESEARCH LABORATORY	3	29,816	8,655	19,381	4,016	0.939	0.031		
NAVAL MEDICAL RESEARCH INSTITUTE	4	151,730	21,561	26,590	4,016	0.939	0.031		
NAVAL MEDICAL RESEARCH UNIT NO. 2	2	32,882	16,075	48,364	0.031	39,056	49,400		
NAVAL MEDICAL RESEARCH UNIT NO. 3	3	22,789	7,508	34,543	0.031	39,056	49,400		
NAVAL MISSILE CENTER	4	144,973	229,777	239,801	53,119	3,501	74,194		
NAVAL ORDNANCE LABORATORY	1060	421,131	191,851	863,512	81,992	48,926	0.017		
NAVAL ORDNANCE MISSILE TEST FACILITY	112	84,310	30,540	252,090	0.000	0.017	1,002		
NAVAL RESEARCH AND DEVELOPMENT CENTER	2133	2451,497	236,566	623,666	45,610	37,888	0.131		
NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER	322	393,522	187,814	1405,876	0.000	0.017	1,002		
NAVAL SPACE SYSTEMS ACTIVITY	0	0.000	6,000	13,118	45,610	37,888	0.131		
NAVAL SUBMARINE MEDICAL RESEARCH LABORATORY	0	23,325	6,441	322,075	0.000	0.017	1,002		
NAVAL UNDERSEA CENTER	37613	409,166	47,353	322,075	0.000	0.017	1,002		
NAVAL UNDERWATER SYSTEMS CENTER	362	810,199	107,528	481,024	0.000	0.017	1,002		
NAVAL UNIT, FORT DETRICK	0	1,788	2,526	0.700	0.000	0.017	1,002		
NAVAL WEAPONS CENTER	1093594	729,414	320,311	4875,488	9,400	4,040	0.360		
NAVAL WEAPONS EVALUATION FACILITY	7	0.400	53,592	98,196	39,009	4,040	0.360		
NAVAL WEAPONS LABORATORY	4321	517,675	57,527	298,679	0.000	0.360	0.862		
NAVY MEDICAL NEUROPSYCHIATRIC RESEARCH UNIT	0	11,177	4,500	0.000	0.000	0.360	0.862		
NAVY PERSONNEL RESEARCH & DEVELOPMENT CENTER	1	47,300	4,900	0.000	0.000	0.360	0.862		
NAVY TOXICOLOGY UNIT, NMHC	0	2,260	0.140	2,037	0.187	174,600	0.371		
PACIFIC MISSILE RANGE	29377	89,163	275,883	1420,138	149,300	0.000	773,151		
U.S. NAVAL MEDICAL RESEARCH UNIT NO. 5	1	4,274	3,016	0.832	0.000	0.371	0.000		
TOTALS	1419894	9449,502	2619,153	19254,047	1108,354	773,151	0.000		

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TABLE 5. AIR FORCE ROT&E ACTIVITIES, PROGRAM AND PERSONNEL DATA, FY 1974

INSTALLATION	FUNDING DATA (MILLIONS \$)				PERSONNEL DATA									
	TOTAL		TOTAL		TOTAL	TOTAL		TOTAL		TOTAL		TOTAL		PROF
	INHOUSE	ROT&E	INHOUSE	ROT&E		INHOUSE	ROT&E	INHOUSE	ROT&E	MIL	CIV	MIL	CIV	
AEROPULSION LABORATORY	54.401	11.038	53.529	10.166	49	355	13	42	184					
AEROSPACE RESEARCH LABORATORIES	11.905	7.803	10.719	6.617	69	174	20	47	51					
ARMAMENT DEVELOPMENT AND TEST CENTER	434.082	118.133	128.667	63.602	4190	3240	92	25	1146					
ARNOLD ENGINEERING DEVELOPMENT CENTER	76.991	60.774	66.342	59.148	88	151	5	3	63					
AVIONICS LABORATORY	102.883	17.411	99.703	14.231	86	865	13	40	131					
CAMBRIDGE RESEARCH LABORATORY	58.026	35.342	55.077	33.295	155	904	17	165	58					
FLIGHT DYNAMICS LABORATORY	59.562	33.196	56.104	30.255	209	905	28	34	144					
FLIGHT TEST CENTER	84.622	73.131	49.891	39.268	3349	2066	7	9	315					
FRANK J. SEILER RESEARCH LABORATORY	1.546	1.546	0.520	0.520	22	9	12	1	24					
HUMAN RESOURCES LABORATORY	14.703	6.918	13.064	5.451	126	239	8	34	95					
MATERIALS LABORATORY	53.994	10.933	38.790	9.774	56	343	20	43	54					
ROCKET PROPULSION LABORATORY	25.452	10.716	23.196	8.584	178	267	10	10	66					
ROME AIR DEVELOPMENT CENTER	144.582	28.215	96.631	22.450	308	1154	7	11	112					
SPACE AND MISSILE TEST CENTER	73.179	18.879	57.525	11.808	423	374	4	3	210					
USAF SCHOOL OF AEROSPACE MEDICINE	19.714	18.166	10.626	9.118	598	355	78	36	210					
WEAPONS LABORATORY	94.575	33.207	83.381	22.513	735	403	101	30	529					
6570 AEROSPACE MEDICAL RESEARCH LABORATORY	14.027	7.003	12.189	5.165	134	162	30	28	71					
TOTALS	1324.244	492.411	855.954	351.965	10775	11966	465	532	3321					4360

TABLE 6. AIR FORCE ROT&E FACILITIES DATA, FY 1974

INSTALLATION	SPACE AND PROPERTY				COST (MILLIONS \$)	
	ACRES	LABORATORY	ADMIN	OTHER	REAL	EQUIPMENT
AEROPROPULSION LABORATORY	40	217,597	39,010	398,388	13,664	15,514
AEROSPACE RESEARCH LABORATORIES	34	69,335	39,679	34,217	13,510	11,869
ARMAMENT DEVELOPMENT AND TEST CENTER	46,643	352,972	802,474	9311,345	222,073	233,023
ARMED ENGINEERING DEVELOPMENT CENTER	40016	1149,177	201,411	532,216	365,782	61,933
AVIONICS LABORATORY	26	214,448	12,152	408,699	21,841	42,943
CAMBRIDGE RESEARCH LABORATORY	9662	578,747	18,146	117,078	20,820	62,996
FLIGHT DYNAMICS LABORATORY	90	541,130	60,600	184,419	22,559	58,360
FLIGHT TEST CENTER	246323	457,124	297,847	6512,039	162,180	93,895
FRANK J. SEILER RESEARCH LABORATORY	E	9,400	2,800	0,240	1,300	1,578
HUMAN RESOURCES LABORATORY	13	70,464	31,835	47,543	3,224	4,242
MATERIALS LABORATORY	V	160,000	97,000	27,000	7,175	12,522
ROCKET PROPULSION LABORATORY	54400	419,046	86,848	4,780	29,469	22,649
ROME AIR DEVELOPMENT CENTER	2116	799,291	115,327	73,586	24,024	56,811
SPACE AND MISSILE TEST CENTER	55567	91,407	334,384	431,954	94,520	99,737
USAF SCHOOL OF AEROSPACE MEDICINE	93	464,290	100,387	62,742	18,535	24,449
WEAPONS LABORATORY	1223	403,854	63,681	65,324	13,891	37,850
6570 AEROSPACE MEDICAL RESEARCH LABORATORY	30	223,459	10,000	15,200	11,693	16,344
TOTALS	874525	6221,741	2313,581	18226,770	1066,660	856,715

TABLE 7. DEPARTMENT OF DEFENSE RT&E ACTIVITIES, PROGRAM AND PERSONNEL DATA, FY 1974

INSTALLATION	FUNDING DATA (MILLIONS \$)			PERSONNEL DATA									
	TOTAL	TOTAL INHOUSE	TOTAL RT&E	TOTAL MIL	TOTAL CIV	TOTAL PHD	TOTAL MIL	TOTAL CIV	TOTAL PHD	TOTAL MIL	TOTAL CIV	TOTAL PHD	TOTAL MIL
ARMED FORCES RADIOBIOLOGY RES. INSTITUTE	4.988	4.988	3.584	92	139	19	18	52	59				
BETHESDA, MD	4.988	4.988	3.584	92	139	19	18	52	59				
TOTALS													

SUMMARY

DEPARTMENT OF DEFENSE IN-HOUSE R&D LABORATORIES

PROGRAM DATA FOR FY 1974

TOTAL ANNUAL LABORATORY PROGRAM	(MILLIONS)
TOTAL INHOUSE PROGRAM	2966.981
TOTAL RDT&E PROGRAM	1656.763
TOTAL INHOUSE RDT&E	2034.349
TOTAL ANNUAL OPERATING COST	1132.901
	404.471

PERSONNEL DATA (END OF FY 1974)

PERSONNEL	AUTHORIZED STRENGTH	TOTAL PHD	TOTAL PROFESSIONALS
MILITARY	7962	881	3449
CIVILIAN	56962	3147	24400
TOTAL	64924	4028	27849

PHYSICAL FACILITIES (END OF FY 1974)

ACRES	1528186
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SPACE (THOUSANDS OF SQ FT)

LABORATORY	22148.554
ADMINISTRATIVE	4602.794
OTHER	19344.444
TOTAL	46095.792

COST (MILLIONS)

REAL PROPERTY	1322.621
EQUIPMENT	1364.226
TOTAL	2686.847

TABLE 1A. ARMY R&D LABORATORIES, PROGRAM AND PERSONNEL DATA, FY 1974

INSTALLATION	FUNDING (MILLIONS \$)			PERSONNEL DATA									
	TOTAL	INHOUSE	TOTAL	RD/LE	RD/CE	TOTAL	CIV	PHD	PHD	PHD	PROF	PROF	PROF
AEROMEDICAL RESEARCH UNIT	2,999	2,999	2,245	2,245	2,245	53	40	17	3	21	7	7	7
AIR MOBILITY R&D LABORATORY	45,769	16,139	43,875	14,245	14,245	40	614	2	27	33	246	246	246
ATMOSPHERIC SCIENCES LABORATORY	10,225	7,941	10,036	7,752	7,752	440	281	0	13	10	115	115	115
AVIONICS LABORATORY	18,039	13,658	12,931	9,244	9,244	13	255	0	5	15	151	151	151
BALLISTICS RESEARCH LABORATORIES	40,144	24,484	39,481	23,821	23,821	66	817	7	101	52	435	435	435
BENET WEAPONS LABORATORY	23,171	14,839	12,295	8,618	8,618	7	393	2	43	6	177	177	177
COLD REGIONS REE LABORATORIES	7,863	7,014	3,978	3,461	3,461	42	244	1	29	22	86	86	86
COMBAT SURVEILLANCE & TGT ACQUISITION LABS	31,416	14,700	31,416	14,700	14,700	25	319	0	12	23	196	196	196
COMMUNICATIONS ADP LABORATORY	19,151	14,046	17,226	12,121	12,121	11	412	2	19	6	266	266	266
CONSTRUCTION ENGINEERING RESEARCH LABORATORY	5,715	3,842	5,157	3,370	3,370	5	303	0	52	1	151	151	151
EDGEWOOD ARSENAL LABORATORIES	41,586	37,168	35,549	31,131	31,131	173	898	35	60	94	473	473	473
ELECTRONIC WARFARE LABORATORY	35,031	13,882	33,761	13,238	13,238	49	429	0	5	7	207	207	207
ELECTRONICS TECHNOLOGY AND DEVICES LAB	16,607	11,147	15,846	10,458	10,458	5	368	3	37	10	229	229	229
ENGINEER TOPOGRAPHIC LABORATORIES	10,324	6,822	10,056	6,554	6,554	20	310	2	21	12	178	178	178
ENGINEER WATERWAYS EXPERIMENT STATION	33,883	27,994	11,614	9,633	9,633	55	1368	5	52	48	425	425	425
FRANKFORD ARSENAL LABORATORIES	59,190	52,659	26,913	20,382	20,382	28	1648	0	46	24	684	684	684
HARRY DIAMOND LABORATORIES	115,764	30,393	46,614	26,727	26,727	9	1578	3	69	8	836	836	836
HUMAN ENGINEERING LABORATORY	4,645	4,340	3,484	3,195	3,195	31	128	1	11	15	75	75	75
INSTITUTE OF DENTAL RESEARCH	1,841	1,841	0,845	0,845	0,845	56	26	21	1	29	7	7	7
INSTITUTE OF SURGICAL RESEARCH	3,153	3,153	1,500	1,500	1,500	134	80	20	3	142	28	28	28
LETTERMAN ARMY INSTITUTE OF RESEARCH	6,941	6,941	4,984	4,984	4,984	202	127	38	17	85	44	44	44
MATERIALS AND MECHANICS RESEARCH CENTER	28,300	16,604	23,376	13,062	13,062	15	626	3	67	8	211	211	211
MEDICAL BIODENGINEERING R&D LABORATORY	3,667	3,667	3,189	3,189	3,189	32	81	6	13	22	34	34	34
MEDICAL RESEARCH INST OF INFECTIOUS DISEASES	10,530	10,530	7,364	7,364	7,364	354	220	56	24	66	48	48	48
MEDICAL RESEARCH LABORATORY	2,626	2,626	1,416	1,416	1,416	104	104	11	9	74	23	23	23
MISSILE RES., DEV. AND ENGINEERING LAB	106,516	46,153	91,143	32,229	32,229	40	1219	9	71	32	736	736	736
MOBILITY EQUIPMENT R&D CENTER	110,555	27,914	47,530	20,858	20,858	68	1578	0	25	57	50	50	50
NATICK LABORATORIES	37,401	28,531	22,066	15,704	15,704	119	1167	13	97	43	459	459	459
NIGHT VISION LABORATORY	35,266	16,716	35,286	16,716	16,716	37	395	1	30	28	196	196	196
PICATINNY ARSENAL LABORATORIES	82,600	57,500	68,600	44,600	44,600	54	2865	0	52	39	1149	1149	1149
RESEARCH INST FOR BEHAVIORAL & SOCIAL SCI	14,761	3,451	14,761	3,451	3,451	69	218	2	69	21	124	124	124
RESEARCH INSTITUTE OF ENVIRONMENTAL MEDICINE	3,964	3,964	3,282	3,282	3,282	84	102	20	19	50	41	41	41
ROCK ISLAND ARSENAL LABORATORIES	26,507	15,997	18,054	9,996	9,996	13	703	5	19	13	336	336	336
TANK-AUTOMOTIVE LABORATORIES	49,414	24,813	24,089	12,786	12,786	34	905	1	7	18	388	388	388
WALTER REED ARMY INSTITUTE OF RESEARCH	22,231	22,231	13,632	13,632	13,632	568	640	190	70	297	214	214	214
TOTALS	1067,835	596,719	743,594	426,509	426,509	3055	21461	476	1198	1433	9475	9475	9475

TABLE 2A. ARMY RED FACILITIES DATA, FY 1974

INSTALLATION	SPACE AND PROPERTY				COST (MILLIONS \$)	
	ACRES	LABORATORY	ADMIN	OTHER	REAL PROPERTY	EQUIPMENT
AEROMEDICAL RESEARCH UNIT	10	33,900	6,900	10,969	0.432	3,750
AIR MOBILITY RED LABORATORY	108	85,014	43,308	15,584	1.474	5,470
ATMOSPHERIC SCIENCES LABORATORY	48045	5,600	2,500	3,300	0.000	22,000
AVIONICS LABORATORY	9	43,500	7,896	0.000	14,900	11,548
BALLISTICS RESEARCH LABORATORIES	3380	673,000	6,000	3,000	58,263	34,596
BENET WEAPONS LABORATORY	4	167,463	24,600	7,489	2,817	4,761
COLD REGIONS REC LABORATORIES	24	17,230	6,168	97,646	4,072	5,282
COMBAT SURVEILLANCE & IGT ACQUISITION LABS	0	114,351	5,075	11,571	0.000	5,000
COMMUNICATIONS ADP LABORATORY	0	37,445	43,360	0.000	0.000	10,300
CONSTRUCTION ENGINEERING RESEARCH LABORATORY	30	74,761	33,759	0.000	3,851	2,388
EDGEWOOD ARSENAL LABORATORIES	2000	457,423	89,010	153,390	16,316	13,496
ELECTRONIC WARFARE LABORATORY	0	139,716	8,023	35,735	7,042	48,733
ELECTRONICS TECHNOLOGY AND DEVICES LAB	0	134,393	5,250	3,046	0.000	13,860
ENGINEER TOPOGRAPHIC LABORATORIES	0	55,899	10,828	3,700	0.000	7,276
ENGINEER WATERWAYS EXPERIMENT STATION	1904	1545,000	312,896	170,723	15,617	28,526
FRANKFORD ARSENAL LABORATORIES	43	576,641	149,872	292,372	16,813	9,143
HARRY DIAMOND LABORATORIES	2237	459,585	47,510	81,552	11,874	24,159
HUMAN ENGINEERING LABORATORY	10	26,500	17,605	28,953	0.709	2,900
INSTITUTE OF DENTAL RESEARCH	4	9,325	5,696	6,730	0.758	0,650
INSTITUTE OF SURGICAL RESEARCH	1	25,422	0.800	22,408	1,968	1,434
LETTERMAN ARMY INSTITUTE OF RESEARCH	4	127,997	9,660	67,272	8,931	6,118
MATERIALS AND MECHANICS RESEARCH CENTER	48	389,161	96,018	169,979	14,286	16,416
MEDICAL BIOENGINEERING R&D LABORATORY	4	35,500	27,300	38,943	2,905	1,782
MEDICAL RESEARCH INST OF INFECTIOUS DISEASES	57	93,217	13,819	198,731	17,824	3,147
MEDICAL RESEARCH LABORATORY	20	88,025	5,368	34,734	0.280	2,693
MISSILE RES., DEV. AND ENGINEERING LAB	11000	1168,000	262,000	408,000	25,278	41,000
MOBILITY EQUIPMENT R&D CENTER	1060	679,478	110,624	160,538	24,236	31,000
NATICK LABORATORIES	2994	550,562	65,900	412,268	25,366	13,847
NIGHT VISION LABORATORY	21	73,261	3,521	67,207	43,961	37,402
PICATINNY ARSENAL LABORATORIES	5868	595,570	671,657	2613,626	74,536	61,251
RESEARCH INST FOR BEHAVIORAL & SOCIAL SCI	0	35,564	4,318	9,248	0.098	1,474
RESEARCH INSTITUTE OF ENVIRONMENTAL MEDICINE	4	60,421	18,563	28,647	3,663	1,800
ROCK ISLAND ARSENAL LABORATORIES	18	123,617	224,732	206,679	3,940	7,957
TANK-AUTOMOTIVE LABORATORIES	125	644,281	0.000	0.000	20,970	10,648
WALTER REED ARMY INSTITUTE OF RESEARCH	1177	401,300	47,900	12,220	0.000	16,349
TOTALS	80189	9748,122	2388,436	5376,260	423,180	586,356

TABLE 5A. NAVY AND NAVY MEDICAL LABORATORIES, PROGRAM AND PERSONNEL DATA, FY 1974

INSTALLATION	FUNDING DATA (MILLIONS \$)			PERSONNEL DATA									
	TOTAL INHOUSE	TOTAL RD&E	TOTAL INHOUSE RD&E	TOTAL MIL	TOTAL CIV	TOTAL PHC	TOTAL PHD	TOTAL PROF	TOTAL CIV	TOTAL MIL	TOTAL PROF	TOTAL CIV	
ENVIRONMENTAL PREDICTION RESEARCH FACILITY	2,503	1,258	2,073	16	31	1	1	7	20	7	20	7	
NATIONAL PARACHUTE TEST RANGE	10,684	9,626	2,244	279	334	4	0	18	29	18	29	18	
NAVAL AIRSPACE MEDICAL RESEARCH LABORATORY	4,657	4,657	4,152	32	117	15	15	21	48	21	48	21	
NAVAL AIR DEVELOPMENT CENTER	141,354	77,086	60,141	339	2484	5	52	60	1128	60	1128	60	
NAVAL AIR ENGINEERING CENTER	83,030	29,622	8,090	20	1699	0	4	16	288	4	16	288	
NAVAL ARCTIC RESEARCH LABORATORY	7,169	0,037	5,731	2	0	0	0	1	0	0	1	0	
NAVAL BIOMEDICAL RESEARCH LABORATORY	2,461	0,706	2,136	12	6	5	0	8	0	5	8	0	
NAVAL BLOOD RESEARCH LABORATORY	0,716	0,716	0,499	15	17	4	0	0	0	4	0	0	
NAVAL CLOTHING AND TEXTILE RESEARCH UNIT	1,569	1,569	0,755	1	60	0	0	0	22	0	22	0	
NAVAL COASTAL SYSTEMS LABORATORY	20,311	16,196	12,099	102	616	3	17	13	267	13	267	13	
NAVAL DENTAL RESEARCH INSTITUTE, NTC	0,725	0,725	0,394	22	17	2	4	4	6	4	6	4	
NAVAL ELECTRONICS LABORATORY CENTER	66,989	44,312	41,658	90	1492	2	68	38	645	38	645	38	
NAVAL MEDICAL FIELD RESEARCH LABORATORY	1,133	1,133	0,768	31	42	4	1	7	4	7	4	1	
NAVAL MEDICAL RESEARCH INSTITUTE	8,379	8,379	5,341	209	252	21	34	66	88	66	88	21	
NAVAL MEDICAL RESEARCH UNIT NO. 2	2,296	2,296	1,603	29	9	7	1	24	4	24	4	7	
NAVAL MEDICAL RESEARCH UNIT NO. 3	2,033	1,548	0,700	23	229	4	8	8	30	4	30	8	
NAVAL ORDNANCE LABORATORY	198,442	65,530	80,555	40	2791	0	171	22	1140	0	1140	22	
NAVAL RESEARCH LABORATORY	175,554	170,499	156,790	138	3676	2	502	7	1546	2	1546	7	
NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER	86,983	60,124	63,724	68	2905	0	104	17	1263	0	1263	17	
NAVAL SUBMARINE MEDICAL RESEARCH LABORATORY	1,914	1,914	1,449	36	65	6	11	15	30	6	30	11	
NAVAL UNDERSEA CENTER	80,613	49,309	57,263	264	1656	0	105	14	656	0	656	14	
NAVAL UNDERWATER SYSTEMS CENTER	133,424	107,515	50,577	148	3236	2	101	41	1474	2	1474	41	
NAVAL UNIT, FORT DETRICK	0,233	0,233	0,073	11	1	3	0	5	0	3	0	5	
NAVAL WEAPONS CENTER	217,767	120,676	106,442	588	4655	1	140	64	1568	1	1568	64	
NAVAL WEAPONS LABORATORY	82,577	66,443	42,129	89	2862	1	61	40	1165	1	1165	40	
NAVY MEDICAL NEUROPSYCHIATRIC RESEARCH UNIT	1,736	1,736	1,535	11	74	7	10	11	30	7	30	10	
NAVY MEDICAL RESEARCH & DEVELOPMENT CENTER	10,421	7,302	6,535	26	262	1	61	21	176	1	176	21	
NAVY PERSONNEL RESEARCH & DEVELOPMENT CENTER	0,579	0,579	0,412	16	7	2	0	0	0	2	0	0	
NAVY TOXICOLOGY UNIT, NMHC	0,579	0,579	0,412	16	7	2	0	0	0	2	0	0	
U.S. NAVAL MEDICAL RESEARCH UNIT NO. 5	0,600	0,000	0,000	21	56	5	5	7	5	5	7	5	
ADDIS ABABA ETHIOPIA	1258,502	651,726	744,266	2688	29582	1,07	1475	587	11854	1,07	11854	587	
TOTALS													

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TABLE 4A. NAVY R&D FACILITIES DATA, FY 1974

INSTALLATION	SPACE (THOUSANDS OF SQUARE FEET)				CLST (MILLIONS \$)	
	ACRES	LABORATORY	ADMIN	OTHER	REAL PROPERTY	EQUIPMENT
ENVIRONMENTAL PREDICTION RESEARCH FACILITY						
NATIONAL PARACHUTE TEST RANGE	0	1,808	5,012	17,440	0.000	0.812
NAVAL AEROSPACE MEDICAL RESEARCH LABORATORY	262137	6,400	56,676	1142,407	33,653	4,750
NAVAL AIR DEVELOPMENT CENTER		131,787	29,104	8,893	2,807	2,713
NAVAL AIR ENGINEERING CENTER	749	847,764	42,747	435,964	24,726	39,270
NAVAL ARCTIC RESEARCH LABORATORY	561	872,778	94,161	1270,517	33,685	26,464
NAVAL BIOMEDICAL RESEARCH LABORATORY	4973	40,800	5,800	209,470	30,587	19,413
NAVAL BLOOD RESEARCH LABORATORY	3	64,700	8,721	45,371	6,100	3,000
NAVAL CLOTHING AND TEXTILE RESEARCH UNIT	0	8,500	0.000	1,500	0.000	0.055
NAVAL COASTAL SYSTEMS LABORATORY	674	20,000	7,000	3,000	9,275	0.047
NAVAL DENTAL RESEARCH INSTITUTE, NMC	1	11,780	13,174	9,487	23,449	13,173
NAVAL ELECTRONICS LABORATORY CENTER	1580	411,773	116,613	91,258	12,283	41,110
NAVAL MEDICAL FIELD RESEARCH LABORATORY	3	29,816	8,855	19,381	0.563	0.743
NAVAL MEDICAL RESEARCH INSTITUTE	4	151,730	21,561	26,590	4,016	5,730
NAVAL MEDICAL RESEARCH UNIT NO. 2	2	32,882	16,375	48,364	0.101	0.939
NAVAL MEDICAL RESEARCH UNIT NO. 3	3	22,789	7,508	24,543	1,344	0.031
NAVAL ORDNANCE LABORATORY	1060	421,131	191,851	863,512	53,119	49,400
NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER	2132	2451,497	236,566	623,666	81,592	74,194
NAVAL SUBMARINE MEDICAL RESEARCH LABORATORY	322	393,522	187,814	1405,676	66,850	48,926
NAVAL UNDERSEA CENTER	37613	23,325	6,441	13,118	0.000	1.002
NAVAL UNDERWATER SYSTEMS CENTER	362	409,166	47,353	322,075	49,213	51,223
NAVAL UNIT, FORT DETRICK	0	1,788	107,526	481,024	30,580	37,888
NAVAL WEAPONS CENTER	0	1,788	2,526	5,700	0.000	0.131
NAVAL WEAPONS LABORATORY	1093594	729,414	320,311	4875,488	223,743	89,803
NAVY MEDICAL NEUROPSYCHIATRIC RESEARCH UNIT	4321	517,675	57,527	298,679	39,009	4,040
NAVY PERSONNEL RESEARCH & DEVELOPMENT CENTER	0	11,177	4,500	0.000	0.000	0.360
NAVY TOXICOLOGY UNIT, NMNC	1	47,300	4,900	0.000	0.302	0.862
U.S. NAVAL MEDICAL RESEARCH UNIT NO. 5	0	2,260	0.140	2,037	0.187	0.540
ADDIS ABABA ETHIOPIA	1	4,274	3,016	0.832	0.000	0.571
TOTALS	1360100	8668,661	1635,780	12561,710	707,901	506,626

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TABLE 5A. AIR FORCE MED LABORATORIES, PROGRAM AND PERSONNEL DATA, FY 1974

INSTALLATION		FUNDING DATA (MILLIONS \$)				PERSONNEL DATA									
		TOTAL	INHOUSE	TOTAL	INHOUSE	TOTAL	CIV	MIL	PHD	CIV	PROF	MIL	PROF		
AEROPROPULSION LABORATORY		54.401	11.038	53.529	10.166	49	355	13	13	13	42	164			
AEROSPACE RESEARCH LABORATORIES		11.905	7.803	10.719	6.617	69	174	23	47	51	75				
AVIONICS LABORATORY		102.883	17.411	96.703	14.231	86	865	13	40	131	274				
CAMBRIDGE RESEARCH LABORATORY		58.026	35.342	55.077	33.295	155	904	17	165	58	275				
FLIGHT DYNAMICS LABORATORY		59.562	33.196	56.104	30.255	209	905	28	34	144	515				
FRANK J. SEILER RESEARCH LABORATORY		1.546	1.546	0.520	0.520	22	9	12	1	24	5				
HUMAN RESOURCES LABORATORY		14.73	6.918	13.064	5.451	126	239	6	34	95	122				
MATERIALS LABORATORY		53.994	10.933	36.790	9.774	56	243	29	45	54	456				
ROCKET PROPULSION LABORATORY		25.452	10.716	23.196	8.584	178	267	10	10	66	101				
ROME AIR DEVELOPMENT CENTER		144.582	28.215	96.631	22.450	368	1154	7	11	112	526				
WEAPONS LABORATORY		94.575	33.267	83.381	22.513	735	403	101	36	529	211				
657th AEROSPACE MEDICAL RESEARCH LABORATORY		14.027	7.003	12.189	5.165	134	162	30	26	71	92				
TOTALS		635.656	203.328	542.903	169.021	2127	5786	279	456	1377	3612				

TABLE 6A. AIR FORCE R&D FACILITIES DATA, FY 1974

INSTALLATION	SPACE AND PROPERTY SPACE (THOUSANDS OF SQUARE FEET)				COST (MILLIONS \$)	
	ACRES	LABORATORY	ADMIN	OTHER	REAL PROPERTY	EQUIPMENT
AEROPULSION LABORATORY	40	217.597	39.010	398.388	13.664	15.514
AEROSPACE RESEARCH LABORATORIES	34	69.335	39.679	34.217	13.510	11.869
AVIONICS LABORATORY	264	214.448	12.152	408.699	21.841	42.943
CAMBRIDGE RESEARCH LABORATORY	9662	578.747	18.146	117.078	20.820	62.996
FLIGHT DYNAMICS LABORATORY	90	541.130	60.600	184.419	22.559	58.360
FRANK J. SEILER RESEARCH LABORATORY	0	9.400	2.800	0.240	1.300	1.578
HUMAN RESOURCES LABORATORY	13	70.464	31.835	47.543	3.224	4.242
MATERIALS LABORATORY	9	160.000	97.000	27.000	7.175	12.522
ROCKET PROPULSION LABORATORY	54400	419.046	86.848	4.780	29.869	22.649
ROME AIR DEVELOPMENT CENTER	2116	799.291	115.327	73.586	24.024	56.811
WEAPONS LABORATORY	1223	403.854	63.681	65.324	13.891	37.450
6570 AEROSPACE MEDICAL RESEARCH LABORATORY	30	223.459	10.000	15.200	11.693	16.344
TOTALS	67881	3706.771	577.078	1376.474	183.570	343.678

TABLE 7A. DEPARTMENT OF DEFENSE RDTEE FACILITIES DATA, FY 1974

INSTALLATION	BETHESDA, MD	SPACE AND PROPERTY		COST (MILLIONS \$)
		SPACE (THOUSANDS OF SQUARE FEET)		
ARMED FORCES RADIOBIOLOGY RES. INSTITUTE		ACRES LABORATORY	ADMIN	REAL
		10 25.000	1.500	PROPERTY EQUIPMENT
TOTALS		10 25.000	1.500	7.910 3.536
			30.000	7.910 3.536

TABLE 8 - ARMY RESEARCH AND DEVELOPMENT LABORATORY ORGANIZATIONAL RELATIONSHIPS

COMMAND CHAIN		
INTERMEDIATE		COMMAND
AEROMEDICAL RESEARCH UNIT	MEDICAL R&D COMMAND	THE SURGEON GENERAL
AIR MOBILITY R&D LABORATORY	AVIATION SYSTEMS COMMAND	ARMY MATERIEL COMMAND
ATMOSPHERIC SCIENCES LABORATORY	ELECTRONICS COMMAND	ARMY MATERIEL COMMAND
AVIONICS LABORATORY	ELECTRONICS COMMAND	ARMY MATERIEL COMMAND
BALLISTICS RESEARCH LABORATORIES	ARMAMENT COMMAND	ARMY MATERIEL COMMAND
BENET WEAPONS LABORATORIES		CHIEF OF ENGINEERS
COLD REGIONS R&E LABORATORIES		ARMY MATERIEL COMMAND
COMBAT SURVEILLANCE & TARGET ACQUISITION LABS	ELECTRONICS COMMAND	ARMY MATERIEL COMMAND
COMMUNICATIONS ADP LABORATORY	ELECTRONICS COMMAND	CHIEF OF ENGINEERS
CONSTRUCTION ENGINEERING RESEARCH LABORATORY		CHIEF OF ENGINEERS
EDGEWOOD ARSENAL LABORATORIES	ARMAMENT COMMAND	ARMY MATERIEL COMMAND
ELECTRONIC WARFARE LABORATORY	ELECTRONICS COMMAND	ARMY MATERIEL COMMAND
ELECTRONICS TECHNOLOGY & DEVICES LABORATORY	ELECTRONICS COMMAND	ARMY MATERIEL COMMAND
ENGINEER TOPOGRAPHIC LABORATORIES		CHIEF OF ENGINEERS
ENGINEER WATERWAYS EXPERIMENT STATION		CHIEF OF ENGINEERS
FRANKFORD ARSENAL LABORATORIES	ARMAMENT COMMAND	ARMY MATERIEL COMMAND
HARRY DIAMOND LABORATORIES		ARMY MATERIEL COMMAND
HUMAN ENGINEERING LABORATORY		THE SURGEON GENERAL
INSTITUTE OF DENTAL RESEARCH		THE SURGEON GENERAL
INSTITUTE OF SURGICAL RESEARCH	MEDICAL R&D COMMAND	THE SURGEON GENERAL
LETTERMAN ARMY INSTITUTE OF RESEARCH	MEDICAL R&D COMMAND	ARMY MATERIEL COMMAND
MATERIALS AND MECHANICS RESEARCH CENTER		THE SURGEON GENERAL
MEDICAL BIOENGINEERING R&D LABORATORY	MEDICAL R&D COMMAND	THE SURGEON GENERAL
MEDICAL RESEARCH INSTITUTE OF INFECTIOUS DISEASES	MEDICAL R&D COMMAND	THE SURGEON GENERAL
MEDICAL RESEARCH LABORATORY (FORT KNOX)	MEDICAL R&D COMMAND	THE SURGEON GENERAL
MISSILE RD&E LABORATORY	MISSILE COMMAND	ARMY MATERIEL COMMAND
MOBILITY EQUIPMENT R&D CENTER	TROOP SUPPORT COMMAND	ARMY MATERIEL COMMAND
NATICK LABORATORIES	TROOP SUPPORT COMMAND	ARMY MATERIEL COMMAND
NIGHT VISION LABORATORY	ELECTRONICS COMMAND	ARMY MATERIEL COMMAND
PICATINNY ARSENAL LABORATORIES	ARMAMENT COMMAND	ARMY MATERIEL COMMAND

TABLE 8 - (Continued)

	RESEARCH INSTITUTE FOR BEHAVIORAL AND SOCIAL SCIENCES	MEDICAL R&D COMMAND
	RESEARCH INSTITUTE OF ENVIRONMENTAL MEDICINE	ARMAMENT COMMAND
	ROCK ISLAND ARSENAL LABORATORIES	TANK-AUTOMOTIVE COMMAND
	TANK-AUTOMOTIVE LABORATORIES	MEDICAL R&D COMMAND
	WALTER REED ARMY INSTITUTE OF RESEARCH	

<u>INTERMEDIATE</u>		
<u>COMMAND CHAIN</u>		
		OFFICE OF CHIEF OF RESEARCH DEVELOPMENT & ACQUISITION
		THE SURGEON GENERAL
		ARMY MATERIEL COMMAND
		ARMY MATERIEL COMMAND
		THE SURGEON GENERAL

TABLE 9 - NAVY RESEARCH AND DEVELOPMENT LABORATORY ORGANIZATIONAL RELATIONSHIPS

COMMAND CHAIN	
INTERMEDIATE	COMMAND
ENVIRONMENTAL PREDICTION RESEARCH FACILITY	CHIEF OF NAVAL MATERIAL
NAVAL AEROSPACE MEDICAL RESEARCH LABORATORY	CHIEF, BUR OF MED/SUR
NAVAL AIR DEVELOPMENT CENTER	CHIEF OF NAVAL MATERIAL
NAVAL AIR ENGINEERING CENTER	CHIEF OF NAVAL MATERIAL
NAVAL ARCTIC RESEARCH LABORATORY	CHIEF OF NAVAL RESEARCH
NAVAL BIOMEDICAL RESEARCH LABORATORY	CHIEF OF NAVAL RESEARCH
NAVAL BLOOD RESEARCH LABORATORY	CHIEF, BUR OF MED/SUR
NAVAL CLOTHING AND TEXTILE RESEARCH UNIT	CHIEF OF NAVAL MATERIAL
NAVAL COASTAL SYSTEMS LABORATORY	CHIEF OF NAVAL MATERIAL
NAVAL DENTAL RESEARCH INSTITUTE, NTC	CHIEF, BUR OF MED/SUR
NAVAL ELECTRONICS LABORATORY CENTER	CHIEF OF NAVAL MATERIAL
NAVAL MEDICAL FIELD RESEARCH LABORATORY	CHIEF, BUR OF MED/SUR
NAVAL MEDICAL RESEARCH INSTITUTE	CHIEF OF NAVAL MATERIAL
NAVAL MEDICAL RESEARCH UNIT NO. 2	CHIEF, BUR OF MED/SUR
NAVAL MEDICAL RESEARCH UNIT NO. 3	CHIEF, BUR OF MED/SUR
NAVAL MEDICAL RESEARCH LABORATORY	CHIEF, BUR OF MED/SUR
NAVAL ORDNANCE LABORATORY	CHIEF OF NAVAL MATERIAL
NAVAL RESEARCH LABORATORY	CHIEF OF NAVAL RESEARCH
NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER	CHIEF OF NAVAL MATERIAL
NAVAL SUBMARINE MEDICAL RESEARCH LABORATORY	CHIEF OF NAVAL MATERIAL
NAVAL UNDERSEA CENTER	CHIEF OF NAVAL MATERIAL
NAVAL UNDERWATER SYSTEMS CENTER	CHIEF OF NAVAL MATERIAL
NAVAL UNIT, FORT DETRICK	CHIEF, BUR OF MED/SUR
NAVAL WEAPONS CENTER	CHIEF OF NAVAL MATERIAL
NAVAL WEAPONS LABORATORY	CHIEF OF NAVAL MATERIAL
NAVY MEDICAL NEUROPSYCHIATRIC RESEARCH UNIT	CHIEF, BUR OF MED/SUR
NAVY PERSONNEL RESEARCH & DEVELOPMENT CENTER	CHIEF OF NAVAL MATERIAL
NAVY TOXICOLOGY UNIT, NMMC	CHIEF, BUR OF MED/SUR
US NAVAL MEDICAL RESEARCH UNIT NO. 5	CHIEF OF NAVAL PERSONNEL
	CHIEF, BUR OF MED/SUR
	CHIEF, BUR OF MED/SUR

TABLE 9 - NAVY RESEARCH AND DEVELOPMENT LABORATORY ORGANIZATIONAL RELATIONSHIPS

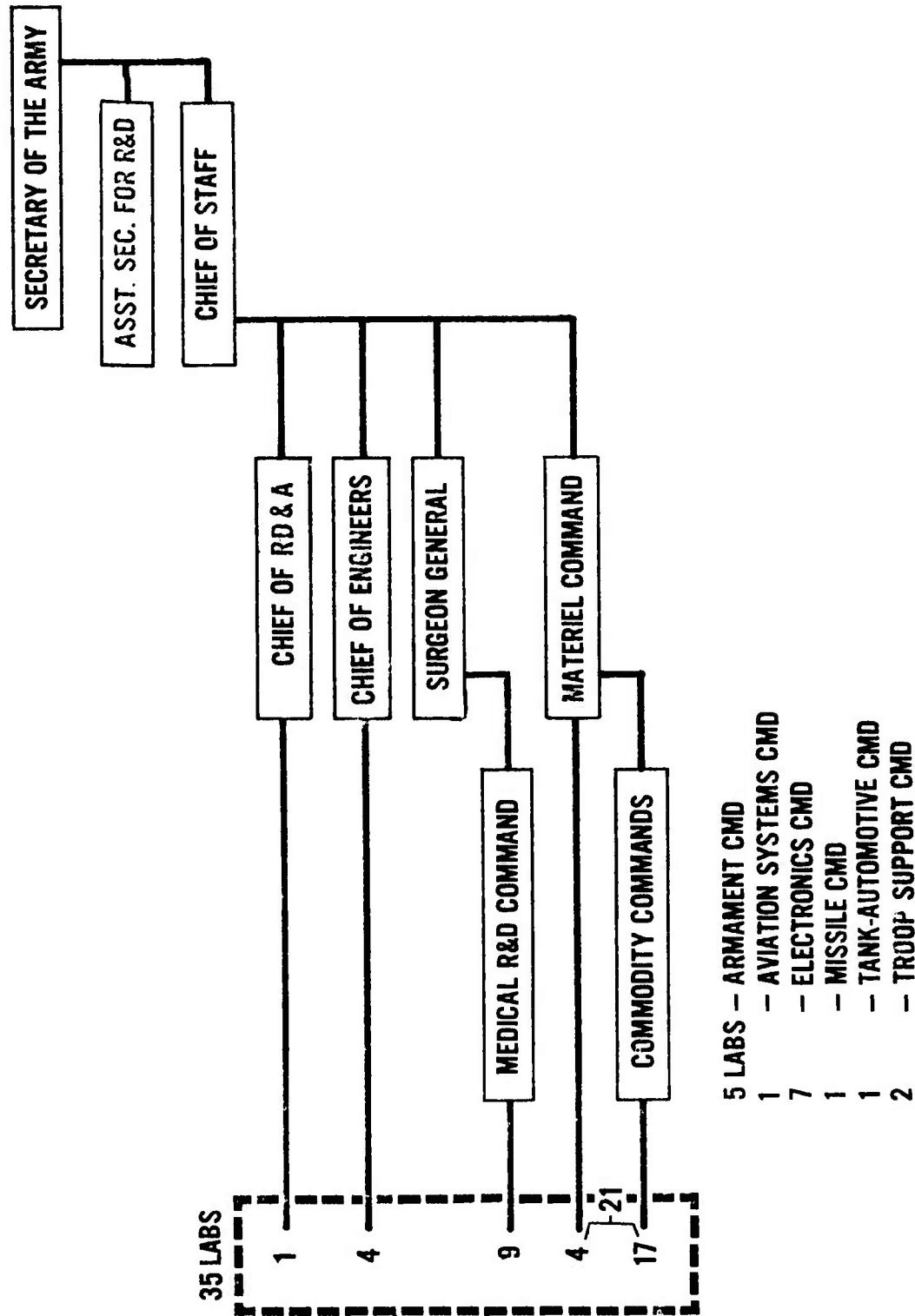
COMMAND CHAIN		
INTERMEDIATE		COMMAND
ENVIRONMENTAL PREDICTION RESEARCH FACILITY	NAVAL AIR SYSTEMS COMMAND	CHIEF OF NAVAL MATERIAL
NAVAL AEROSPACE MEDICAL RESEARCH LABORATORY	--	CHIEF, BUR OF MED/SUR
NAVAL AIR DEVELOPMENT CENTER	--	CHIEF OF NAVAL MATERIAL
NAVAL AIR ENGINEERING CENTER		CHIEF OF NAVAL MATERIAL
NAVAL ARCTIC RESEARCH LABORATORY	NAVAL AIR SYSTEMS COMMAND	CHIEF OF NAVAL RESEARCH
NAVAL BIOMEDICAL RESEARCH LABORATORY	--	CHIEF OF NAVAL RESEARCH
NAVAL BLOOD RESEARCH LABORATORY	--	CHIEF, BUR OF MED/SUR
NAVAL CLOTHING AND TEXTILE RESEARCH UNIT		CHIEF OF NAVAL MATERIAL
NAVAL COASTAL SYSTEMS LABORATORY	NAVAL SUPPLY SYS COMMAND	CHIEF OF NAVAL MATERIAL
NAVAL DENTAL RESEARCH INSTITUTE, NTC	--	CHIEF, BUR OF MED/SUR
NAVAL ELECTRONICS LABORATORY CENTER	--	CHIEF OF NAVAL MATERIAL
NAVAL MEDICAL FIELD RESEARCH LABORATORY	--	CHIEF OF NAVAL MATERIAL
NAVAL MEDICAL RESEARCH INSTITUTE	--	CHIEF, BUR OF MED/SUR
NAVAL MEDICAL RESEARCH UNIT NO. 2	--	CHIEF, BUR OF MED/SUR
NAVAL MEDICAL RESEARCH UNIT NO. 3	--	CHIEF, BUR OF MED/SUR
NAVAL ORDNANCE LABORATORY	--	CHIEF OF NAVAL MATERIAL
NAVAL RESEARCH LABORATORY	--	CHIEF OF NAVAL RESEARCH
NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER	--	CHIEF OF NAVAL MATERIAL
NAVAL SUBMARINE MEDICAL RESEARCH LABORATORY	--	CHIEF OF NAVAL MATERIAL
NAVAL UNDERSEA CENTER	--	CHIEF OF NAVAL MATERIAL
NAVAL UNDERWATER SYSTEMS CENTER	--	CHIEF, BUR OF MED/SUR
NAVAL UNIT, FORT DETRICK	--	CHIEF OF NAVAL MATERIAL
NAVAL WEAPONS CENTER	--	CHIEF OF NAVAL MATERIAL
NAVAL WEAPONS LABORATORY	--	CHIEF, BUR OF MED/SUR
NAVY MEDICAL NEUROPSYCHIATRIC RESEARCH UNIT	--	CHIEF OF NAVAL MATERIAL
NAVY PERSONNEL RESEARCH & DEVELOPMENT CENTER	--	CHIEF, BUR OF MED/SUR
NAVY TOXICOLOGY UNIT, NNMIC	--	CHIEF OF NAVAL PERSONNEL
US NAVAL MEDICAL RESEARCH UNIT NO. 5	--	CHIEF, BUR OF MED/SUR

TABLE 1C - AIR FORCE RESEARCH AND DEVELOPMENT LABORATORY ORGANIZATIONAL RELATIONSHIPS

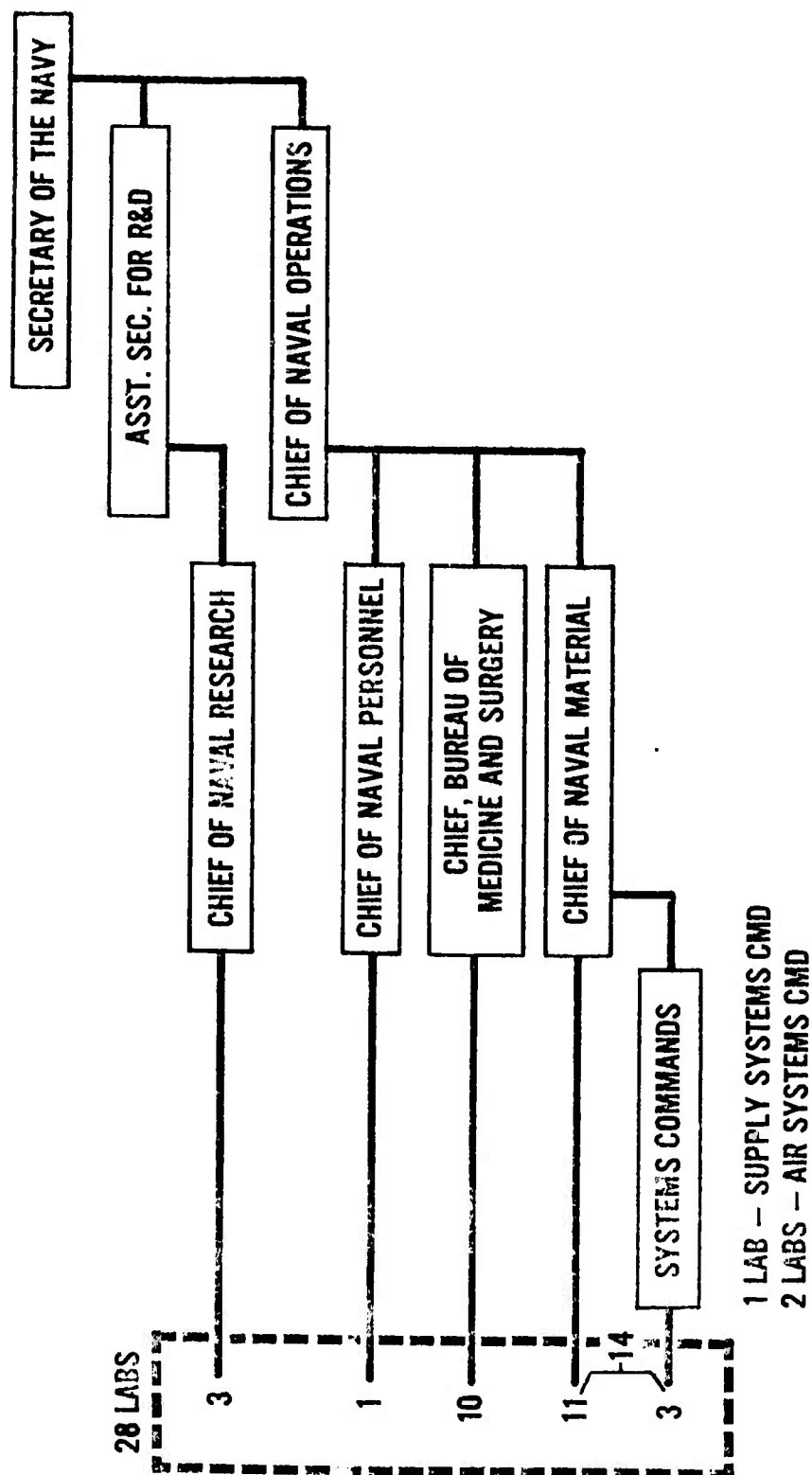
	<u>COMMAND CHAIN</u>	<u>INTERMEDIATE</u>	<u>COMMAND</u>
AEROPROPULSION LABORATORY			AF SYSTEMS COMMAND
AEROSPACE RESEARCH LABORATORIES			AF SYSTEMS COMMAND
* ARMAMENT LABORATORY		ARMAMENT DEV & TEST CENTER	AF SYSTEMS COMMAND
AVIONICS LABORATORY			AF SYSTEMS COMMAND
CAMBRIDGE RESEARCH LABORATORIES			AF SYSTEMS COMMAND
FLIGHT DYNAMICS LABORATORY			AF SYSTEMS COMMAND
FRANK J. SEILER RESEARCH LABORATORY			AF SYSTEMS COMMAND
HUMAN RESOURCES LABORATORY			AF SYSTEMS COMMAND
MATERIALS LABORATORY			AF SYSTEMS COMMAND
ROCKET PROPULSION LABORATORY			AF SYSTEMS COMMAND
ROME AIR DEVELOPMENT CENTER			AF SYSTEMS COMMAND
* SCHOOL OF AEROSPACE MEDICINE		AEROSPACE MEDICAL DIVISION	AF SYSTEMS COMMAND
WEAPONS LABORATORY			AF SYSTEMS COMMAND
6570 AEROSPACE MEDICAL RESEARCH LABORATORY		AEROSPACE MEDICAL DIVISION	AF SYSTEMS COMMAND

* Laboratory portion not reported separately in this report. (For Armament Laboratory, see Armament Development and Test Center.)

ARMY LABORATORIES COMMAND CHAIN

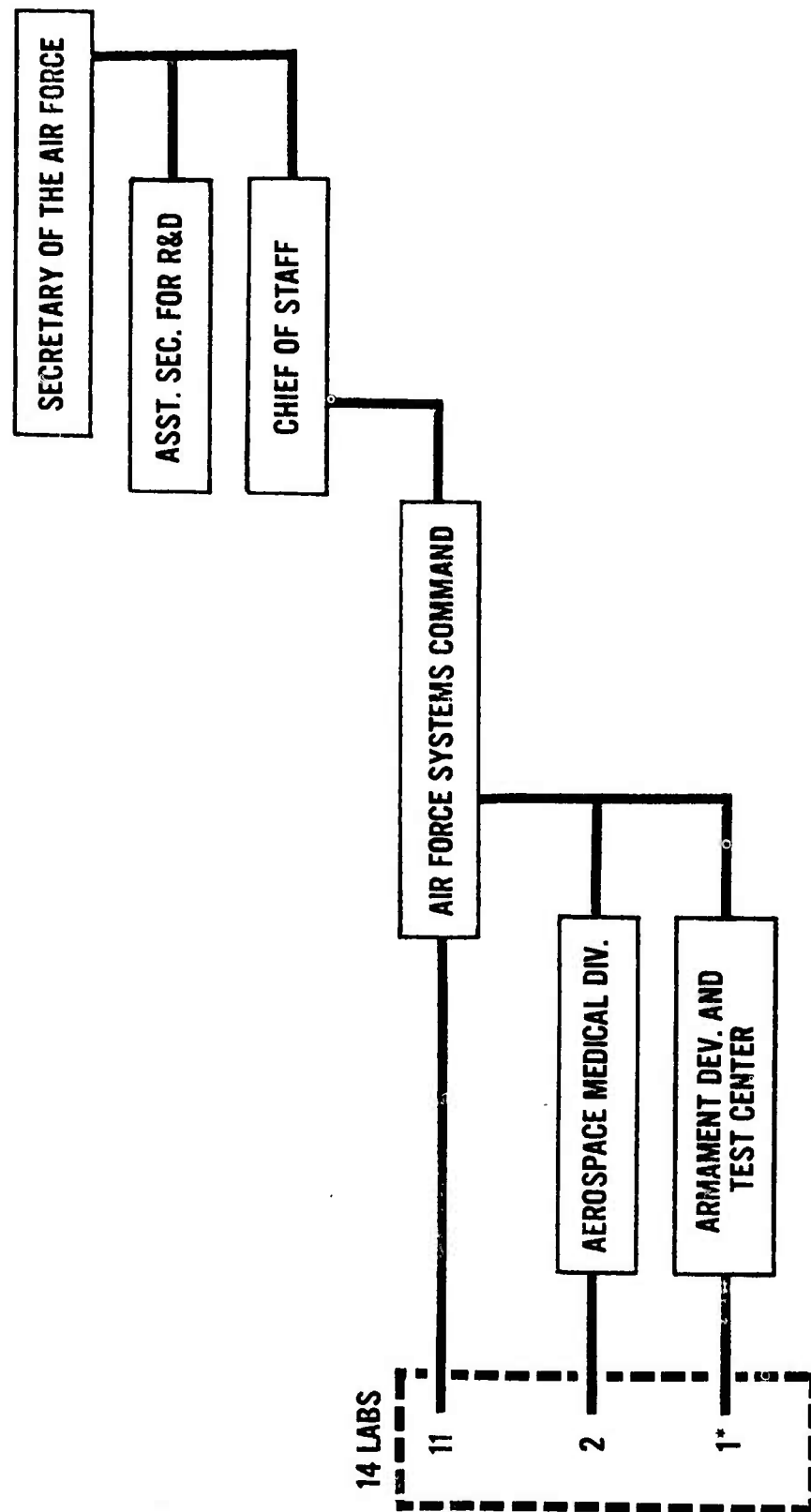


NAVY LABORATORIES COMMAND CHAIN



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AIR FORCE LABORATORIES COMMAND CHAIN



*THE ARMAMENT LABORATORY IS NOT REPORTED
SEPARATELY IN THIS REPORT
[SEE: ARMAMENT DEVELOPMENT AND TEST CENTER]

INSTALLATION AEROMEDICAL RESEARCH UNIT

FT. RUCKER, AL.

C.O. COL ROBERT W. BAILEY

TECH. DIR. DR. MARK A. HOFMANN

PROGRAM	PROGRAM DATA BY FISCAL YEAR (MILLION \$)	
	1974 (ACTUAL)	1975 (ACT + EST)
TOTAL RDT&E	2.245	2.200
TOTAL PROCUREMENT	0.000	0.000
TOTAL O&M	0.000	0.000
TOTAL OTHER	0.754	0.795
TOTAL ANNUAL LAB	2.999	2.995
TOTAL INHOUSE	2.999	2.995
TOTAL INHOUSE RDT&E	2.245	2.200
ANNUAL OPERATING COST	0.566	0.629

PERSONNEL	PERSONNEL DATA (END OF FY 1974)			
	AUTHORIZED STRENGTH	TOTAL PHDS	TOTAL PROF	NON- PROF
MILITARY	53	17	21	32
CIVILIAN	40	3	7	33
TOTAL	93	20	28	65

ACRES	SPACE AND PROPERTY			COST (MILLION \$)		
	SPACE (THOUSANDS OF SQUARE FEET)			TOTAL	REAL PROP	EQUIP
	LAB	ADMIN	OTHER			
10	33.900	6.900	10.969	51.769	0.432	3.750

...MISSION

CONDUCT STUDIES OF AAVN AND ABN OP MED PROBLEMS& PROVIDE CONSULTATIVE SERVICE TO OTHER ARMY ELEMENTS& AND CDT RSCH ON SENSORY PHYSIOLOGY RELATING TO EFFECTS OF VISUAL AND AUDITORY STIMULI, ACCELERATION AND DECELERATION, AND OTHER PHYSICAL FORCES ON THE SOLDIER'S PERFORMANCE

...CURRENT IMPORTANT PROGRAMS

DIRECT FIELD RESEARCH SUPPORT TO IMMEDIATE ARMY AEROMEDICAL PROBLEMS. MEDICAL RESEARCH APPLIED TO PROBLEMS IN ARMY AVIATION. RESEARCH OF PSYCHOACOUSTICAL PROBLEMS MEDICALLY SIGNIFICANT TO THE ARMY. RESEARCH OF BIDENGINEERING PROBLEMS MEDICALLY SIGNIFICANT TO ARMY AVN. RESEARCH OF VISUAL PROBLEMS MEDICALLY SIGNIFICANT TO THE ARMY.

...FUNCTIONS/EQUIPMENT/CAPABILITIES

MAJOR EQUIPMENT INCLUDES A SOUNDPROOF HEARING ROOM, ANECHOIC CHAMBERS, COLORIMETER, ECG AND EEG MACHINES, TECHNICON AUTOANALYZER, MASS SPECTROMETER, THREE DEGREE OF FREEDOM CLOSED-LOOP SERVOMYDRAULIC HELICOPTER SEAT MOUNTED SIMULATOR, A BIOCHEMISTRY LAB, AN ELECTRONICS AND ENGINEERING FABRICATION SHOP, PHOTOGRAPHY LABORATORY AND AIRBORNE MONITORING EQUIPMENT.

INSTALLATION AIR DEFENSE BOARD

EL PASO, TEXAS

PRES. COL WILLIAM H. HOLCOMBE, JR.

PROGRAM	PROGRAM DATA BY FISCAL YEAR (MILLION \$)	
	1974	1975
	(ACTUAL)	(ACT + EST)
TOTAL RDT&E	2.687	3.240
TOTAL PROCUREMENT	0.050	0.000
TOTAL OEM	0.000	0.000
TOTAL OTHER	3.408	3.500
TOTAL ANNUAL LAB	6.145	6.740
TOTAL INHOUSE	6.145	6.740
TOTAL INHOUSE RDT&E	2.687	3.240
ANNUAL OPERATING COST	0.643	0.655

PERSONNEL	PERSONNEL DATA (END OF FY 1974)			
	AUTHORIZED	TOTAL	TOTAL	NON-
	STRENGTH	PHOS	PROF	PROF
MILITARY	319	0	37	282
CIVILIAN	125	0	14	111
TOTAL	444	0	51	393

ACRES	SPACE AND PROPERTY				COST (MILLION \$)	
	SPACE (THOUSANDS OF SQUARE FEET)			TOTAL	REAL PROP	EQUIP
	LAB	ADMIN	OTHER			
26	36.550	36.646	69.942	143.138	1.895	8.901

...MISSION

PLAN, CONDUCT, & RPT ON DT I, DT II & OTHER DEVELOPMENT TYPE TESTS OF AD WPN SYS, FOS, ELECTRONIC COUNTERMEASURES & COUNTER-COUNTERMEASURES OF EQUIP & DEVICES & TGT DEVICES. PARTICIPATE IN OT II (ENGINEERING PHASE) & OT III AS DIR. PROV ADVICE & GUIDANCE ON TEST & EVAL MATTERS.

...CURRENT IMPORTANT PROGRAMS

INTEGRATED ET/EXPANDED SERVICE TEST OF VARIABLE SPEED TNG TGT (BEECH)
INTRG ET/EXPANDED SERVICE TEST OF VARIABLE SPEED TNG TGT (NORTHROP)
SUPPORT ROSETTE SCAN SEEKER/CHAPARRAL
GUN LOW ALTITUDE AIR DEFENSE SYSTEM (GLAADS)
ST AIR DEFENSE COMMAND CONTROL & COORDINATION SYSTEM AN/TSQ-73

...FUNCTIONS/EQUIPMENT/CAPABILITIES

ASSURE MAXIMUM UTILIZATION OF RESOURCES IN ACCOMPLISHMENT OF MISSION.
PLAN CONDUCT RECORD & RPT RESULTS OF DEVELOPMENT TESTS & EVALUATIONS.
REVIEW & COMMENT ON TNG DEVICE REQUIREMENT DOCUMENTS, NEW EQUIP TNG PKGS & ASSIST IN REVIEW OF MIL SPECS. PROVIDE TECOM TEST REQUIREMENTS FOR CO-ORDINATED TEST PROGRAM. PLAN DIRECT & CONTROL A PROGRAM IN TEST METHODOLOGY, TEST INSTRUMENTATION & TEST FACILITIES NEEDED TO SPT CURRENT & FUTURE REQUIREMENTS WITHIN ASSIGNED MISSION AREA. SPT FIELD RESEARCH, STUDIES, TESTS, & OPERATIONS OF AMC, DA, OR ODO AGENCIES AS REQ OR DIR. EQUIPMENT-COMPUTER, TAC & INSTRUMENTATION RADAR, AUTOMATED DATA ACQUISITION SYSTEMS, CINETHEODOLITES, PHOTO LAB & FILM READING EQUIPMENT. SITE MONITOR FOR ELECTRONIC TEST OF EQUIPMENT & DONA ANA RANGE FOR FIRING FORWARD AREA WEAPONS AT TARGET DEVICES AND TARGET DRONES.

INSTALLATION AIR MOBILITY R&D LABORATORY

MOUNTAIN VIEW, CAL

ACT DIRECTOR COL NORMAN L ROBINSON

PROGRAM	PROGRAM DATA BY FISCAL YEAR (MILLION \$)	
	1974 (ACTUAL)	1975 (ACT + EST)
TOTAL RDT&E	43.875	54.165
TOTAL PROCUREMENT	0.626	0.075
TOTAL O&M	0.773	0.000
TOTAL OTHER	0.495	0.573
TOTAL ANNUAL LAB	45.769	54.813
TOTAL INHOUSE	16.139	23.498
TOTAL INHOUSE RDT&E	14.245	22.850
ANNUAL OPERATING COST	0.425	0.470

PERSONNEL	PERSONNEL DATA (END OF FY 1974)				NON-PROF
	AUTHORIZED STRENGTH	TOTAL PHDS	TOTAL PROF		
MILITARY	40	2	33		7
CIVILIAN	614	27	246		368
TOTAL	654	29	279		375

ACRES	SPACE AND PROPERTY			COST (MILLION \$)		
	SPACE (THOUSANDS OF SQUARE FEET)			TOTAL	REAL PROP	EQUIP
	LAB	ADMIN	OTHER			
108	85.014	43.308	15.584	143.906	1.474	5.470

...MISSION

MANAGES AND EXECUTES R&D OF ARMY AIRMOBILE SYSTEMS, THROUGH DEMONSTRATION OF TECHNOLOGY. PROVIDES TECHNICAL SUPPORT TO PROJECT/PRODUCT MANAGERS & SYSTEM DEVELOPERS AS REQUIRED. PROVIDES INDEPENDENT TECHNICAL RISK ASSESSMENT TO CG USAAVSCOM AND HIGHER AUTHORITY.

...CURRENT IMPORTANT PROGRAMS

RESEARCH IN FUNDAMENTAL ROTOR AERODYNAMICS, DYNAMICS & NOISE.
RESEARCH & DEVELOPMENT OF SMALL GAS TURBINES.
R&D TO IMPROVE RELIABILITY & MAINTAINABILITY OF AIRMOBILE SYSTEMS.
RSCH. COMPOSITES & MEASURE OPNL. FLT. LOADS TO IMPROVE STRUCTURES FOR A/C
EVOLVE TECHNOLOGY & CRITERIA TO IMPROVE FLIGHT SAFETY & SURVIVABILITY.

...FUNCTIONS/EQUIPMENT/CAPABILITIES

THREE DIRECTORATES AT MOFFETT FIELD CA, CLEVELAND OH, HAMPTON VA & COLOCATED WITH NASA, PARTICIPATING IN RSCH OF AIRMOBILE SYS & DISCIPLINES, JOINTLY USING WIND TUNNELS, SIMULATORS & LABORATORY TEST FACILITIES, INCLUDING SHOPS, FLT LINE & HANGER, STRUCTURE LAB, ENGINE TEST FACILITIES & COMPUTATIONAL EQPT. FOURTH DIRECTORATE AT FT. EUSTIS, VA., PERFORMING ADVANCED APPLICATIONS WORK. MAJOR EQUIPMENT & FACILITIES: FILLAMENT WINGING MACHINES, TENSILE TESTERS, VIBRATION TESTER, SMALL BALLISTIC RANGE, CALIBRATION LAB, ENVIRONMENT CHAMBER, ATOMIC ABSORPTION SPECTR, TELE-METER GROUND STATION, NON-DESTRUCT TESTING FACILITY, FLIGHT SAFETY LAB.

INSTALLATION AIRBORNE COMMUNICATIONS & ELECTRONICS BOARD FT. BRAGG, N.C.

PRES. COL ROBERT APT

ENGIN. ADV. MR. JOE N. IRELAND

PROGRAM	PROGRAM DATA BY FISCAL YEAR (MILLION \$)	
	1974 (ACTUAL)	1975 (ACT + EST)
TOTAL RDT&E	1.366	1.772
TOTAL PROCUREMENT	0.000	0.000
TOTAL O&M	0.000	0.000
TOTAL OTHER	2.219	2.500
TOTAL ANNUAL LAB	3.585	4.272
TOTAL INHOUSE	3.585	4.272
TOTAL INHOUSE RDT&E	1.366	1.772
ANNUAL OPERATING COST	0.820	0.858

PERSONNEL	PERSONNEL DATA (END OF FY 1974)			TOTAL PROF	NON- PROF
	AUTHORIZED STRENGTH	TOTAL PHDS	TOTAL		
MILITARY	211	0	40		171
CIVILIAN	65	2	8		57
TOTAL	276	2	48		228

ACRES	SPACE AND PROPERTY SPACE (THOUSANDS OF SQUARE FEET)			TOTAL	COST (MILLION \$)	
	LAB	ADMIN	OTHER		REAL PROP	EQUIP
27	0.000	50.879	179.991	230.870	4.560	3.460

...MISSION
PLAN, CONDUCT, AND REPORT ON DEVELOPMENT TEST I, DEVELOPMENT TEST II,
(SERVICE PHASE) AND OTHER DEV. TYPE TESTS OF ABN, COMMUNICATIONS AND
ELEC EQUIP AND SYS. THE COMMUNICATIONS AND ELEC ITEMS ARE EQUIP AND SYS
USED AT DIV LEVEL OR BELOW. ABN TEST SPT EQUIP AIRDROP AND TRANSPORT.

...CURRENT IMPORTANT PROGRAMS
T-10 PERSONNEL PARACHUTE SVC TESTS
DT I REMBASS
J-SIIDS INTRUSION DEVICE
G-11A PULL-DOWN VENT
XM124 FIRING DEVICE

...FUNCTIONS/EQUIPMENT/CAPABILITIES
FACILITIES INCLUDE: HANGAR BLD, COMMUNICATIONS-ELECTRONICS FACILITY,
CRYPTOGRAPHIC TEST FACILITY, WOODWORK SHOP AND A SENSOR TEST FACILITY.
MAJOR EQUIPMENT INCLUDES: 2 T28B AIRCRAFT, 1 U8G AIRCRAFT, 1 UH-1H HELI-
COPTER, 40000-POUND LOADER, 5-TON WRECKER, 20-TON MOBILE CRANE, 3 SEMI-
TRAILERS, SEVERAL STD VEHICLES, VARIOUS TYPES OF STANDARD PARACHUTES
STANDARD PLATFORMS, EIGHT GASOLINE DRIVEN GENERATORS, BALLASTABLE AIRDROP
VEHICLES WITH REMOVABLE WEIGHT INCREMENTS, THREE ANEMOMETERS, VARIOUS
THERMOMETERS, STOPWATCHES, 46 TACTICAL RADIO SETS, 2 RADIO RECEIVERS,
SIX TELETYPEWRITER SETS, SEVENTEEN SIGNAL GENERATORS, 2 LEVEL METERS,
R1 SOUND AND VIBRATION ANALYZER, 1 PHOTO ANALYZER, 5 OSCILLOGRAPHS,
CLOSED CIRCUIT VIDEO EQUIPMENT, STRAIN GUAGES, ACCELLEROMETERS,
AND GALVANOMETERS.

INSTALLATION ARCTIC TEST CENTER

FT. GREELY, AK.

C.O. COL JOHN M. PICKARTS

TECH. DIR. MR. JERRELL L. SANDERS

PROGRAM	PROGRAM DATA BY FISCAL YEAR (MILLION \$)	
	1974 (ACTUAL)	1975 (ACT + EST)
TOTAL RDT&E	2.858	3.262
TOTAL PROCUREMENT	0.000	0.000
TOTAL O&M	0.000	0.000
TOTAL OTHER	2.800	3.153
TOTAL ANNUAL LAB	5.658	6.415
TOTAL INHOUSE	5.654	6.370
TOTAL INHOUSE RDT&E	2.854	3.217
ANNUAL OPERATING COST	1.445	1.740

PERSONNEL	PERSONNEL DATA (END OF FY 1974)			NON-PROF
	AUTHORIZED STRENGTH	TOTAL PHDS	TOTAL PROF	
MILITARY	297	1	71	226
CIVILIAN	26	0	6	20
TOTAL	323	1	77	246

ACRES	SPACE AND PROPERTY			COST (MILLION \$)		
	SPACE (THOUSANDS OF SQUARE FEET)			TOTAL	REAL PROP	EQUIP
	LAB	ADMIN	OTHER			
647155	5.100	120.079	129.152	254.331	12.196	5.762

...MISSION
MISSION-PLAN CONDUCT AND RPT ON ARCTIC ENVIRON PHASES OF TESTS-PROVIDE ADV AND GUIDANCE TO MATERIEL DEVELOPERS ET AL RE ARCTIC TEST AND EVAL- PROVIDE TEST SUPPORT TO DOD AND GOVERNMENT AGENCIES IAW CDR TECOM DIRECTIVES

...CURRENT IMPORTANT PROGRAMS
NIGHT VISION SIGHT CREW SERVED WEAPONS TRMS NO 7-ES-315-CSW-005
NIGHT VISION SIGHT INDIVIDUAL WEAPONS TRMS NO 7-ES-315-SLS-005
NIGHT VISION GOGGLES TRMS NO 7-ES-315-000-004
MOBILE FIELD KITCHEN TRAILER TRMS NO 7-ES-765-000-005
AIR TRANSPORTABLE SHELTER TRMS NO 7-ES-975-000-005

...FUNCTIONS/EQUIPMENT/CAPABILITIES
ATC FAC CAN ACCOMMODATE A WIDE VAR AND LARGE NO OF TEST ITEMS AT ANY ONE TIME, SEVERAL VEH TEST COURSES PLUS EXTENSIVE CROSS COUNTRY TERRAIN, RANGES ARE VERSATILE W 500K ACRE ISOLATED IMPACT AREA. 50KM MAX UNOBSERV RANGE, LARGE RESTRICTED AIRSPACE AREA W UNRESTRICTED FIRING TO 5K FT ORDNATE COORD W LOCAL FAA CAN EFFECT UNRESTRICTED ORDNATE, 1ST 2ND OR 3RD ORDER SURVEY POINTS, GOOD SECONDARY ROADS, TFL AND NON-TAC RADIO AT ALL RANGES AND TEST SITES, AUTODIN FACSIMILE TELETYPE, PHOTO LAB, MAINT FOR MAJORITY OF EQUIP TO INCL ACFT DS/GS, CALIBRATION SERVICES, LIMITED ENGR SUPPORT, UH1A AND YC7A ACFT ORGANIC, AF SPT CAN BE ARNGD, MET SPT AVAIL, INSTRUMENTS FOR MOST ITEMS ON HAND, CAN OBTAIN OTHER INSTRUMENTS MOVING TGT SYSTEM, REMOTE SARTS TGT SYSTEM SCHED FY75, EOD, STATISTICAL AND MAINT EVAL AVAIL, ADEQUATE COMPUTER FAC BY LINK W WSMR

INSTALLATION ARMOR AND ENGINEER BOARD

FT. KNOX, KENTUCKY

PRES. COL JOHN P. BERRIS

TECH. DIR. MR. JAMES L. KELTON

PROGRAM	PROGRAM DATA BY FISCAL YEAR (MILLION \$)	
	1974 (ACTUAL)	1975 (ACT + EST)
TOTAL RDT&E	2.653	2.014
TOTAL PROCUREMENT	0.101	0.145
TOTAL O&M	0.018	0.053
TOTAL OTHER	4.863	5.200
TOTAL ANNUAL LAB	7.635	7.412
TOTAL INHOUSE	7.635	7.412
TOTAL INHOUSE RDT&E	2.653	2.014
ANNUAL OPERATING COST	0.446	0.522

PERSONNEL	PERSONNEL DATA (END OF FY 1974)			
	AUTHORIZED STRENGTH	TOTAL PHDS	TOTAL PROF	NON- PROF
MILITARY	379	1	49	330
CIVILIAN	104	0	14	90
TOTAL	483	1	63	420

ACRES	SPACE AND PROPERTY (THOUSANDS OF SQUARE FEET)			COST (MILLION \$)		
	LAB	ADMIN	OTHER	TOTAL	REAL PROP	EQUIP
6900	6.200	68.068	166.374	240.642	1.419	1.849

...MISSION

PLAN, CONDUCT & REPORT ON DTI, DTII (SVC PH) & OTHER TESTS OF ARMOR AND ENGR EQUIP, AUTMV SYS & MAT, ATOMIC DEMO & GEN EQ. PARTICIPATE IN DTIII & SPEC STUDIES OF CCE. PROVIDE ADVICE & GUIDANCE TO MATERIAL DEVELOPERS, OTHER SERVICES & PRIVATE INDUSTRY. CONDUCT OTHER TESTS AS DIRECTED.

...CURRENT IMPORTANT PROGRAMS

DEVELOPMENT TEST I, FAMILY OF MILITARY ENGR CONSTRUCTION EQUIPMENT.
DEVELOPMENT TEST II (SVC PH) OF TANK COMBAT FT, 105MM GUN, M60A1E3.
DEVELOPMENT TEST II (SVC PH) OF ARMD RECONNAISSANCE SCOUT VEHICLE, XM800
EXPANDED SERVICE TEST, AREA DENIAL ARTILLERY MUNITIONS, XM692 & XM731.
SERVICE TEST, NIGHT VISION SITE, INDIVIDUAL SERVED WEAPONS, AN/PVS-4.

...FUNCTIONS/EQUIPMENT/CAPABILITIES

USAARENBD MAJOR EQUIP: SIMFIRE INSTRUMENTATION SYSTEMS& OVERHEAD CRANE-40 TON, STILL & MOTION PICTURE PHOTO EQUIP, STATIONARY ELEVATED CAMERA PLATFORM FOR HEIGHTS UP TO 40 FT ABOVE ADJACENT GRADE, VIDEO TAPE RECORDER, GENERATOR LOAD BANKS, MOBILE DYNAMOMETER, WHICH MEASURES DRAW BAR PULL FROM 0 TO 100 TONS, TACTICAL WHLD VEHICLES, COMBAT VEHICLES & ENGR CONSTR EQUIP& MACHINE SHOP EQUIP AND SHOP MAINTENANCE SETS.
USAARENBD FACILITIES, 6900 ACRES AVAILABLE FOR TESTING, MCFARLAND-OLIVER RANGE(160 ACRES) WITH FIRING CAPABILITY OF UP TO 2000 METERS, ADDITIONAL RANGE, WITH FIRING CAPABILITIES UP TO 10,000 METERS, ON SPACE AVAILABLE BASIS, STILL WATER TEST AREA, 72,988 SQ FT BARRACKS SPACE, 71,788 SQ FT OFFICE SPACE, 69,888 SQ FT OF SHOP AREA, 48,106 SQ FT OF STORAGE SPACE AND 85,750 SQ FT OF MOTOR PARK SPACE.

INSTALLATION ARMY MATERIAL SYSTEMS ANALYSIS AGENCY

ABERDEEN PROV GR, MD

DIR. DR. JOSEPH SPERRAZZA

C.O. AND DEP. DIR. COL R.D. POWELL

PROGRAM	PROGRAM DATA BY FISCAL YEAR (MILLION \$)	
	1974 (ACTUAL)	1975 (ACT + EST)
TOTAL RDT&E	12.031	13.554
TOTAL PROCUREMENT	0.000	0.000
TOTAL O&M	1.957	1.878
TOTAL OTHER	0.000	0.000
TOTAL ANNUAL LAB	13.988	15.432
TOTAL INHOUSE	8.287	9.227
TOTAL INHOUSE RDT&E	6.830	8.148
ANNUAL OPERATING COST	0.886	1.087

PERSONNEL	PERSONNEL DATA (END OF FY 1974)		TOTAL PROF	NON- PROF
	AUTHORIZED STRENGTH	TOTAL PHDS		
MILITARY	35	0	20	15
CIVILIAN	350	8	250	100
TOTAL	385	8	270	115

ACRES	SPACE AND PROPERTY			COST (MILLION \$)		
	SPACE (THOUSANDS OF SQUARE FEET)	LAB	ADMIN	OTHER	TOTAL	REAL PROP
5	13.983	91.244	2.195	107.422	2.219	0.634

...MISSION
TO PROVIDE THE CENTRAL INDEPENDENT TECHNICAL CAPABILITY OF AMC FOR THE
CONDUCT OF MAJOR SYSTEMS ANALYSES AND COST EFFECTIVENESS, TO MAINTAIN
DIRECT CONTACT WITH ARMY MATL USERS IN THE FIELD, TO SERVE AS THE AMC
FIELD AGENCY TO ADMINISTER THE JTCG/ME

...CURRENT IMPORTANT PROGRAMS
ARTILLERY EFFECTIVITY
ARMY TANK PROGRAM
AIR DEFENSE GUN STUDY
ACFT SYSTEMS EVALUATIONS
COEA SUPPORT OF TRADOC

...FUNCTIONS/EQUIPMENT/CAPABILITIES
CONDUCT AMC WPN SYS ANALYSIS AND EVAL OF MATERIAL CONCEPTS AND PROPOSALS
DEVELOPS, IMPROVES, AND DISSEMINATES METHODOLOGY AND TECHNIQUES FOR-
CONDUCT OF SYS ANALYSIS, ANAL OF PERFORMANCE, SCHEDULE AND COST RISKS,
DESIGN, CONDUCT AND EVAL OF TESTS. EVAL LIFE CYCLE REQ OF MATERIAL SYS.
CONDUCTS TACTICAL, OPERATIONAL ANALYSIS OF WPN AND MATERIAL SYSTEMS.
RELIABILITY, AVAILABILITY AND MAINTANABILITY CENTER FOR ARMY SYS. TECH
DIR OF AMC SURVEILLANCE PROGRAM FOR STOCKS OF ARMY MISSILES, NUCLEAR,
AND NONNUCLEAR AMMUNITION. PROVIDE TECH COORD, DATA, AND ANALYSIS FOR
DETERMINATION OF JOINT SERVICES MUNITIONS EFFECTIVENESS MODELS AND
MANUALS.

INSTALLATION ATMOSPHERIC SCIENCES LABORATORY

WHITE SANDS MR, N.M.

C.O. AND DIR. COL WILLIAM C. PETTY DEPUTY DIR. MR. MARVIN DIAMOND

PROGRAM	PROGRAM DATA BY FISCAL YEAR (MILLION \$)	
	1974 (ACTUAL)	1975 (ACT + EST)
TOTAL RDTE&E	10.036	12.317
TOTAL PROCUREMENT	0.189	0.046
TOTAL O&M	0.000	0.000
TOTAL OTHER	0.000	0.000
TOTAL ANNUAL LAB	10.225	12.363
TOTAL INHOUSE	7.941	8.929
TOTAL INHOUSE RDTE&E	7.752	8.883
ANNUAL OPERATING COST	2.290	3.648

PERSONNEL	PERSONNEL DATA (END OF FY 1974)			
	AUTHORIZED STRENGTH	TOTAL PHDS	TOTAL PROF	NON- PROF
MILITARY	440	0	10	430
CIVILIAN	281	13	115	166
TOTAL	721	13	125	596

ACRES	SPACE AND PROPERTY SPACE (THOUSANDS OF SQUARE FEET)			COST (MILLION \$)		
	LAB	ADMIN	OTHER	TOTAL	REAL PROP	EQUIP
48045	5.600	2.500	3.300	11.400	0.000	22.000

...MISSION

RESEARCH IN ATMOSPHERIC SCIENCES, DEVELOPMENT OF METEOROLOGICAL TECHNIQUES AND EQUIPMENT FOR FIELD ARMY. FURNISH METEOROLOGICAL SERVICES TO ARMY RDTE ACTIVITIES. PROVIDE ADMIN AND LOGISTICAL SUPPORT TO OTHER ECOM ELEMENTS AT WHITE SANDS MISSILE RANGE, NEW MEXICO

...CURRENT IMPORTANT PROGRAMS

METEOROLOGICAL EQUIPMENT
AUTOMATIC METEOROLOGICAL SYSTEM
REMOTE ATMOSPHERIC SENSING
METEOROLOGICAL SATELLITES
METEOROLOGICAL SUPPORT TO RDTE ACTIVITIES

...FUNCTIONS/EQUIPMENT/CAPABILITIES

METEOROLOGICAL RESEARCH FACILITY AND CAPABILITY
WIND TUNNEL FACILITY, LOW SPEED
ATMOSPHERIC PHYSICS RESEARCH FACILITY AND CAPABILITY
UPPER ATMOSPHERE RESEARCH AND SOUNDING ROCKET FACILITY AND CAPABILITY
ION MASS SPECTROMETER SYSTEM
METEOROLOGICAL SOUNDING ROCKET FACILITIES-N.M.,UTAH, ALASKA, CANAL ZONE
REMOTE ATMOSPHERIC SENSING FIELD RESEARCH FACILITY
ATMOSPHERIC SPECTROSCOPY-LASER PROPAGATION FACILITY
METEOROLOGICAL RDTE SUPPORT FACILITIES - ALASKA TO CANAL ZONE
METEOROLOGICAL INSTRUMENTATION TEST, MAINTENANCE, CALIBRATION FACILITY
FACILITY FOR SONIC OBSERVATION OF TRAJECTORY AND IMPACT OF MISSILES
COLOR DENSITOMETER FOR ANALYSIS OF METEOROLOGICAL SATELLITE DATA

INSTALLATION AVIATION SYSTEMS TEST ACTIVITY

EDWARDS AFB, CAL.

C.O. COL WALTER A. RATCLIFF

TECH. DIR. MR. JAMES S. HAYDEN

PROGRAM	PROGRAM DATA BY FISCAL YEAR (MILLION \$)	
	1974 (ACTUAL)	1975 (ACT + EST)
TOTAL RDT&E	3.273	3.196
TOTAL PROCUREMENT	0.000	0.000
TOTAL O&M	0.000	0.000
TOTAL UTHER	0.958	0.920
TOTAL ANNUAL LAB	4.231	4.116
TOTAL INHOUSE	4.143	4.116
TOTAL INHOUSE RDT&E	3.273	3.196
ANNUAL OPERATING COST	0.180	1.100

PERSONNEL	PERSONNEL DATA (END OF FY 1974)			
	AUTHORIZED STRENGTH	TOTAL PHDS	TOTAL PROF	NON- PROF
MILITARY	60	0	29	31
CIVILIAN	103	0	27	76
TOTAL	163	0	56	107

ACRES	SPACE AND PROPERTY				COST (MILLION \$)		
	SPACE (THOUSANDS OF SQUARE FEET)			TOTAL	REAL PROP	EQUIP	
	LAB	ADMIN	OTHER				
19	4.280	32.830	96.480	135.590	3.614	4.575	

...MISSION

PLAN AND CONDUCT AIRWORTHINESS QUALIFICATION FLIGHT TESTS OF AIR VEHICLES DEVELOPED AND/OR PROCURED AIRWORTHINESS EVALUATIONS OF VEHICLES PROPOSED FOR ARMY APPLICATION INCORPORATE ADVANCED CONCEPTS PRODUCE DATA ON AIRCRAFT PERFORMANCE STABILITY AND CONTROL CONDUCT TEST PILOT COURSE

...CURRENT IMPORTANT PROGRAMS

HELICOPTER ICING TESTS UH-1 CH-47 AH-1G AH-1Q
HELICOPTER IRANIAN MODEL 214A AIRWORTHINESS AND FLT CHARACTERISTIC EVAL
HELICOPTER HEAVY LIFT AIRFRAME TEST
HELICOPTER UTTAS DT II TESTS
AAH TESTING

...FUNCTIONS/EQUIPMENT/CAPABILITIES

1-C47 1-OV1C 1-T28B 2-F51D 1-T42 2-UH1H 2-NUH1M 1-CH47C & 5 TEST ACFT
AIRCRAFT MAINT. CAPABILITY
AIRCRAFT MODIFICATION CAPABILITY
1 EMR COMPUTER WITH TELEMTRY
3 AIRBORNE DATA ACQUISITION SYSTEMS
2 REMOTE GROUND STATIONS WITH COMPUTER AND TELEMTRY CAPABILITY
LIMITED INSTRUMENT CALIBRATION CAPABILITY
12 MILLIKEN CAMERAS, VARIOUS SIZES
3 FAIRCHILD FLIGHT ANALIZERS
1 MAGNETIC TAPE SELECTRIC COMPOSER SYSTEM
2CANON 16MM MOTION PICTURE CAMERAS
2 HEADLINERS, MODELS 820 & 860

INSTALLATION AVIATION TEST BOARD

FT. RUCKER, AL.

PRES. COL ROBERT S. KELLAR

TECH. ADV. DR. JAMES S. KISHI

PROGRAM	PROGRAM DATA BY FISCAL YEAR (MILLION \$)	
	1974 (ACTUAL)	1975 (ACT + EST)
TOTAL RDT&E	6.418	6.789
TOTAL PROCUREMENT	0.064	0.032
TOTAL U&M	0.415	0.890
TOTAL OTHER	2.483	2.519
TOTAL ANNUAL LAB	9.380	10.230
TOTAL INHOUSE	6.774	7.385
TOTAL INHOUSE RDT&E	3.812	3.944
ANNUAL OPERATING COST	3.323	3.098

PERSONNEL	PERSONNEL DATA (END OF FY 1974)				NON-PROF
	AUTHORIZED STRENGTH	TOTAL PHDS	TOTAL PROF		
MILITARY	208	0	40		168
CIVILIAN	135	1	10		125
TOTAL	343	1	50		293

ACRES	SPACE AND PROPERTY SPACE (THOUSANDS OF SQUARE FEET)			COST (MILLION \$)		
	LAB	ADMIN	OTHER	TOTAL	REAL PROP	EQUIP
1189	2.440	50.584	177.364	230.388	2.623	19.286

...MISSION

PLAN, CONDUCT, REPORT ON DTI,DTII,DTIII,SVC PHASE & OTHER DEV TYPE TESTS OF AC,AC COMP, SUB-SYS & ANCILLARY EQUIP. PARTICIPATE IN DTII ENG PHASE & DTIII TESTS AS DIR. ADVISE PROPONENT AGENCIES DURING THE DEVELOPMENT OF AC SYSTEMS.

...CURRENT IMPORTANT PROGRAMS

IR PROJECTS
ICAS COLD WEA
HOT BRICK PROGRAMS
AIDAPS PROJECT
TACTICAL LANDING SYS

...FUNCTIONS/EQUIPMENT/CAPABILITIES

HAVE REQUIRED FACILITIES & CAPABILITIES TO PERFORM STATED MSN TO REVW & COMMENT ON QMDO'S M&L NEEDS, ROC'S, MAINT PACKAGES & TO ASSIST IN REVIEWING MIL SPECS. ABILITY TO EVALUATE & RECOMMEND ON SAFETY & SUITABILITY OF MTLs FOR ARMY USE. TO SUPPORT FIELD RESEARCH, STUDIES, TESTS & OPERATIONS OF CONTROL PROGRAMS IN METHODOLOGY TO ASSURE PROPER TESTING & REPORTING IN CURRENT & FUTURE YRS. ABLE TO ASSIST IN PREPARING TRAINING LITERATURE & SELECTION OF TRAINING AIDS, TO RECOMMEND TO CG TECOM THRU ESTABLISHED PROCEDURES, R&D PROJECTS DESIGNATED TO IMPROVE TECOM TEST & EVALUATION

INSTALLATION AVIONICS LABORATORY

EATONTOWN, N.J.

C.O. LTC LEE HAND

TECH. DIR. MR. THEODORE SUETA

PROGRAM	PROGRAM DATA BY FISCAL YEAR (MILLION \$)	
	1974 (ACTUAL)	1975 (ACT + EST)
TOTAL RDT&E	12.931	11.516
TOTAL PROCUREMENT	3.745	3.564
TOTAL O&M	0.608	0.420
TOTAL OTHER	0.755	0.479
TOTAL ANNUAL LAB	18.039	15.979
TOTAL INHOUSE	13.658	12.249
TOTAL INHOUSE RDT&E	9.244	8.924
ANNUAL OPERATING COST	4.389	4.743

PERSONNEL	PERSONNEL DATA (END OF FY 1974)			
	AUTHORIZED STRENGTH	TOTAL PHDS	TOTAL PROF	NON- PROF
MILITARY	13	0	15	2
CIVILIAN	255	5	151	104
TOTAL	268	5	166	106

ACRES	SPACE AND PROPERTY SPACE (THOUSANDS OF SQUARE FEET)			COST (MILLION \$)		
	LAB	ADMIN	OTHER	TOTAL	REAL PROP	EQUIP
9	43.500	7.896	0.000	51.396	14.900	11.548

...MISSION

APPLIED RES DEV AND ENGRG IN ARMY AVIATION ELECTRONICS INCLUDING
NAVIGATION LANDING COMMUNICATIONS ENVIRONMENT SENSING CONTROL THEORY
AIRCRAFT ANTENNAS INSTRUMENTATION GROUND AND AIRBORNE SYSTEMS
INSTALLATION AND TEST SYSTEMS ENGINEERING

...CURRENT IMPORTANT PROGRAMS

LOW LEVEL NIGHT OPERATIONS FOR ARMY AIRCRAFT
MICROWAVE LANDING SYSTEM
ADVANCED AVIONICS SYSTEMS ANALYSIS
ADVANCED AVIONICS SYSTEMS ENGINEERING
ABSOLUTE ALTIMETER

...FUNCTIONS/EQUIPMENT/CAPABILITIES

TACTICAL AVIONICS SYSTEMS SIMULATOR
AIRCRAFT ANTENNA TEST FACILITY
FIXED BASE COCKPIT SIMULATOR UH-1
INSTRUMENTED C-47 AIRCRAFT FOR TESTING NAVIGATION SYSTEMS
GYRO TEST FACILITY
MOVING EARTH SIMULATOR FOR DOPPLER NAVIGATION TESTING
ELECTROMAGNETIC RADIATION TEST FACILITY

INSTALLATION BALLISTICS RESEARCH LABORATORIES

ABERDEEN PROV GR, MD.

DIRECTOR ROBERT J EICHELBERGER DEPUTY DIRECTOR COL THOMAS R OSTROM

PROGRAM	PROGRAM DATA BY FISCAL YEAR (MILLION \$)	
	1974 (ACTUAL)	1975 (ACT + EST)
TOTAL RDT&E	39.481	31.214
TOTAL PROCUREMENT	0.160	0.000
TOTAL O&M	0.478	0.120
TOTAL OTHER	0.025	0.000
TOTAL ANNUAL LAB	40.144	31.334
TOTAL INHOUSE	24.484	22.679
TOTAL INHOUSE RDT&E	23.821	22.559
ANNUAL OPERATING COST	8.534	9.691

PERSONNEL	PERSONNEL DATA (END OF FY 1974)				NON- PROF
	AUTHORIZED STRENGTH	TOTAL PHDS	TOTAL PROF		
MILITARY	66	7	52		14
CIVILIAN	817	101	435		382
TOTAL	883	108	487		396

ACRES	SPACE AND PROPERTY			COST (MILLION \$)		
	SPACE (THOUSANDS OF SQUARE FEET)			TOTAL	REAL PROP	EQUIP
	LAB	ADMIN	OTHER			
3380	673.000	6.000	3.000	682.000	58.263	34.596

...MISSION
CONDUCT RES AND EXPL DEVL IN SCIENCES/TECHNOLOGIES NECESSARY FOR
CONCEIVING DESIGNING DEVELOPING AND EVALUATING WEAPONS SYSTEMS
PURSUE ORIENTED FUND RESEARCH IN PHYSICS CHEM MATH ENGR
INVESTIGATE PERTINENT BRANCHES OF MILITARY SCIENCE AND TECHNOLOGIES

...CURRENT IMPORTANT PROGRAMS
MATHEMATICAL MODELS OF GUN PROPELLANT SYSTEMS
CONVENTIONAL WARHEAD EFFECTS
WARHEAD DYNAMICS FRAGMENTATION-EXPLOSIVE METAL INTERACTION
REFINED FLIGHT DYNAMICS OF PROJECTILES AND MISSILES
VULNERABILITY GROUND AND AIRBORNE TARGETS-OFFENSIVE/DEFENSIVE MEASURES

...FUNCTIONS/EQUIPMENT/CAPABILITIES
SUPERSONIC AND HYPERSONIC WIND TUNNELS/TRANSONIC RANGE
EXPLOSIVE BLAST CHAMBERS AND HIGH ALTITUDE BLAST SPHERE
SHOCK TUBES-SIMULATION OF NUCLEAR BLAST/CHEMICAL REACTION RATE
PULSE RADIATION FACILITY
EXPLOSIVE FIELD TEST FACILITIES
HIGH SPEED MOTION PHOTOGRAPHY SCHLIEREN INTERFEROMETRY
ELECTRON MICROSCOPE-ELECTRON SPIN RESONANCE-NUCLEAR MAGNETIC RESEARCH
ELECTROMAGNETIC RADIATION RANGES
ANALOG COMPUTER FOR SIMULATION OF DYNAMICS OF GUN AND RIFLE
PROPULSION AND COMBUSTION CHAMBERS
LASERS FOR PLASMA PROPAGATION AND SIGNATURES
AFTER GLOW REACTION CHAMBER-UPPER ATMOSPHERE CHEM REACTION RATE

INSTALLATION BENET WEAPONS LABORATORY

WATERVLIET, N.Y.

C.O. COL RICHARD H. SAWYER

TECH. DIR. DR. ROBERT E. WEIGLE

PROGRAM	PROGRAM DATA BY FISCAL YEAR (MILLION \$)	
	1974	1975
	(ACTUAL)	(ACT + EST)
TOTAL RDT&E	12.295	13.853
TOTAL PROCUREMENT	8.723	3.669
TOTAL O&M	1.956	1.210
TOTAL OTHER	0.197	0.078
TOTAL ANNUAL LAB	23.171	18.810
TOTAL INHOUSE	14.839	13.795
TOTAL INHOUSE RDT&E	8.616	8.838
ANNUAL OPERATING COST	0.000	4.295

PERSONNEL	PERSONNEL DATA (END OF FY 1974)				NON-PROF
	AUTHORIZED STRENGTH	TOTAL PHOS	TOTAL PROF		
MILITARY	7	2	6		1
CIVILIAN	393	43	177		216
TOTAL	400	45	183		217

ACRES	SPACE AND PROPERTY			COST (MILLION \$)		
	SPACE (THOUSANDS OF SQUARE FEET)			TOTAL	REAL PROP	EQUIP
	LAB	ADMIN	OTHER			
4	167.463	24.600	7.489	199.552	2.817	4.761

...MISSION

DESIGN & DEV OF ARTY, TANK, AIR DEFENSE & SECONDARY CANNON ABOVE 20MM
 SYS MGMT, DESIGN & DEV OF MORTARS & RECOILLESS RIFLE SYSTEMS
 ARMCON LEAD LAB FOR BARREL & CANNON SUPT & SUPT PHYS & ENGRNG SCIENCES TECH
 BASIC & APPL. RESEARCH & MFG TECH TO SUPT THE DEVELOPMENT MISSION

...CURRENT IMPORTANT PROGRAMS

SYS MGMT LT WT CO MORTAR SYS, DEV OF 60MM MORTAR XM224 FOR LWCMS
 DESIGN & DEV OF 105MM HOW XM205 FOR 105MM TOWED HOW S.R. XM204
 DESIGN & DEV OF CANNON 155MM HOW XM199 FOR 155MM HOW XM198 ON TUBES
 FATIGUE CORRELATION OF RELATIONSHIP BETWEEN LAB CYCLING & FIRING
 ULTRA HIGH PRESSURE RESEARCH FOR SYNTHESIS OF NEW MATERIALS APPLICATIONS

...FUNCTIONS/EQUIPMENT/CAPABILITIES

UNIQUE FACILITIES & CAPABILITIES INCLUDE HI PRESSURE METALLURGY WITH 2-80K HYDROSTATIC, 1-150K HYDROSTATIC, 1-200K STATIC, 1-DUAL PRES (100K & 60K)
 HYDRAULIC FATIGUE SYSTEM & 20-30K BAR FLUID EXTRUSION PRESS--FULL SCALE
 WEAPON COMPONENTS DYNAMIC TESTER BY PRESSURE/PULSE SIMULATED FIRING LOAD
 DIM. STRESS ANALYSIS PHOTOELASTICITY SYS-ENCLOSED PROOF RANGE-40MM MAX-
 ELECTRON MICROSCOPE-2.3 A RESOLUTION--SEM MICROSCOPE WITH 100 A RES.
 CRYOGENIC (4 K) 600K BAR HI PRESS SYS--1200 LB-1500 G HI-PERF SHOCK TEST
 HI-TEMP VAC FCE-3000 C MAX, TIME OF FLIGHT MASS SPEC, 2000 GAUSS MAGNET--
 ELECTROPLATE, ANODIZE & TITANIUM HARD COAT PROCESS, ELECTRON MICROPROBE ANAL
 IBM 360-44 COMPUTER W/ GRAPHIC & INTEGRAPHIC TERMINAL SYS, AUTOMATED XRAY
 ACQUISITION-ANAL-SYS, FILAMENT WOUND METAL MATRIX PLASMA SPRAY ASSY.
 ELECTRONICALLY CONTROLLED PROGRAMMABLE ORGANIC COMPOSITE FILAMENT WINDER

INSTALLATION COLD REGIONS R&E LABORATORIES

HANOVER, N.H.

C.O. AND DIR. COL ROBERT L. CROSBY TECH. DIR. DR. D.R. FREITAG

PROGRAM	PROGRAM DATA BY FISCAL YEAR (MILLION \$)	
	1974 (ACTUAL)	1975 (ACT + EST)
TOTAL RDT&E	3.978	3.749
TOTAL PROCUREMENT	0.000	0.000
TOTAL O&M	0.277	0.281
TOTAL OTHER	3.608	4.359
TOTAL ANNUAL LAB	7.863	8.389
TOTAL INHOUSE	7.014	7.370
TOTAL INHOUSE RDT&E	3.461	3.491
ANNUAL OPERATING COST	1.782	1.800

PERSONNEL	PERSONNEL DATA (END OF FY 1974)			
	AUTHORIZED STRENGTH	TOTAL PHDS	TOTAL PROF	NON- PROF
MILITARY	42	1	22	20
CIVILIAN	244	29	86	158
TOTAL	286	30	108	178

ACRES	SPACE AND PROPERTY			COST (MILLION \$)		
	SPACE (THOUSANDS OF SQUARE FEET)			TOTAL	REAL PROP	EQUIP
	LAB	ADMIN	OTHER			
24	17.230	6.168	97.646	121.044	4.072	5.282

...MISSION

AS THE ARMY LABORATORY FOR SCIENCE AND TECHNOLOGY IN COLD REGIONS, USACRREL CONDUCTS AND COORDINATES RESEARCH AND SURVEILLANCE OF TECHNOLOGY APPLICABLE TO THE ARMY'S NEEDS IN THOSE GEOGRAPHIC AREAS OF THE WORLD WHERE COLD PRESENTS A SEVERE PROBLEM AT LEAST ONE YEAR IN TEN

...CURRENT IMPORTANT PROGRAMS

ENGINEERING IN COLD ENVIRONMENTS
ENVIRONMENTAL QUALITY FOR COLD REGIONS - MILITARY CONSTRUCTION
RESEARCH IN MILITARY ENGINEERING AND CONSTRUCTION
COLD REGIONS TERRESTRIAL APPLIED RESEARCH IN SUPPORT OF MOBILITY
MOBILITY AND ENVIRONMENTAL RESEARCH

...FUNCTIONS/EQUIPMENT/CAPABILITIES

THE MAIN LABORATORY AT USACRREL CONTAINS 24 COLD LABS (WHICH CAN BE OPERATED TO -58), SPECIAL TESTING APPARATUS FOR FROZEN MATERIALS, A CHEMICAL LAB, AN ELECTRON MICROSCOPE LAB, A ROCK MECHANICS LAB, A SOILS PROCESSING LAB, AND A SPRAY IRRIGATION TEST FACILITY. FIELD WORK SUPPORT IN ALASKA IS PROVIDED BY A FIELD STATION AT FAIRBANKS. REPRESENTATIVE AREAS OF COMPETENCE AMONG USACRREL SCIENTISTS AND ENGINEERS INCLUDE BIOLOGY, BIOCHEMISTRY, METEOROLOGY, CHEMICAL ENGINEERING, CIVIL ENGINEERING, MARINE ENGINEERING, MECHANICAL ENGINEERING, GEOLOGY, SANITARY ENGINEERING, ELECTRONICS, ELECTRICAL ENGINEERING, PHYSICS, CHEMISTRY, HYDROLOGY, AND GEOPHYSICS.

INSTALLATION COMBAT SURVEILLANCE & TGT ACQUISITION LABS FT. MONMOUTH, N.J.

ACTING DIR. MR. HERBERT GOLDWAG

PROGRAM	PROGRAM DATA BY FISCAL YEAR (MILLION \$)	
	1974 (ACTUAL)	1975 (ACT + EST)
TOTAL RDT&E	31.416	26.322
TOTAL PROCUREMENT	0.000	0.000
TOTAL C&M	0.000	0.000
TOTAL OTHER	0.000	0.000
TOTAL ANNUAL LAB	31.416	26.322
TOTAL INHOUSE	14.700	13.778
TOTAL INHOUSE RDT&E	14.700	13.778
ANNUAL OPERATING CUST	4.350	4.500

PERSONNEL	PERSONNEL DATA (END OF FY 1974)			
	AUTHORIZED STRENGTH	TOTAL PHDS	TOTAL PROF	NON- PROF
MILITARY	25	0	23	2
CIVILIAN	319	12	196	123
TOTAL	344	12	219	125

ACRES	SPACE AND PROPERTY			COST (MILLION \$)		
	LAB	ADMIN	OTHER	TOTAL	REAL PROP	EQUIP
0	114.351	5.075	11.571	130.997	0.000	5.000

...MISSION

DO R&D OF EQUIPMENT FOR COMBAT SURVEILLANCE, TARGET ACQUISITION, IFF & RADIOLOGICAL SURVEY, APPLYING TECHNOLOGY IN RADAR, ELECTRO-OPTICS, PARTICULARLY LASERS, PHOTOGRAPHY, REMOTE SENSING, ACOUSTICS, RADIATION DETECTION AND MEASUREMENT, & IFF. ACT AS AMC LEAD LAB ON LOW-ENERGY LASERS

...CURRENT IMPORTANT PROGRAMS

ADV DEV AND SUPPORTING TECHNOLOGY FOR ARTILLERY LOCATING RADAR AN/TPQ-37
ENGR DEV OF MORTAR LOCATING RADAR SET AN/TPQ-36
ENGR DEV OF LASER DESIGNATOR TRACKER SYSTEM AN/UAS-8
ENGR DEV OF LIGHT WEIGHT SURVEILLANCE RADAR AN/PPS-15
ENGR DEV OF HANDHELD LASER RANGEFINDER AN/GVS-5

...FUNCTIONS/EQUIPMENT/CAPABILITIES

PHOTO PROCESSING, OPTICAL TEST, LENS RESOLUTION TEST PATTERN FACILITIES (FAC), INCL DARK ROOMS, CHEM LABS. RADAR TECHNIQUES DEV FAC, INCL MICROWAVE DARK ROOM, ANTENNA PATTERN & TEST RANGE, 65 FOOT RADAR TEST PLATFORM OUTDOOR AND INDOOR RANGES INSTRUMENTED FROM 30 MHZ TO 70 GHZ. MOBILE SPECTRAL AND TIME DISTRIBUTION MEASUREMENT FAC GOOD FROM 2900A TO INTERMEDIATE. OPTICS FACILITY FOR MEASURING DETECTIVITY OF ELEMENTS, OUTPUT OF SOURCES, TRANSMISSION CHARACTERISTICS. LASER TEST AND MEASUREMENT FAC FOR LASER SYSTEM COMPONENTS. RADAR INSTRUMENTATION FAC CAPABLE OF TRACKING X-BAND RADAR AND COLLECTING AND RECORDING POSITION, VELOCITY AND SIGNAL STRENGTH, ALSO HAS SHORT RANGE SEARCH CAPABILITY.

INSTALLATION COMMUNICATIONS ADP LABORATORY

FT. MONMOUTH, N.J.

C.O. AND DIR. COL D.R. LASHER

DEP. DIR. MR. R. RIEHS

PROGRAM	PROGRAM DATA BY FISCAL YEAR (MILLION \$)	
	1974 (ACTUAL)	1975 (ACT + EST)
TOTAL RDT&E	17.226	14.324
TOTAL PROCUREMENT	0.000	0.000
TOTAL O&M	0.300	0.284
TOTAL OTHER	1.625	4.210
TOTAL ANNUAL LAB	19.151	18.818
TOTAL INHOUSE	14.046	15.893
TOTAL INHOUSE RDT&E	12.121	12.500
ANNUAL OPERATING COST	0.000	0.000

PERSONNEL	PERSONNEL DATA (END OF FY 1974)			
	AUTHORIZED STRENGTH	TOTAL PHDS	TOTAL PROF	NON- PROF
MILITARY	11	2	8	3
CIVILIAN	412	19	266	146
TOTAL	423	21	274	149

ACRES	SPACE AND PROPERTY SPACE (THOUSANDS OF SQUARE FEET)			COST (MILLION \$)		
	LAB	ADMIN	OTHER	TOTAL	REAL PROP	EQUIP
0	37.445	43.360	0.000	80.805	0.000	10.300

...MISSION

TO PERFORM R&D ACTIVITIES RELATED COMMUNICATIONS AND ADP EQUIPMENTS AND SYSTEMS WHICH INCLUDE THE FIELDS OF RADIO, TELEPHONIC, TELEGRAPHIC AND FACSIMILE COMMUNICATIONS ADP TECHNIQUES AND DATA STORAGE COMMUNICATION SECURITY, ELECTROMAGNETIC COMPATIBILITY AND COMMUNICATING PROCESSES

...CURRENT IMPORTANT PROGRAMS

TACTICAL RADIO COMMUNICATIONS SYSTEM

RADIO SET AN/PKC-70

ATACS TSQ-85TTC-38 TTC-39 AN/UGC-72,73,74,75,76 TD-1065 TD-1069

ARTADS TACFIRE TOS

ULTRA RELIABLE RADIO

...FUNCTIONS/EQUIPMENT/CAPABILITIES

LAB SPACES TEST INSTRUMENTS AND SPECIALIZED ELECTRONIC MECHANICAL AND OPTICAL EQUIPMENT TO PERFORM DESIGN FABRICATION AND TESTING OF ELECTRONIC CIRCUITS COMPONENTS EQUIPMENTS IN DISPLAY PRINTING SPEECH NARROW AND WIDE BAND RADIOS FROM LOW TO LIGHT FREQUENCY RANGE CONVENTIONAL AND ADVANCED MULTIPLEXING SWITCHING ERROR DETECTION AND CODING ANTENNA AND PROPAGATION TECHNOLOGIES SMALL SCALE COMPUTERS TO TEST AND EVALUATE ADVANCED COMPUTER CONCEPTS AND SUBSYSTEM SOFTWARE AND HARDWARE FIXED AND MOBILE TACTICAL RADIO MODEM MULTIPLEXING SWITCHING EQUIPMENTS TO SIMULATE FIELD CONFIGURATIONS FOR TEST DATA COLLECTION AND EVALUATION OF EXISTING EQUIPMENT PROPAGATION INTERFACE PROBLEMS ANTENNA TEST FACILITY AND SHIELDED ROOMS FOR MEASURING OF AND ESTABLISHING DOD STANDARDS FOR ELECTROMAGNETIC COMPATIBILITY RADIATION AND PROPAGATION

INSTALLATION CONSTRUCTION ENGINEERING RESEARCH LABORATORY URBANA, IL.

DIR. COL M.O. REMUS

DEP. DIR. MR. R.L. SHAFFER

PROGRAM	PROGRAM DATA BY FISCAL YEAR (MILLION \$)	
	1974 (ACTUAL)	1975 (ACT + EST)
TOTAL RDT&E	5.157	6.457
TOTAL PROCUREMENT	0.000	0.000
TOTAL U&M	0.454	0.373
TOTAL OTHER	0.104	0.109
TOTAL ANNUAL LAB	5.715	6.939
TOTAL INHOUSE	3.842	4.978
TOTAL INHOUSE RDT&E	3.370	4.550
ANNUAL OPERATING COST	1.144	1.600

PERSONNEL	PERSONNEL DATA (END OF FY 1974)			
	AUTHORIZED STRENGTH	TOTAL PHDS	TOTAL PROF	NON- PROF
MILITARY	5	0	1	4
CIVILIAN	303	52	151	152
TOTAL	308	52	152	156

ACRES	SPACE AND PROPERTY				COST (MILLION \$)	
	LAB	ADMIN	OTHER	TOTAL	REAL PROP	EQUIP
30	74.761	33.759	0.000	108.520	3.851	2.388

...MISSION

PLAN, EXECUTE AND EVALUATE RESEARCH TO OBTAIN THE BEST COMBINATION OF ENGINEERING, DESIGN, CONSTRUCTION, OPERATION AND MAINTENANCE TO PROVIDE FACILITIES FOR THE MILITARY ESTABLISHMENT AND OTHER AGENCIES AT LEAST COST AND DISSEMINATE THE RESEARCH RESULTS.

...CURRENT IMPORTANT PROGRAMS

DEVELOPMENT OF MATERIALS FOR PERMANENT MILITARY CONSTRUCTION
ENVIRONMENT QUALITY FOR MILITARY CONSTRUCTION AND FACILITIES OPERATION
INDUSTRIALIZED BUILDINGS FOR MILITARY CONSTRUCTION APPLICATIONS
DEVELOPMENT OF IMPROVED DESIGN, CONSTRUCTION AND MANAGEMENT TECHNIQUES
DEVELOPMENT OF HABITABILITY DESIGN CRITERIA FOR MILITARY FACILITIES

...FUNCTIONS/EQUIPMENT/CAPABILITIES

CONTROLLED ENVIRONMENT CHAMBER, 1-MILLION POUND CLOSED-LOOP MATERIALS TEST SYSTEM, SCANNING ELECTRON MICROSCOPE, 10MW RESISTANCE LOAD BANK AND INSTRUMENTATION, X-RAY EQUIPMENT, SEMI-AUTOMATIC WELDING EQUIPMENT, BIAXIAL SHOCK TEST MACHINE, NON-DESTRUCTIVE TESTING FACILITY, VACUUM INDUCTION FURNACES, METALLOGRAPHIC SAMPLE PREPARATION AND RESEARCH METALLOGRAPH X-RAY DIFFRACTION AND VACUUM SPECTROSCOPY SYSTEM, DYNAMIC TENSION ANALYSIS SYSTEM, DIGITAL RECORDING AND ANALYSIS EQUIPMENT
FACILITIES CAPABILITIES INCLUDE SYSTEMS BUILDING METHODS AND TECHNIQUES, COMPUTER BASED DESIGN AND CONSTRUCTION MANAGEMENT TECHNIQUES, HARDENED FACILITIES ANALYSIS, ENVIRONMENTAL QUALITY MANAGEMENT, POLLUTION CONTROL AND ABATEMENT, MILITARY HOUSING SYSTEMS, POWER GENERATION SYSTEMS, UTILITIES SYSTEMS ANALYSIS AND EVALUATION, AND ARCHITECTURAL RESEARCH.

INSTALLATION DESERET TEST CENTER (LABS)

DUGWAY, UTAH

C.O. COL ADALBERT E. TOEPEL, JR.

SCIENTIFIC DIR. MR. M.A. ROTHENBERG

PROGRAM	PROGRAM DATA BY FISCAL YEAR (MILLION \$)	
	1974 (ACTUAL)	1975 (ACT + EST)
TOTAL RDT&E	14.236	13.369
TOTAL PROCUREMENT	0.471	0.807
TOTAL O&M	1.035	1.353
TOTAL OTHER	4.045	4.371
TOTAL ANNUAL LAB	19.787	19.900
TOTAL INHOUSE	17.119	17.143
TOTAL INHOUSE RDT&E	12.109	10.952
ANNUAL OPERATING COST	10.092	11.594

PERSONNEL	PERSONNEL DATA (END OF FY 1974)			
	AUTHORIZED STRENGTH	TOTAL PHDS	TOTAL PROF	NON- PROF
MILITARY	186	15	60	126
CIVILIAN	754	20	122	632
TOTAL	940	35	182	758

ACRES	SPACE AND PROPERTY			CDST (MILLION \$)		
	LAB	ADMIN	OTHER	TOTAL	REAL PROP	EQUIP
840910	192.466	171.764	1550.757	1914.987	49.551	17.272

...MISSION

DPG PLANS & CONDUCTS APPROVED TESTS TO ASSESS THE MILITARY VALUE OF CML WEAPONS & CML-BIO DEF SYS. TESTS SPT R&D & PROVIDE A BASIS FOR DEVELOPMENT OF NEW OPERATIONAL & LOGISTICAL CONCEPTS FOR EMPLOYMENT OF TESTED SYS. TESTS ARE RESPONSIVE TO USER REQUIREMENTS.

...CURRENT IMPORTANT PROGRAMS

CONDUCTS SERVICE DEV CML CML-BIO DEFENSE TEST PROGRAMS
CONDUCTS R & D & LAB INVESTIGATIONS NECESSARY TO SUPPORT MISSION
CONDUCTS JT OP CML & CML-BIO DEFENSE TESTS FOR CINCS AND SERVICES
CONDUCTS PROG TO SUP ARMY POLL ABATEMENT SUP SHIELD & DEMIL OPERATIONS
CONDUCTS ECOLOGICAL EPIDEMIOLOGICAL & TOXICOLOGICAL SURVL OF DPG AREA

...FUNCTIONS/EQUIPMENT/CAPABILITIES

INST GRIDS FOR CML CML-BIO TESTS&ARTY RG FOR CONVL & CML METAL PARTS, BALLISTIC & DISEM TESTS, WITH FIELD SMPL, PREC MASS ANAL, MET (AUTO DATA ACQ & MESOMET NETWK) SYS. TSP (RADAR SLAVE PHOTO) SYS, PHYS & ENVIRON TEST FAC (MIL SPEC 810A, B) CHAMBERS FOR TOTAL AGENT CONTAINMENT, EXPLD SHIELDING PROPAGATION & OVERPRESSURE MEASUREMENTS. OPNS SPTD BY MET RSCH ON TRANS DIFFUSION OF CLOUDS, CML, LIFE SCI TECHN, ECDL SURVL OF DPG, CAPBL FOR PLANNING ANAL, EVAL OF TESTS, OPNS RSCH, LABS EQUIPD FOR WIDE RNG OF CML MICROBIOL, TOXICOL, IMMUNOL, ECOL, EPIDEMIO, POLLUT CNTL STUDIES, BLDG FOR X ANIMALS (LG, SM, DOMESTIC WILD), CAPBL FOR PRD BIOD SIMUL AG, TECHN & MASS ASSAY OF FLUORESCENT AIR TRACERS, DPG ALSO HAS INST CALBR & METAL SHOPS & EXTENSVE COMM & RG SAFETY SYS. OUTSTANDING CHARACTERISTICS ARE LARGE RESTRICTED LAND AREA AND AIR SPACE

INSTALLATION EDGEWOOD ARSENAL LABORATORIES

EDGEWOOD ARSENAL, MD.

C.O. COL KENNETH L. STAHL

TECH. DIR. DR. BENJAMIN L. HARRIS

PROGRAM	PROGRAM DATA BY FISCAL YEAR (MILLION \$)	
	1974 (ACTUAL)	1975 (ACT + EST)
TOTAL RDT&E	35.549	33.697
TOTAL PROCUREMENT	0.000	0.000
TOTAL O&M	4.337	5.939
TOTAL OTHER	1.700	1.876
TOTAL ANNUAL LAB	41.586	41.512
TOTAL INHOUSE	37.168	37.133
TOTAL INHOUSE RDT&E	31.131	29.318
ANNUAL OPERATING COST	15.073	15.163

PERSONNEL	PERSONNEL DATA (END OF FY 1974)			
	AUTHORIZED STRENGTH	TOTAL PHDS	TOTAL PROF	NON- PROF
MILITARY	173	35	94	79
CIVILIAN	898	60	473	425
TOTAL	1071	95	567	504

ACRES	SPACE AND PROPERTY			COST (MILLION \$)		
	SPACE (THOUSANDS OF SQUARE FEET)			TOTAL	REAL PROP	EQUIP
	LAB	ADMIN	OTHER			
2000	457.423	89.010	153.390	699.823	16.316	13.496

...MISSION

CLASS II ACTIVITY CONDUCTING A RESEARCH AND DEVELOPMENT MISSION FOR ARMY CHEMICAL MUNITIONS AND DEFENSIVE ITEMS. INCLUDES BASIC RESEARCH AND GENERAL INVESTIGATIONS AS WELL AS EXPLORATORY, ADVANCED AND ENGINEERING DEVELOPMENT OF MATERIAL.

...CURRENT IMPORTANT PROGRAMS

IMMUNO-PROPHYLAXIS AGAINST LETHAL CHEMICAL AGENTS
BIOLOGICAL AND CHEMICAL AGENT ALARM DEVELOPMENT
BINARY LETHAL CHEMICAL AGENT PROJECTILE DEVELOPMENT
NEW PROTECTIVE MASK DEVELOPMENT
DEVELOPMENT OF RING AIR FOIL GRENADE (STING-SOFT)

...FUNCTIONS/EQUIPMENT/CAPABILITIES

CONDUCT DOD RSCH OF ANTIPERC CML AGTS /MGT OF LEAD LAB FOR POL ABATE AND ENVIRON CON TECH /TOX-PHYS : PHARM OF CML COMPOUNDS : ANTIPERS-ANTIMAT
FLAME INCEND : SMOKE AGTS /DA RSCH OF DEF AGAINST CML ATTACK : DISSEM-
DISPERS OF CML MUN /AERODYNAMICS RSCH /INVEST SIMULANTS : TRNG AGTS /
DEV CML AGT PROC-TEST : ASSESS TECH /DEV CIVIL DISTURB-RIOT CONTROL SYS/
INTELLIGENCE EXPLOITATION /DEV PROT EQUIP : WNG-DETECT MAT FOR DEF
AGAINST CML ATTACK : DEV CML AGENT MUNITIONS SYSTEMS.
MAJOR EQUIP IS CONTAINED IN A COMPLEX OF ENGR : LAB AREAS : INCLUDES
CML PILOT PLTS-MUN FILLING-ENGR DESIGN : EXP FAB SHOPS' AERSOL DISSEM
TEST CHAMBERS' PYROTECH MIXING-LOADING : HANDLING FAC' INDOOR BALLISTIC
RANGE' SUBSONIC-SUPERSONIC : TRANSONIC WIND TUNNELS' A COMPLETE CLINICAL
RESEARCH FACILITY : AN ANIMAL BREEDING : HOLDING FACILITY.

INSTALLATION ELECTRONIC PROVING GROUND

FT. HUACHUCA, AR.

C.O. COL EARL D. DOWNING

TECH. DIR. DR. GEORGE E. SCHAFER

PROGRAM	PROGRAM DATA BY FISCAL YEAR (MILLION \$)	
	1974 (ACTUAL)	1975 (ACT + EST)
TOTAL RDT&E	6.307	8.088
TOTAL PROCUREMENT	2.285	1.459
TOTAL O&M	0.669	0.618
TOTAL OTHER	4.091	5.050
TOTAL ANNUAL LAB	13.352	15.215
TOTAL INHOUSE	10.269	9.551
TOTAL INHOUSE RDT&E	3.774	4.549
ANNUAL OPERATING COST	1.594	1.858

PERSONNEL	PERSONNEL DATA (END OF FY 1974)			
	AUTHORIZED STRENGTH	TOTAL PHDS	TOTAL PROF	NON- PROF
MILITARY	252	1	27	225
CIVILIAN	203	2	58	145
TOTAL	455	3	85	370

ACRES	SPACE AND PROPERTY SPACE (THOUSANDS OF SQUARE FEET)			COST (MILLION \$)		
	LAB	ADMIN	OTHER	TOTAL	REAL PROP	EQUIP
42800	0.000	210.249	0.000	210.249	2.417	43.158

...MISSION

OP USAELCT PG INCL EMTF, ECM VUL TEST FAC/SYS TEST FAC. PLAN/CDT/REPT ON EMC, ECM TEST ANAL, TEMPEST DEV TESTS/ANAL. DEV TEST/EVAL/ANAL METH AND SUBQ INST RQMT. DIR/CONT/IMPL LR PLANNING PROGS FOR TEST INST/TEST FAC AND R-D OF INST TO SPT TESTS/EVAL. SPT FLD RSCH OF AMC, DA, DOD AGCYS.

...CURRENT IMPORTANT PROGRAMS

JOINT TACTICAL COMMUNICATIONS PROGRAM /TRI-TAC/.
ELECTROMAGNETIC COMPATIBILITY PROGRAM /EMC/.
REMOTELY MONITORED BATTLEFIELD SENSOR SYSTEM PROGRAM /REMBASS/.
COMSEC TESTING PROGRAM.
JOINT SERVICE INTRUSION DETECTION SYSTEM PROGRAM /J-SIDS/.

...FUNCTIONS/EQUIPMENT/CAPABILITIES

PLAN/CDT/REPT ON DEV TEST II /ENGR PHASE/, ASG DEV TEST II /SVC PHASE/, DEV TEST III, TEMPEST AND OTHER DEV AND DEV TYPE TESTS OF COMM-ELCT AND OPTICAL/ELECTRO-OPTICAL EQUIP AND SYSTEMS. DEV TEST/EVALUATION/ANALYSIS METHODOLOGY AND SUBSEQUENT INSTRUMENTATION REQUIREMENTS. OPERATE AND MAINTAIN INSTRUMENTATION AND FACILITIES TO PROVIDE THE NECESSARY TESTING CAPABILITY. MAINTAIN CAPABILITY FOR, CONDUCT, AND REPORT ON TEMPEST TESTS AND ANALYSES DURING RESEARCH, DEVELOPMENT, TEST, AND EVALUATION CYCLES. DIRECT, CONTROL, AND IMPLEMENT PROGRAMS OF LONG RANGE PLANNING FOR TEST INSTRUMENTATION/TEST FACILITIES AND RESEARCH AND DEVELOPMENT OF INSTRUMENTATION TO SUPPORT TEST AND EVALUATION WITH MISSION RESPONSIBILITIES.

INSTALLATION ELECTRONIC WARFARE LABORATORY

FT. MONMOUTH, N.J.

DIR. MR. CLYDE D. HARDIN

DEP. DIR. LTC W. CLINGEMPEEL

PROGRAM	PROGRAM DATA BY FISCAL YEAR (MILLION \$)	
	1974 (ACTUAL)	1975 (ACT + EST)
TOTAL RDT&E	33.761	44.689
TOTAL PROCUREMENT	0.420	0.202
TOTAL O&M	0.524	0.864
TOTAL OTHER	0.326	0.101
TOTAL ANNUAL LAB	35.031	45.856
TOTAL INHOUSE	13.882	18.775
TOTAL INHOUSE RDT&E	13.238	17.709
ANNUAL OPERATING COST	1.660	2.745

PERSONNEL	PERSONNEL DATA (END OF FY 1974)			
	AUTHORIZED STRENGTH	TOTAL PHDS	TOTAL PROF	NON- PROF
MILITARY	49	0	7	42
CIVILIAN	429	5	207	222
TOTAL	478	5	214	264

ACRES	SPACE AND PROPERTY			COST (MILLION \$)		
	SPACE (THOUSANDS OF SQUARE FEET)			TOTAL	REAL PROP	EQUIP
	LAB	ADMIN	OTHER			
0	139.716	8.023	35.735	183.474	7.042	48.733

...MISSION

RES AND DEV ESSENTIAL TO ELECTRONIC WARFARE AND SELECTED AREAS OF INTEL. ENCOMPASSES APPLD R&D INCL QRC DEV AND SPT IN INTERCEPT,DF,SIG ANALYSIS, JAMMING,DECEPT,SIG INTEL,ACUUST INTEL,AGT EQPT,SECURITY,COUNTER-INTEL, VULNERABILITY AND COUNTER-COUNTERMEASURES.

...CURRENT IMPORTANT PROGRAMS

PROTECTION OF ARMY AIRCRAFT
ASA EW SIGINT PROGRAM-AROF
MISSILE ELECTRONIC WARFARE
PROTECTION OF COMBAT VEHICLES
QRC READINESS

...FUNCTIONS/EQUIPMENT/CAPABILITIES

TECHNICAL FACILITIES-AIRBORNE EW LABORATORY(BIG CROW),IRCM SIMULATOR (US AND FOREIGN MISSILES),IR MEASUREMENTS AND DATA REDUCTION (ISMS,ISIS,ACFT SIGNATURES),MOBILE INSTRUMENTATION FACILITY(LGWCM TESTS),IMDSO PHOTO AND PHYSICAL SECURITY FACILITIES,EW INFORMATION SYSTEM (QRC DATA BASE), WAYSIDE TEST AREA (HF/VHF DF,IONOSONDE),ANTENNA RANGE(MICROWAVE DF, ANTENNA PATTERNS), SANDY HOOK TEST AREA (ELINT MEASUREMENTS),ANECHOIC CHAMBER(MICROWAVE ANTENNA MEASUREMENTS), ELECTRONICALLY SECURE LAB BLDG. SPECIAL CAPABILITIES-CONCEIVE,DESIGN,DEVELOP ECM AGAINST C-E EQUIP. CONCEIVE,DESIGN,DEVELOP NEW EW SYSTEMS FOR SIGINT,ELINT,COMINT,QRC APPLICATIONS. ASSESS VULN TO ECM OF ARMY GUIDED MISSILES. PROVIDE LINEAR,SQUARE ROOT,LOG ANTENNA PATTERN PPRESENTATIONS.

INSTALLATION ELECTRONICS TECHNOLOGY AND DEVICES LAB

FT. MONMOUTH, N.J.

DIR. DR. HANS ZIEGLER

DEP. DIR. MR. S. DANKO

PROGRAM	PROGRAM DATA BY FISCAL YEAR (MILLION \$)	
	1974 (ACTUAL)	1975 (ACT + EST)
TOTAL RDT&E	15.846	16.692
TOTAL PROCUREMENT	0.761	1.391
TOTAL O&M	0.000	0.000
TOTAL OTHER	0.000	0.000
TOTAL ANNUAL LAB	16.607	18.083
TOTAL INHOUSE	11.147	11.331
TOTAL INHOUSE RDT&E	10.458	10.197
ANNUAL OPERATING COST	0.000	0.000

PERSONNEL	PERSONNEL DATA (END OF FY 1974)			
	AUTHORIZED STRENGTH	TOTAL PHDS	TOTAL PROF	NON- PROF
MILITARY	5	3	10	5
CIVILIAN	368	37	229	139
TOTAL	373	40	239	144

ACRES	SPACE AND PROPERTY			COST (MILLION \$)		
	LAB	ADMIN	OTHER	TOTAL	REAL PROP	EQUIP
0	134.393	5.250	3.046	142.689	0.000	13.860

...MISSION

THE LABORATORY PLANS AND EXECUTES A BROAD-BASED R AND D PROGRAM IN AREAS OF ELECTRONICS TECHNOLOGY AND DEVELOPMENT OF ELECTRONIC PARTS, DEVICES, ASSEMBLIES, AND RELATED DISCIPLINES AND TECHNIQUES WHICH ARE COMMON TO ARMY ELECTRONIC EQUIPMENTS AND SYSTEMS.

...CURRENT IMPORTANT PROGRAMS

ADVANCE THE STATE-OF-THE-ART OF IC AND SEMICONDUCTOR TECHNOLOGY
DEVELOPMENT OF POWER SOURCES FOR THE FIELD ARMY
DEVELOPMENT OF FREQUENCY CONTROL AND SIGNAL PROCESSING DEVICES
DEVELOPMENT OF BEAM, PLASMA AND DISPLAY DEVICES
DEVELOPMENT OF TMDE, AND NUCLEAR HARDENING OF ELECTRONIC DEVICES

...FUNCTIONS/EQUIPMENT/CAPABILITIES

FACILITIES ARE AVAILABLE FOR PERFORMING EXPLORATORY RESEARCH IN PHYSICS AND CHEMISTRY OF ELECTRONIC MATERIALS AND FOR CONDUCTING R AND D ON ELECTRONIC PARTS, DEVICES, INTEGRATED CIRCUITS AND ASSEMBLIES. LABS FOR PERFORMING R AND D IN THESE AREAS ARE EQUIPPED WITH THE NORMAL ARRAY OF STANDARD LABORATORY INSTRUMENTATION AND FACILITIES. LABORATORY WORK AREAS INCLUDE FACILITIES FOR THE COMPLETE FABRICATION AND TESTING OF INTEGRATED CKTS AND ASSEMBLIES, SEMICONDUCTOR DEVICES, ELECTRON TUBES, DISPLAY STORAGE AND PICKUP DEVICES. ALSO FOR PRIMARY, SECONDARY, SPECIAL PURPOSE POWER SOURCES, ELECTROCHEMICAL RESEARCH, CHARACTERIZATION OF ELECTRONIC MATERIALS, AND FOR STUDIES OF NUCLEAR RADIATION EFFECTS IN ELECTRONIC MATERIALS.

INSTALLATION ENGINEER TOPOGRAPHIC LABORATORIES

FT. BELVOIR, VA.

C.O. LTC A.B. DEVEREAUX

TECH. DIR. MR. ROBERT P. MACCHIA

PROGRAM	PROGRAM DATA BY FISCAL YEAR (MILLION \$)	
	1974 (ACTUAL)	1975 (ACT + EST)
TOTAL RDT&E	10.056	14.944
TOTAL PROCUREMENT	0.000	0.000
TOTAL O&M	0.075	0.060
TOTAL OTHER	0.193	0.198
TOTAL ANNUAL LAB	10.324	15.202
TOTAL INHOUSE	6.822	6.915
TOTAL INHOUSE RDT&E	6.554	6.657
ANNUAL OPERATING COST	0.617	0.865

PERSONNEL	PERSONNEL DATA (END OF FY 1974)				NON-PROF
	AUTHORIZED STRENGTH	TOTAL PHDS	TOTAL PROF		
MILITARY	20	2	12		8
CIVILIAN	310	21	178		132
TOTAL	330	23	190		140

ACRES	SPACE AND PROPERTY			COST (MILLION \$)		
	LAB	ADMIN	OTHER	TOTAL	REAL PROP	EQUIP
0	55.899	10.828	3.700	70.427	0.000	7.276

...MISSION

ACCOMPLISHES RESEARCH AND DEVELOPMENT OF SYSTEMS, EQUIPMENT, PROCEDURES AND TECHNIQUES APPLICABLE TO MAPPING, SURVEYING, GEODESY, PHOTO-INTERPRETATION AND ANALYSIS OF ENVIRONMENTAL DATA RELEVANT TO MILITARY OPERATIONS AND MATERIEL DEVELOPMENT.

...CURRENT IMPORTANT PROGRAMS

AUTOMATED CARTOGRAPHY
TOPOGRAPHIC SUPPORT SYSTEM (TSS)
POSITION AND AZIMUTH DETERMINING SYSTEM (PADS)
ARMY TERRAIN INFORMATION SYSTEM (ARTINS)
DIGITAL IMAGE PROCESSING

...FUNCTIONS/EQUIPMENT/CAPABILITIES

FACILITIES INCLUDE A CARTOGRAPHIC LABORATORY TO STUDY THE PROBLEMS ASSOCIATED WITH HANDLING DIGITAL CARTOGRAPHIC DATA, A DIGITAL IMAGE PROCESSING LABORATORY TO STUDY THE MANIPULATION AND ENHANCEMENT OF TERRAIN IMAGERY FOR OBTAINING MAPPING AND GEOGRAPHIC DATA, AND A COHERENT OPTICS LABORATORY FOR DETERMINING THE POTENTIAL OF COHERENT OPTICS FOR TOPOGRAPHIC DATA PROCESSING. COMPUTATIONAL EQUIPMENT INCLUDES THE CDC 6400, CDC 1700, AND DIRECT LINKAGE TO THE CDC 6600 AT THE U.S. ARMY MOBILITY EQUIPMENT RESEARCH AND DEVELOPMENT CENTER. OTHER SPECIALIZED EQUIPMENT INCLUDE A COMTAL, DICOMED, PDS DIGITAL AUTOMATED MICRODENSITOMETER, A RECORDING OPTICAL SPECTRUM ANALYZER, PUCKELS RANDOM OPTICAL MODULAR, COLOR AND MULTIBAND AERIAL CAMERAS, PRECISION MENSURATION EQUIPMENT, AND A COHERENT RADAR SIGNAL PROCESSOR.

INSTALLATION ENGINEER WATERWAYS EXPERIMENT STATION

VICKSBURG, MISS.

DIR. COL GEORGE H. HILT

TECH. DIR. MR. F.R. BROWN

PROGRAM	PROGRAM DATA BY FISCAL YEAR (MILLION \$)	
	1974 (ACTUAL)	1975 (ACT + EST)
TOTAL RDT&E	11.614	13.555
TOTAL PROCUREMENT	0.000	0.000
TOTAL O&M	0.272	0.170
TOTAL OTHER	21.997	31.275
TOTAL ANNUAL LAB	33.883	45.000
TOTAL INHOUSE	27.994	33.460
TOTAL INHOUSE RDT&E	9.633	10.788
ANNUAL OPERATING COST	5.018	5.315

PERSONNEL	PERSONNEL DATA (END OF FY 1974)			
	AUTHORIZED STRENGTH	TOTAL PHDS	TOTAL PROF	NON- PROF
MILITARY	55	5	48	7
CIVILIAN	1368	52	425	943
TOTAL	1423	57	473	950

ACRES	SPACE AND PROPERTY			COST (MILLION \$)		
	SPACE (THOUSANDS OF SQUARE FEET)	LAB	ADMIN	OTHER	TOTAL REAL PROP	EQUIP
1904	1545.000	312.896	170.723	2028.619	15.617	28.526

...MISSION

MIL&CIV FUNDED ENGR RSCH,DEV&INVES IN HYD,ECOLOGY,PERM&EXPEDIENT PAVE-
MENTS,SOIL,CONCRETE,EXPLO WPN EFF,EXPLO EXCAVATION,VEH MOBILITY&ENVIRON-
MENTAL ASPECTS OF MIL OP. OPERATES TECH LIBRARY&GOVERNMENT CEMENT&POZZO-
LAN TEST PROGRAM. SERVES CE,AMC,DNA,AEC,AF,NAVY AND OTHER AGENCIES.

...CURRENT IMPORTANT PROGRAMS

HYDEMATH MODELING TO SOLVE RIVER,TIDAL,WIND-WAVE,ECOLOGICAL&STRUC PROBS.
RSCH ON VEH MOBILITY,REMOTE SENSING,DREDGED MAT,&EARTHQUAKE DESIGN CRIT.
NUC&HE RSCH TO DEV CRIT FOR ED OF PROTECTIVE STRUC,BARRIERS&EXCAVATIONS.
RSCH,DEV&FORMULATION OF NEW&IMP ENG CRIT ON ROADS,STOR AREAS,AIRFIELDS.
INVES OF CEMENTITIOUS MATERIALS AND RSCH OF MASS AND STRUCTURAL CONCRETE

...FUNCTIONS/EQUIPMENT/CAPABILITIES

CAPABLE OF PERF GEN INVES IN FLD OF HYD,SOIL MECH,CONCRETE,MOBILITY OF
MIL VEH,EXPLO EFF,ECOLOGY&EXPLO EXCAVATION AND DEV OF STRUC & PAVEMENTS
DESIGN CRIT. THRU BR&APPLIED RSCH,THE CAPABILITY OF DEV METHODS&TECH AND
THE TESTING OF MAT&EQUIP IS EXERCISED TO ASST IN ACCOMPMT OF THE CE MSN.
WES RESERVATION CNTN BLDGS,TEST SITES,SPECIAL EQUIP&OTHER PLANT FAC.
TEST SITES&FAC FOR SP PURPOSES ARE MAINT IN OTHER AREAS ON PERM OR TEMP
BASIS. FAC INCL FLUMES OF DIFF TYPES&SIZES,WAVE&TIDE GENR MACH,DRILL
EQUIP,FULLY EQUIPED SOILS,CONCRETE,CHEMISTRY,CALBR,ELCT&TEMPERATURE CON
ENVIRONMENTAL MODEL LABS,X-RAY DIFFRACTION&SPECTROSCOPY APPAR,LARGE AND
SMALL BLAST LOAD GENERATOR,200K DYNAMIC LOADER,MOBILITY RSCH FAC,SINGLE
AND MULTIPLE WHEEL LOAD CARTS,SUK EFF BLAST FAC,HIGH&LOW FREQ VIBRATORS,
ELECTRON MICROSCOPE,LARGE SCALE CMPT FAC AND TECH LIBRARY.

INSTALLATION FIELD ARTILLERY BOARD

FT. SILL, OK.

PRES. COL EDWIN L. WEBER, JR.

PROGRAM	PROGRAM DATA BY FISCAL YEAR (MILLION \$)	
	1974 (ACTUAL)	1975 (ACT + EST)
TOTAL RDT&E	1.231	1.160
TOTAL PROCUREMENT	0.000	0.000
TOTAL OEM	0.000	0.000
TOTAL OTHER	4.904	5.739
TOTAL ANNUAL LAB	6.135	6.899
TOTAL INHOUSE	6.125	6.899
TOTAL INHOUSE RDT&E	1.221	1.160
ANNUAL OPERATING CUST	0.357	0.357

PERSONNEL	PERSONNEL DATA (END OF FY 1974)				NON-PROF
	AUTHORIZED STRENGTH	TOTAL PHDS	TOTAL PROF		
MILITARY	359	0	68		291
CIVILIAN	47	0	5		42
TOTAL	406	0	73		333

ACRES	SPACE AND PROPERTY SPACE (THOUSANDS OF SQUARE FEET)			COST (MILLION \$)		
	LAB	ADMIN	OTHER	TOTAL	REAL PROP	EQUIP
23	26.286	48.946	57.941	133.175	3.330	1.839

...MISSION

PLAN CONDUCT AND REPORT ON DT I DT II AND OTHER DEVELOPMENTAL TYPE TESTS
PARTICIPATE IN DT II AND DT III AS DIRECTED
PROVIDE ADVICE TO PROPONENT AGENCIES AND DEVELOPERS
CONDUCT TESTS AND EVALUATIONS AS DIRECTED BY TECOM

...CURRENT IMPORTANT PROGRAMS

DEVELOPMENT TEST II TACFIRE
DEVELOPMENT TEST II LANCE XM251 HIGH EXPLOSIVE WARHEAD SECTION
DEVELOPMENT TEST II PERSHING 1A ARS/SLA
DEVELOPMENT TEST II METEOROLOGICAL DATA SOUNDING SYSTEM AN/UMQ-7
PRODUCT IMPROVEMENT TEST REVISION 5, FADAC CANNON PROGRAM

...FUNCTIONS/EQUIPMENT/CAPABILITIES

TWO 105MM HOW TWO 155MM HOW ONE 8IN HOW 175MM GUN
ONE MET STATION AND MAINTENANCE FACILITIES TO DO UP TO GS MAINT ON
TEST ITEMS. ADDITIONAL SUPPORT WHEN NEEDED IS OBTAINED FROM USAFACFS

INSTALLATION FRANKFORD ARSENAL LABORATORIES

PHILADELPHIA, PA.

C.O. COL JAMES R. GOBER

TECH. DIR. DR. SIDNEY ROSS

PROGRAM	PROGRAM DATA BY FISCAL YEAR (MILLION \$)	
	1974 (ACTUAL)	1975 (ACT + EST)
TOTAL RDT&E	26.913	27.892
TOTAL PROCUREMENT	26.192	25.714
TOTAL O&M	5.600	4.563
TOTAL OTHER	0.485	0.520
TOTAL ANNUAL LAB	59.190	58.689
TOTAL INHOUSE		
TOTAL INHOUSE RDT&E	52.659	51.708
ANNUAL OPERATING COST	20.382	20.911
	4.844	5.021

PERSONNEL	PERSONNEL DATA (END OF FY 1974)			
	AUTHORIZED STRENGTH	TOTAL PHDS	TOTAL PROF	NON- PROF
MILITARY	28	0	24	4
CIVILIAN	1648	46	684	964
TOTAL	1676	46	708	968

ACRES	SPACE AND PROPERTY				COST (MILLION \$)	
	SPACE (THOUSANDS OF SQUARE FEET)	LAB	ADMIN	OTHER	TOTAL	REAL PROP EQUIP
43		576.641	149.872	292.372	1018.885	16.813 9.143

...MISSION

COMMODITY CNTR/SMALL CAL AMMO, FIRE CONTROL SYS, CANNON CAL MUN, PROP ACTUAT DEVICES, DEV & ENG & QA/CASES, ARTIL METAL PARTS, MECH TIME FUZES & TIMERS, RES & TECH/OPTICAL MAT, NON-FERR METAL, MATRL DEGRAD, CORROSION PREV, MAT ENGR, SYNTH LUBS & FLUIDS, LASER COUNTERMEASURE, TMDE, TRACERS.

...CURRENT IMPORTANT PROGRAMS

ARMY SMALL AND AUTOM CANNON CAL AMMO RES, DEV, AND ENG PROGRAM
SMALL CALIBER AMMUNITION MODERNIZATION PROGRAM, SCAMP
FIRE CONTROL EQ FOR ACFT, ANTI-ACFT, ARTIL, COMB VEH, & SMALL CAL WEAPONS
TEST MEASUREMENT DIAGNOSTIC EQUIPMENT, TMDE PROGRAM
RESEARCH AND DEVELOP FOR LASER COUNTERMEASURE AND PROTECTION

...FUNCTIONS/EQUIPMENT/CAPABILITIES

36 BALLIST TEST RANGES. BALLIST MEAS EQUIP-PHOTOMETRIC TRACER, MICROWAVE INTERFEROMETER, HIGH SPEED HARD & SOFT X-RAY, DOPPLER RADAR, ANECHOIC CHAMB, HOLOGRAPHIC EQ, VERT TEST TOWERS, 4 PADS FOR POINT FUZE DETONT, 18 IN HI-G SHOCK MACHINE, 155MM AIR GUN, SPEC IGN & COMBUST EQ, RAPID SCAN SPECTROPHOTOMETER, ELECT MICROSCOPE, SPECTROMETER, OPTICAL LAB & DESIGN SHOP, LASER TEST FAC, SOLID STATE PHY LAB, ELECT BEAM VAC FILM DEPOSIT EQUIP, PHOTOELASTIC STRESS ANAL EQUIP, ATMOSP SIMULATOR, COC BATCH TERMINALS, HYDRAULIC & MECH POWDER MOLD EQUIP, MICROBIOLOGY LAB, TROP CLIMATE ROOM, DIFF SCAN CALORIMET PROP PROC LAB, AIRBORNE FIRE CONTROL EQUIP, AUTOMAT CHECK-OUT EQUIP, HUMIDITY & OZONE ROOM, SCAMP MOOULES, PILOT TRACER LOAD FAC, RADIO-ISOTOPE LAB, ULTRASONIC MAT TEST SYS, ELEC MICROPROBE, VAC-ARC MELTING FURN, STAT-DYNAM IMPACT TEST, MAIN ENG VEHICLE TEST FAC, LASER PHOTOLYSIS, SPACE SIMULATOR.

INSTALLATION HARRY DIAMOND LABORATORIES

WASHINGTON, D.C.

C.O. COL DAVID W. EINSEL, JR.

TECH. DIR. MR. BILLY M. HORTON

PROGRAM	PROGRAM DATA BY FISCAL YEAR (MILLION \$)	
	1974 (ACTUAL)	1975 (ACT + EST)
TOTAL RDT&E	46.614	51.203
TOTAL PROCUREMENT	48.832	60.840
TOTAL O&M	18.618	25.852
TOTAL OTHER	1.700	0.274
TOTAL ANNUAL LAB	115.764	138.169
TOTAL INHOUSE	30.393	35.726
TOTAL INHOUSE RDT&E	26.727	30.210
ANNUAL OPERATING COST	9.343	9.898

PERSONNEL	PERSONNEL DATA (END OF FY 1974)			
	AUTHORIZED STRENGTH	TOTAL PHDS	TOTAL PROF	NON- PROF
MILITARY	9	3	8	1
CIVILIAN	1578	69	836	742
TOTAL	1587	72	844	743

ACRES	SPACE AND PROPERTY SPACE (THOUSANDS OF SQUARE FEET)			COST (MILLION \$)		
	LAB	ADMIN	OTHER	TOTAL	REAL PROP	EQUIP
2237	459.585	47.510	61.552	588.647	11.874	24.159

...MISSION
INFLUENCE TIME AND COMMAND FUZING/TARGET DETECTION AND SIGNATURE ANALYSIS/TARGET INTERCEPT PHASE OF TERM GUID/WEAPON SYS SYNTHESIS&ANALYSIS/ECC&NUC EFFECTS & OTHER SEVERE ENV/FLUIDICS & MED ENG/INSTRUMENTATION&SIMULATION/COMPONENTS&MATERIALS/INDUSTRIAL & MAINTENANCE ENGINEERING*

...CURRENT IMPORTANT PROGRAMS
RD&E ON PROXIMITY & ELECTRONIC FUZING/MICROMINIATURIZATION OF ELECTRONIC COMPONENTS/POWER SUPPLIES/NUC WPNS EFFECTS/TREE/INTERNAL & EXTERNAL EMP/SPEC PURPOSE RADARS/FLUIDICS/M1140 LANCE FUZE/CAMP SENTINEL RADAR/XM732 SHORT INTRUSION FUZE/MULTIOPTION FUZE FOR MORTARS XM734/SAM-D FUZE/TEMPS AEMDA STUDIES/CHAPARRAL FUZE XM817/FUZE ON A CHIP RES/XM587 TIME FUZE*

...FUNCTIONS/EQUIPMENT/CAPABILITIES
SIMULATORS TO DETERMINE SUSCEPTIBILITY OF WEAPON SYSTEMS TO NUCLEAR WEAPONS EFFECTS & TO ESTABLISH HARDENED DESIGNS/PULSED NUCLEAR REACTOR & HIGH INTENSITY X RAY /AN EXTREMELY LARGE DOSE & VOLUME GAMMA RAY GENERATOR AURORA & BICONIC ELECTROMAGNETIC PULSE EMP DEVICE & LARGE TRANSPORTABLE EMP SIMULATOR TEMPS FOR HIGH ALTITUDE & THREAT LEVEL ENVIRONMENT SIMULATION/ARTILLERY SIMULATOR TO EVALUATE EFFECTS OF FIRING FORCES/LATITUDE MAGNETIC SIMULATOR FOR ANTITANK SIGNATURE ANALYSIS/INFRA RED DARK TUNNEL/ANTENNA TEST RANGE/RADAR TEST SITE/ HIGH PRESSURE SHOCK TUBES FOR STUDY OF HIGH TEMP EASES/ MERCURY ARC PLASMA TUBE & OPTICAL & SPECTROSCOPIC EQUIPMENT*

INSTALLATION HUMAN ENGINEERING LABORATORY

ABERDEEN PROV GR, MD.

DIR. DR. JOHN D. WEISZ

EXEC. LTC RICHARD D. KAVANAUGH

PROGRAM	PROGRAM DATA BY FISCAL YEAR (MILLION \$)	
	1974 (ACTUAL)	1975 (ACT + EST)
TOTAL RDT&E	3.484	3.568
TOTAL PROCUREMENT	0.045	0.000
TOTAL O&M	0.849	0.010
TOTAL OTHER	0.267	0.281
TOTAL ANNUAL LAB	4.645	3.859
TOTAL INHOUSE	4.340	3.619
TOTAL INHOUSE RDT&E	3.195	3.328
ANNUAL OPERATING COST	1.646	1.869

PERSONNEL	PERSONNEL DATA (END OF FY 1974)				NON-PROF
	AUTHORIZED STRENGTH	TOTAL PHDS	TOTAL PROF		
MILITARY	31	1	15		16
CIVILIAN	128	11	75		53
TOTAL	159	12	90		69

ACRES	SPACE AND PROPERTY SPACE (THOUSANDS OF SQUARE FEET)			COST (MILLION \$)		
	LAB	ADMIN	OTHER	TOTAL	REAL PROP	EQUIP
10	26.500	17.605	28.953	73.058	0.709	2.900

...MISSION

CONDUCT BASIC AND APPLIED RSCH IN HUMAN FACTORS ENGR
DEVELOP NEW HUMAN FACTORS ENGINEERING METHODOLOGY
ESTABLISH AND OPERATE A MNPWR CHARACTERISTICS DATA BANK
INTEGRATE ALL MNPWR CHARACT'S INTO ARMY MAT DEV PROGRAM

...CURRENT IMPORTANT PROGRAMS

HUMAN ENGINEERING LAB BN ARTY TESTS, HELBAT
HUMAN ENGINEERING LAB ARMOR SYSTEMS TESTS, HELAST
HUMAN ENGINEERING LAB INFANTRY SYSTEMS TESTS, HELIST
STUDY ON NEURAL CONTROL OF SENSORY INPUTS
HUMAN FACTORS ENG IN SPT OF FLD EVAL DESIGNATOR SYSTEMS

...FUNCTIONS/EQUIPMENT/CAPABILITIES

INSTRUMENTED PHYSICAL ENDURANCE COURSE
HELICOPTER SIMULATORS - WHIRLYMITE
COMMAND AND CONTROL INFORMATION HANDLING SIMULATORS
ANECHOIC CHAMBER
PHYSIOLOGY LABORATORY WITH INSTRUMENTATION
SMALL ARMS TEST FIRING RANGE
ANIMAL SURGICAL FACILITY
NOISE MEASUREMENT AND ANALYSIS INSTRUMENTATION
WOOD AND METAL WORKING TEST SUPPORT CAPABILITY
BODY ARMOR TEST SITE
CENTRAL NERVOUS SYSTEM OUTPUT RECORDING INSTRUMENTATION
HUMAN PERFORMANCE DATA BANK

INSTALLATION INFANTRY BOARD

FT. BENNING, GA.

PRES. COL WALTER E. MEINZEN

PROGRAM	PROGRAM DATA BY FISCAL YEAR (MILLION \$)	
	1974	1975
	(ACTUAL)	(ACT + EST)
TOTAL RDT&E	1.141	1.039
TOTAL PROCUREMENT	0.000	0.010
TOTAL O&M	0.031	0.000
TOTAL OTHER	3.057	2.507
TOTAL ANNUAL LAB	4.229	3.556
TOTAL INHOUSE	4.229	3.556
TOTAL INHOUSE RDT&E	1.141	1.039
ANNUAL OPERATING COST	0.187	0.206

PERSONNEL	PERSONNEL DATA (END OF FY 1974)			
	AUTHORIZED STRENGTH	TOTAL PHDS	TOTAL PROF	NON-PROF
MILITARY	155	0	32	123
CIVILIAN	62	0	5	57
TOTAL	217	0	37	180

ACRES	SPACE AND PROPERTY			COST (MILLION \$)		
	SPACE (THOUSANDS OF SQUARE FEET)			TOTAL	REAL PROP	EQUIP
	LAB	ADMIN	OTHER			
0	0.000	46.203	30.838	77.041	0.000	0.482

...MISSION

PLAN CONDUCT & REPORT ON DEVELOPMENTAL TESTS I DEVELOPMENTAL TESTS II
CHECK TESTS FEASIBILITY TESTS, ENGR DESIGN TESTS & PRODUCT IMPROVEMENT
TESTS. PARTICIPATE IN DEVELOPMENTAL AND PREPRODUCTION TEST AS DIRECTED.
PROVIDE ADVICE TO PROPONENT AGENCIES AND MATERIEL DEVELOPERS.

...CURRENT IMPORTANT PROGRAMS

CHECK OPERATIONS TEST MEDIUM ANTITANK ASSAULT WPN XM47 DRAGON
LIGHTWEIGHT COMPANY MORTAR SYSTEM
SERVICE TEST OF NIGHT VISION SIGHTS ANPVS-4
LIGHTWEIGHT LASER DESIGNATOR
SERVICE TEST MICV XM723

...FUNCTIONS/EQUIPMENT/CAPABILITIES

EQUIP & ANCILLARY ITEMS USED BY INF FOR FIRE POWER TARGET ACQUISITION.
GROUND SURVEILLANCE, FIRE CONTROL & GROUND MOBILITY CLOTHING EQUIP RATS &
COOKING & MESSING EQUIP, ANTIPERSONNEL MINES & RELATED EQUIP, CHEMICAL,
BIOLOGICAL & RADIOLOGICAL EQUIP FOR INDIVIDUALS ITEMS ARE WORN OR
CARRIED BY INDIVIDUAL PARACHUTISTS WHILE JUMPING AND THEN CARRIED AFTER
CLEARING THE DROP ZONE. REVIEW & COMMENT ON TRAINING DEVICE REQUIREMENT
DOCUMENTS, TRAINING PACKAGES, MAINTENANCE TEST PACKAGES & ASSIST IN THE
REVIEW OF MILITARY SPECIFICATIONS, PROVIDE TECOM TEST REQUIREMENTS FOR
THE COORDINATED TEST PLAN. PLAN, DIRECT & CONTROL A PROGRAM IN TEST METH
TEST INSTRU & TEST FACILITIES NEEDED TO SUPPORT TEST REQUIREMENTS WITHIN
ASSIGNED MISSION AREA. SUPPORT OTHER AMC SUBORDINATE ELEMENTS.
PROVIDE TECOM MEMBERSHIP REPRESENTATION ON THE USAIC TEAM.

INSTALLATION INSTITUTE OF DENTAL RESEARCH

WASHINGTON, D.C.

C.O. COL SIMON CIVJAN

PROGRAM	PROGRAM DATA BY FISCAL YEAR (MILLION \$)	
	1974 (ACTUAL)	1975 (ACT + EST)
TOTAL RDT&E	0.845	0.850
TOTAL PROCUREMENT	0.000	0.000
TOTAL O&M	0.069	0.069
TOTAL OTHER	0.927	0.978
TOTAL ANNUAL LAB	1.841	1.897
TOTAL INHOUSE	1.841	1.897
TOTAL INHOUSE RDT&E	0.845	0.850
ANNUAL OPERATING COST	0.120	0.160

PERSONNEL	PERSONNEL DATA (END OF FY 1974)				NON- PROF
	AUTHORIZED STRENGTH	TOTAL PHDS	TOTAL PROF		
MILITARY	56	21	29		27
CIVILIAN	26	1	7		19
TOTAL	82	22	36		46

ACRES	SPACE AND PROPERTY SPACE (THOUSANDS OF SQUARE FEET)			COST (MILLION \$)		
	LAB	ADMIN	OTHER	TOTAL	REAL PROP	EQUIP
4	9.325	5.696	6.730	21.751	0.758	0.850

...MISSION

CONDUCT RESEARCH IN THE ETIOLOGY, PREVENTION AND CONTROL OF ORAL DISEASES, AND SIMPLIFIED TECHNIQUES FOR RAPID AND EFFECTIVE DENTAL TREATMENT.

...CURRENT IMPORTANT PROGRAMS

NONDEGRADABLE AND BIODEGRADABLE IMPLANT MATERIALS.
STERILIZATION METHODS FOR FIELD USE.
ELECTRIC ANESTHESIA TECHNIQUES.
UTILIZATION OF NITINOL IN MEDICINE AND DENTISTRY.
HAND SCRUB BY PULSE-PRESSURE LAVAGE.

...FUNCTIONS/EQUIPMENT/CAPABILITIES

DETERMINE PHYSICAL, CHEMICAL AND MECHANICAL PROPERTIES OF METALS, ALLOYS, CERAMICS, PLASTICS, AND POLYMERS TO INCLUDE STRESS TESTING AND ELECTRON MICROSCOPIC EVALUATION. CONDUCT RESEARCH IN MICROBIOLOGY, BIOCHEMISTRY, IMMUNOLOGY, RADIATION MEDICINE, AND PHARMACOLOGY. TEST AND EVALUATE ANY FACET OF CLINICAL DENTISTRY, TO INCLUDE CLINICAL AND LABORATORY TECHNIQUES. PREPARE AND ANALYZE HISTOPATHOLOGIC SPECIMENS AND PERFORM DIFFERENTIAL DIAGNOSTIC EVALUATION ON THEM. PERFORM MOST FACETS OF ANIMAL SURGERY REQUIRED TO SUPPORT RESEARCH EFFORT.

INSTALLATION INSTITUTE OF SURGICAL RESEARCH

FT. SAM HOUSTON, TX.

C.O. COL BASIL A. PRUITT, JR.

TECH. DIR. DR. ARTHUR D. MASON

PROGRAM	PROGRAM DATA BY FISCAL YEAR (MILLION \$)	
	1974 (ACTUAL)	1975 (ACT + EST)
TOTAL RDT&E	1.500	1.600
TOTAL PROCUREMENT	0.000	0.000
TOTAL O&M	0.000	0.000
TOTAL OTHER	1.653	1.744
TOTAL ANNUAL LAB	3.153	3.344
TOTAL INHOUSE	3.153	3.344
TOTAL INHOUSE RDT&E	1.500	1.600
ANNUAL OPERATING COST	0.135	0.155

PERSONNEL	PERSONNEL DATA (END OF FY 1974)				NON- PROF
	AUTHORIZED STRENGTH	TOTAL PHDS	TOTAL PROF		
MILITARY	134	20	142		8
CIVILIAN	80	3	28		52
TOTAL	214	23	170		60

ACRES	SPACE AND PROPERTY			COST (MILLION \$)		
	SPACE (THOUSANDS OF SQUARE FEET)			TOTAL	REAL PROP	EQUIP
	LAB	ADMIN	OTHER			
1	25.422	0.800	22.408	48.630	1.968	1.434

...MISSION

RESEARCH IN SEVERE BURN INJURIES AND THEIR COMPLICATIONS, AND TRAINING FOR SPECIFIED PERSONNEL IN THE TOTAL MEDICAL MANAGEMENT OF SUCH INJURIES.

...CURRENT IMPORTANT PROGRAMS

STUDY OF POST BURN HEMODYNAMIC PULMONARY AND GASTROENTEROLOGIC CHANGES. CLINICAL AND LABORATORY STUDIES OF INFECTION IN BURN PATIENTS. STUDY OF ACUTE RENAL FAILURE AND RENAL PHYSIOLOGY. STUDY OF POST BURN HEMATOLOGY AND IMMUNOLOGY. METABOLIC CHANGES FOLLOWING BURNS AND EFFECTS OF HYPERALIMENTATION.

...FUNCTIONS/EQUIPMENT/CAPABILITIES

OPERATES 60 BEDS FOR SERIOUSLY BURNED AND INJURED PATIENTS. PROVIDES CLINICAL LABORATORY SUPPORT AND RESEARCH CAPABILITIES IN THE FIELDS OF PATHOLOGY (INCLUDING USE OF ELECTRON MICROSCOPE), MICROBIOLOGY, EXPERIMENTAL SURGERY, RENAL PHYSIOLOGY AND BIOCHEMISTRY. MAINTAINS AN ANIMAL COLONY, ELECTRONIC SHOP, MACHINE SHOP, SURGICAL LIBRARY AND A METABOLIC CHAMBER.

INSTALLATION LETTERMAN ARMY INSTITUTE OF RESEARCH

PRESIDIO, S.F., CAL.

C.O. COL JOHN E. CANHAM

PROGRAM	PROGRAM DATA BY FISCAL YEAR (MILLION \$)	
	1974 (ACTUAL)	1975 (ACT + EST)
TOTAL RDT&E	4.984	5.845
TOTAL PROCUREMENT	0.000	0.000
TOTAL G&M	0.000	0.000
TOTAL OTHER	1.957	2.064
TOTAL ANNUAL LAB	6.941	7.909
TOTAL INHOUSE	6.941	7.909
TOTAL INHOUSE RDT&E	4.984	5.845
ANNUAL OPERATING COST	2.495	1.737

PERSONNEL	PERSONNEL DATA (END OF FY 1974)			
	AUTHORIZED STRENGTH	TOTAL PHDS	TOTAL PROF	NON- PROF
MILITARY	202	38	85	117
CIVILIAN	127	17	44	83
TOTAL	329	55	129	200

ACRES	SPACE AND PROPERTY			COST (MILLION \$)		
	SPACE (THOUSANDS OF SQUARE FEET)			TOTAL	REAL PROP	EQUIP
	LAB	ADMIN	OTHER			
4	127.997	9.660	67.272	204.929	8.931	6.118

...MISSION
CONDUCT GENERAL MEDICAL RESEARCH, AND RESEARCH IN AREAS OF NUTRITION, INFECTIOUS DISEASES, DERMATOLOGY, SURGERY, EXPERIMENTAL PSYCHOLOGY, CLINICAL INVESTIGATION PROJECTS AS REQUESTED BY THE CG, LAMC, AND OTHER MEDICAL RESEARCH ACTIVITIES AS DIRECTED BY THE CG, USAMRDC.

...CURRENT IMPORTANT PROGRAMS
ADVERSE EFFECTS ON HUMAN SKIN BY HEAT, MOISTURE AND INFECTIOUS AGENTS.
ENTOMOLOGICAL VECTORS OF DISEASE CONTROL BY INSECT REPELLENTS.
APPLIED NUTRITION STUDIES OF MILITARY POPULATIONS.
NUTRITION AND METABOLIC ADAPTATION AND INTERRELATIONSHIPS.
PERIPHERAL CIRCULATION IN HEMORRHAGIC SHOCK.

...FUNCTIONS/EQUIPMENT/CAPABILITIES
EQUIPMENT AND FACILITY CAPABILITIES INCLUDE: HUMAN METABOLIC WARD, GERM-FREE ANIMALS, MED ASPECTS OF LASER RADIATION, ELECTRON MICROSCOPY, AUTO ANALYZERS AND RECORDERS INCLUDING AUTO, BETA AND GAMMA COUNTERS, SHADOW SHIELD WHOLE BODY COUNTERS& GAMMA CAMERA& AND MASS SPECTROMETER. RESEARCH INCLUDES: NUTRITION SURVEYS AND RATION TESTING BASIC AND APPLIED STUDIES OF TRACE MINERAL METABOLISM, NUTRIENT REQUIREMENTS AND INTERRELATIONSHIP, EXPERIMENTAL SURGERY, COMPARATIVE PATHOLOGY OF STRESS IN ENVIRONMENT AND OF NUTRITION, PHYSIOLOGICAL AND BIOCHEMICAL STUDIES OF MUSCLE METABOLISM, EXERCISE AND FATIGUE IN MAN AND MILITARY DOG. CONDUCTS STUDIES OF DELAYED HYPERSENSITIVITY, FRICTION BLISTERS, FUNGAL SKIN DISEASE, PROLONGED WATER IMMERSION, AND PRICKLEY HEAT. MAINTAINS BREEDING COLONIES AND SPECIAL ANIMAL STRAINS.

INSTALLATION MATERIALS AND MECHANICS RESEARCH CENTER WATERTOWN, MASS.

DIR. DR. A.E. GORUM

C.O. AND DEPUTY DIR. LTC R.B. HENRY

PROGRAM	PROGRAM DATA BY FISCAL YEAR (MILLION \$)	
	1974 (ACTUAL)	1975 (ACT + EST)
TOTAL ROT&E	23.376	23.636
TOTAL PROCUREMENT	3.030	6.211
TOTAL O&M	1.684	1.852
TOTAL OTHER	0.210	0.000
TOTAL ANNUAL LAB	28.300	31.699
TOTAL INHOUSE	16.604	17.302
TOTAL INHOUSE ROT&E	13.062	13.123
ANNUAL OPERATING COST	3.620	3.580

PERSONNEL	PERSONNEL DATA (END OF FY 1974)			
	AUTHORIZED STRENGTH	TOTAL PHOS	TOTAL PROF	NON- PROF
MILITARY	15	3	8	7
CIVILIAN	626	67	211	415
TOTAL	641	70	219	422

ACRES	SPACE AND PROPERTY			COST (MILLION \$)		
	SPACE (THOUSANDS OF SQUARE FEET)			TOTAL	REAL PROP	EQUIP
	LAB	ADMIN	OTHER			
48	389.161	96.018	169.979	655.158	14.286	16.416

...MISSION

MANAGE AMC R&D STRUC MAT & MECH PROG AS LEAD LAB FOR MAT, SOLID MECH & TESTING TECHNOLOGY. CONDUCT TECHNOLOGICAL PROG IN MAT & MECH USED IN ARMY MATERIEL. EXECUTES PROGRAM IN OWN FACILITIES & BY ASSIGNMENT & FUND TRANSFER TO OTHER AMC LABS & CONTRACTORS.

...CURRENT IMPORTANT PROGRAMS

R&D PROGRAMS FOR IMPROVED MATERIAL - ARMOR
 R&D PROGRAMS FOR IMPROVED MATERIAL - HARDENED BMD
 R&D PROGRAMS FOR IMPROVED MATERIAL - AIRCRAFT
 R&D PROGRAMS FOR IMPROVED MATERIAL - MATERIALS-PROCESSING & EVALUATION
 R&D PROGRAMS FOR IMPROVED MATERIAL - ARMAMENTS

...FUNCTIONS/EQUIPMENT/CAPABILITIES

MANAGE AMC R&D PROG IN MATERIALS & MECHANICS & CONDUCT TECH PROGS IN MATERIALS SYSTEMS & MECHANICS DIRECTED TO ARMY MATERIEL. MANAGE OOD PROG AS EXECUTIVE AGENT-ARMOR TECHNOLOGY. MANAGE & CONDUCT INTEGRATED & DIRECTED BASIC & APPLIED RES ON MATERIALS SUCH AS METALS, CERAMICS, ORGANIC & IN-ORGANIC POLYMERS & COMPOSITES. MANAGE & CONDUCT THEORETICAL & APPLIED STUDIES ON MECH OF MATLS & SYSTEMS. IDENTIFY & INVE BASIC FACTORS INVOLVED IN PROC & APPL OF NEW & IMPROVED MATLS. TECH MANAGE FIVE INFO ANAL CEN. ASST IN DESIGN & DEV OF PROTOTYPES. DEV METHODS FOR TEST & EVAL OF MATS & STRUCTURES. MANAGE ARMY PORTION DEFENSE STANDARDIZATION PROG. CONDUCT ENGINEERING STANDARDIZATION EFFORT. MANAGE AMC MATERIALS TESTING PROGRAM. CONDUCT PEMA MANUFACTURING METHODS & TECHNOLOGY PROGRAMS & ADVISE COMMAND & INDUSTRY ON PROCESSING TECHNIQUES.

INSTALLATION MATERIEL TESTING DIRECTORATE

ABERDEEN PROV GR, MD.

C.O. COL ALVIN D. UNGERLEIDER

ASSOC. DIR. R.D. SISSOM

PROGRAM	PROGRAM DATA BY FISCAL YEAR (MILLION \$)	
	1974 (ACTUAL)	1975 (ACT + EST)
TOTAL RDT&E	12.638	20.157
TOTAL PROCUREMENT	10.453	5.563
TOTAL O&M	1.146	1.129
TOTAL OTHER	0.715	0.653
TOTAL ANNUAL LAB	24.952	27.502
TOTAL INHOUSE	24.666	26.992
TOTAL INHOUSE RDT&E	12.388	19.757
ANNUAL OPERATING COST	12.440	14.913

PERSONNEL	PERSONNEL DATA (END OF FY 1974)				NON-PROF
	AUTHORIZED STRENGTH	TOTAL PHDS	TOTAL PROF		
MILITARY	57	1	25		32
CIVILIAN	1038	5	193		845
TOTAL	1095	6	218		877

ACRES	SPACE AND PROPERTY			COST (MILLION \$)		
	SPACE (THOUSANDS OF SQUARE FEET)					
	LAB	ADMIN	OTHER	TOTAL	REAL PROP	EQUIP
23710	686.123	9.540	298.511	994.174	16.524	42.356

...MISSION

PLAN CDT & REPT TESTS OF WPNS WPN SYS RKTS & GM SYS FIRE CON & TGT ACQ
EQUIP ITEMS OF AMMO & MUN COMPONENTS CBT VEHs OTHER AUTO MAT GEN EQUIP
SUCH AS GENERATORS & AIR CONDS PROC INSP & CON ISSUE OF ARMOR PLATE FOR
ALL USAMC AMMO TEST PROV SUPPORT SVCS TO APG ELEMENTS & SUPPORTED CMDS

...CURRENT IMPORTANT PROGRAMS

PROD IMP AUTOMATIC VULCAN AIR DEFENSE SYSTEM
DEV TEST 1 MACH GUN LIGHT SQUAD AUTOMATIC WEAPON
DEV TEST 3 LIGHTWEIGHT CAMOUFLAGE SCREENING SYS WOODLAND
ENGR TEST TANK CMB FULL TRACK 105MM GUN M60A1E3
ENGR TEST 8 INCH HUW SYSTEM M110E2

...FUNCTIONS/EQUIPMENT/CAPABILITIES

TEST AREA 68700 ACRES RANGE TO LAND IMPACT 26000 M RANGE TO WATER IMPACT
30000 M 41 MI OF AUTMV CRS INCL 27 SP ENGR TEST CRS & OBSTACLES, VARIETY
OF ENVIR OR COND EQUIP, SP CHAMBERS FOR SUBJECTING EQUIP TO DUST SALT
SPRAY OR SOLAR RADN, ISOLATED VIBRATION TEST FAC WHICH PERMITS SHAKING
EXPLO EQUIP SIMULTANEOUSLY WITH TEMP CONDITIONING, FAC FOR CONTROLLED
TESTS OF ELEC CON & GUIDANCE EQPT, FREQ SOURCE WHICH PERMITS TESTING ALL
TYPES OF MAT IN PRESENCE OF A HIGH INTENSITY ELEC MAGNETIC RADN, SP FAC
FOR TEST OF ARMOR PLATE, SP VEL & TGT EQUIP IS AVAIL FOR OBSERVATIONS
DURING RAPID FIRE AS IS A RKT TRACK FOR CONTROLLED TERMINAL BALLISTIC
TESTS, FAC AVAIL FOR TESTS OF SP ELECTRONIC & FIRE CON EQUIP & RELATED
SYSTEMS & COMPONENTS

INSTALLATION MEDICAL BIOENGINEERING R&D LABORATORY

FORT DIETRICK, MD.

C.O. COL ORLYN C. OESTEREICH

TECH. DIR. DR. K.E. WOODARD

PROGRAM	PROGRAM DATA BY FISCAL YEAR (MILLION \$)	
	1974 (ACTUAL)	1975 (ACT + EST)
TOTAL RDT&E	3.189	2.275
TOTAL PROCUREMENT	0.000	0.000
TOTAL O&M	0.000	0.000
TOTAL OTHER	0.498	0.525
TOTAL ANNUAL LAB	3.687	2.800
TOTAL INHOUSE	3.687	2.800
TOTAL INHOUSE RDT&E	3.189	2.275
ANNUAL OPERATING COST	0.770	0.805

PERSONNEL	PERSONNEL DATA (END OF FY 1974)			
	AUTHORIZED STRENGTH	TOTAL PHDS	TOTAL PROF	NON- PROF
MILITARY	32	6	22	10
CIVILIAN	81	13	34	47
TOTAL	113	19	56	57

ACRES	SPACE AND PROPERTY			COST (MILLION \$)		
	SPACE (THOUSANDS OF SQUARE FEET)			TOTAL	REAL PROP	EQUIP
	LAB	ADMIN	OTHER			
4	35.500	27.300	38.943	101.743	2.905	1.782

...MISSION
CONDUCT ENGINEERING RESEARCH AND DEVELOPMENT OF MILITARY MED EQUIPMENT ON CONTINUING BASIS FOR THE ARMY AND ON AN AS RQR BASIS FOR NAVY AND AF. COT ENVIRON HEALTH RSCH IN SUPPORT OF TSG RESPONSIBILITIES IN AIR AND WATER POLLUTION CONTROL AND SOLID WASTE AND PESTICIDE DISPOSAL.

...CURRENT IMPORTANT PROGRAMS
COMPUTER ANALYSIS OF A MULTI-DEGREE OF FREEDOM ARM. SYNTHESIS OF NEW TISSUE ADHESIVES AND DEVELOPMENT OF NEW ARTIFICIAL TENDON MATERIALS. DEVELOPMENT OF A PROTOTYPE AUTOMATIC FIELD FABRICATOR FOR EYEGGLASS LENSES. DEVELOPMENT OF IMPROVED FIELD TEST PROCEDURES FOR DETERMINING CHLORINE RESIDUALS IN AQUEOUS SOLUTIONS.

...FUNCTIONS/EQUIPMENT/CAPABILITIES
MAJOR LABORATORY CAPABILITIES INCLUDE DESIGNING, DEVELOPING AND FABRICATING PROTOTYPE FIELD MEDICAL EQUIPMENT DESIGNING, DEVELOPING AND FABRICATING PROTOTYPE AND CUSTOM-FITTED PROSTHETIC AND ORTHOTIC DEVICES AND RELATED CONTROL UNITS, DEVELOPING AND CONDUCTING IN VIVO AND IN VITRO STUDIES OF BIOMATERIALS, ELECTRON MICROSCOPY, AND PERFORMING CHEMICAL AND BIOLOGICAL ANALYSIS OF THE ENVIRONMENT.

INSTALLATION MEDICAL RESEARCH INST OF INFECTIOUS DISEASES FORT DETRICK, MD

C.O. COL JOSEPH F. METZGER

TECH. DIR. DR. WILLIAM R. BEISEL

PROGRAM	PROGRAM DATA BY FISCAL YEAR (MILLION \$)	
	1974 (ACTUAL)	1975 (ACT + EST)
TOTAL RDT&E	7.364	7.676
TOTAL PROCUREMENT	0.000	0.000
TOTAL O&M	0.000	0.000
TOTAL OTHER	3.166	3.340
TOTAL ANNUAL LAB	10.530	11.016
TOTAL INHOUSE	10.530	11.016
TOTAL INHOUSE RDT&E	7.364	7.676
ANNUAL OPERATING COST	2.047	2.811

PERSONNEL	PERSONNEL DATA (END OF FY 1974)			
	AUTHORIZED STRENGTH	TOTAL PHDS	TOTAL PROF	NON- PROF
MILITARY	354	56	66	288
CIVILIAN	220	24	48	172
TOTAL	574	80	114	460

ACRES	SPACE AND PROPERTY			COST (MILLION \$)		
	SPACE (THOUSANDS OF SQUARE FEET)			TOTAL	REAL PROP	EQUIP
	LAB	ADMIN	OTHER			
57	93.217	13.819	198.731	305.767	17.824	3.147

...MISSION

CONDUCT STUDIES ON PATHOGENESIS, DIAGNOSIS, PROPHYLAXIS, TREATMENT, AND EPIDEMIOLOGY OF INFECTIOUS DISEASES OF MIL IMPORTANCE, WITH EMPHASIS ON PROBLEMS ASSOCIATED WITH MEDICAL DEFENSE AGAINST BIOLOGICAL AGENTS AND ON THOSE MICRO-ORGANISMS WHICH REQUIRE SPECIAL CONTAINMENT FACILITIES.

...CURRENT IMPORTANT PROGRAMS

DEVELOPMENT OF NEW VACCINES AND TOXOIDS. IMMUNOLOGICAL STUDIES TO DETERMINE HOW VACCINES PROTECT. STUDIES ON PATHOGENESIS OF MILITARILY IMPORTANT DISEASES. DEVELOPMENT OF MORE RAPID AND IMPROVED METHODS OF DISEASE DIAGNOSIS AND MANAGEMENT.

...FUNCTIONS/EQUIPMENT/CAPABILITIES

TWO LARGE BUILDINGS PROVIDE 300,000 SQUARE FEET OF SPACE AND CONTAIN 23 MODERN LABORATORY SUITES WHICH REPRESENT THE LATEST IN FUNCTIONAL CONCEPTS, LABORATORY DESIGN AND SAFETY. A COMPLEX PROGRAM OF MEDICAL RESEARCH IS CONDUCTED AND INCLUDES IMMUNOLOGY, PATHOLOGY, PHYSIOLOGY SEROLOGY, BIOCHEMISTRY, BIOPHYSICS, MOLECULAR BIOLOGY AND TISSUE CULTURE. SPECIAL CAPABILITIES INCLUDE ELECTRON MICROSCOPY, ELECTRON SPIN RESONANCE AND RADIOIMMUNOASSAY LABORATORIES, A VACCINE PRODUCTION SUITE, HOSPITAL FACILITIES FOR MEDICAL PATIENTS AND FOR RESEARCH STUDIES WITH VOLUNTEERS. USAMRIID RESEARCH IS SUPPORTED BY TWO COMPUTERS AND AN ANIMAL FARM.

INSTALLATION MEDICAL RESEARCH LABORATORY

FT. KNOX, KY.

C.O. COL FRANK R. CAMP, JR.

PROGRAM	PROGRAM DATA BY FISCAL YEAR (MILLION \$)	
	1974 (ACTUAL)	1975 (ACT + EST)
TOTAL RDT&E	1.416	0.000
TOTAL PROCUREMENT	0.000	0.000
TOTAL O&M	0.757	0.000
TOTAL OTHER	0.453	0.000
TOTAL ANNUAL LAB	2.626	0.000
TOTAL INHOUSE	2.626	0.000
TOTAL INHOUSE RDT&E	1.416	0.000
ANNUAL OPERATING COST	0.881	0.000

PERSONNEL	PERSONNEL DATA (END OF FY 1974)			
	AUTHORIZED STRENGTH	TOTAL PHDS	TOTAL PROF	NON- PROF
MILITARY	104	11	74	30
CIVILIAN	104	9	23	81
TOTAL	208	20	97	111

ACRES	SPACE AND PROPERTY				COST (MILLION \$)	
	SPACE (THOUSANDS OF SQUARE FEET)				REAL PROP	EQUIP
	LAB	ADMIN	OTHER	TOTAL		
20	88.025	5.368	34.734	128.127	0.280	2.693

...MISSION
CONDUCT RESEARCH ON BLOOD TRANSFUSIONS, PRESERVATION AND STORAGE OF BLOOD, SUBSTITUTES FOR BLOOD, AND BLOOD FRACTIONS.

...CURRENT IMPORTANT PROGRAMS
MILITARY BLOOD BANKING, METHODOLOGY AND EQUIPMENT.
MILITARY BLOOD BANKING, EVALUATION OF CHANGES IN BLOOD DURING STORAGE.
MILITARY PERFORMANCE, PSYCHOPHYSIOLOGY OF VISION.
MILITARY PERFORMANCE, TRAUMATIC ORIGINS OF HEARING LOSS.

...FUNCTIONS/EQUIPMENT/CAPABILITIES
PROCESS 500 UNITS OF WHOLE BLOOD AND COMPONENTS PER WEEK. PERFORM AUTOMATED BLOOD GROUPING FOR NEW INDUCTEES. PROVIDE A LARGE SUPPLY OF FROZEN BLOOD AND COMPONENTS TO DOD HOSPITALS. PERFORM CERTAIN SPECIALIZED AUDIO TESTS. HOLDING CAPABILITY FOR UP TO 100 PRIMATES. CONDUCT RESEARCH IN MILITARY BLOOD BANKING. CONDUCT ENLISTED BLOOD BANKING COURSE 311-F1. THE USAMKL WAS DISCONTINUED EFFECTIVE 1 JULY 1974. ITS MISSIONS, FUNCTIONS AND RESOURCES WERE TRANSFERRED TO THE LETTERMAN ARMY INSTITUTE OF RESEARCH, PRESIDIO OF SAN FRANCISCO, CA, AND TO THE US ARMY AEROMEDICAL RESEARCH LABORATORY, FT RUCKER, AL.

INSTALLATION MISSILE RES., DEV. AND ENGINEERING LAB

REDSTONE ARSENAL, AL.

C.O. MG VINCENT H. ELLIS

DIR. DR. JOHN L. MCDANIEL

PROGRAM	PROGRAM DATA BY FISCAL YEAR (MILLION \$)	
	1974 (ACTUAL)	1975 (ACT + EST)
TOTAL RDT&E	91.143	86.186
TOTAL PROCUREMENT	9.207	6.434
TOTAL O&M	5.462	4.420
TOTAL OTHER	0.704	0.704
TOTAL ANNUAL LAB	106.516	97.744
TOTAL INHOUSE	46.153	44.751
TOTAL INHOUSE RDT&E	32.229	34.750
ANNUAL OPERATING COST	6.989	7.576

PERSONNEL	PERSONNEL DATA (END OF FY 1974)			
	AUTHORIZED STRENGTH	TOTAL PHDS	TOTAL PROF	NON- PROF
MILITARY	40	9	32	8
CIVILIAN	1219	71	736	483
TOTAL	1259	80	768	491

ACRES	SPACE AND PROPERTY SPACE (THOUSANDS OF SQUARE FEET)			COST (MILLION \$)		
	LAB	ADMIN	OTHER	TOTAL	REAL PROP	EQUIP
11000	1168.000	262.000	408.000	1838.000	25.276	41.000

...MISSION

PLAN & CONDUCT RESEARCH, EXPLORATORY, AND ADVANCED DEVELOPMENT FOR ASSIGNED MATERIEL. EXECUTE MATERIEL DEV PROGRAMS NOT SELECTED FOR PROJ MGMT. PROVIDE SCIENTIFIC & ENGR SPT TO OTHER AMC OR DOD ELEMENTS WITH PROJ/SYS MGMT RESPONSIBILITY. DESIGN, DEV & FABRICATE PROTOTYPE MSL SYS COMPONENTS.

...CURRENT IMPORTANT PROGRAMS

LASER TECHNOLOGY AND APPLICATIONS
TERMINAL HOMING

FREE FLIGHT ROCKET SYSTEMS

SIMULATION RESEARCH

LIGHT ANTITANK WEAPON TECHNOLOGY (LAWT) PROGRAM

...FUNCTIONS/EQUIPMENT/CAPABILITIES

SYS. OPERATE ARMY INERTIAL GUID MGMT & TECH CTR & ARMY RKT PROP TECH AND MGMT CTR. PROVIDE SIMULATION SPT BY USE OF ADV SIMULATION FAC FOR EXPLORATORY, ADV, & ENGR DEV PROGS. SERVE AS AMC LEAD LAB FOR G&C/TERM HOMING & HI ENERGY LASER TECHNOLOGY. FACILITIES—ADVANCED SIM FAC WITH CENTRAL FREQUENCY SYS, LASER DESIGNATOR LAB, RF SHIELDED ANECHOIC CHAMBER, INSTRON PROTOTYPE FABRICATION FAC, LASER RADAR PROTOTYPE FAC, COMPOSITE STRUCTURES FAC, X-RAY DIFFRACTOMETER AND SPECTROGRAPH, STATIC TEST FAC, GAS DYNAMICS LASER TEST FAC, FLIGHT & TRACK TEST FAC, INTERACTIVE COMPUTR SYS ANALYZER, ELECTROMAGNETIC EFFECTS TEST FAC, HEAT TREATING FAC FOR MAT'L'S TESTING, AIRBORNE SENSOR MEASUREMENT PLATFORM, PROPELLANT EVALUATION AND ANALYSIS FAC, UNITRON VACUUM METALLOGRAPH, RADIATION HOMING MISSILE TEST BED FAC, ADVANCED RADAR DEVELOPMENT FACILITY.

INSTALLATION MOBILITY EQUIPMENT R&D CENTER

FT. BELVOIR, VA.

C.O. COL TENHO R. HUKKALA

ATG. TECH. DIR. MR. T. G. KIRKLAND

PROGRAM DATA BY FISCAL YEAR (MILLION \$)

PROGRAM	1974 (ACTUAL)	1975 (ACT + EST)
TOTAL RDT&E	47.530	48.903
TOTAL PROCUREMENT	24.162	32.000
TOTAL O&M	11.363	9.500
TOTAL OTHER	27.500	10.000
TOTAL ANNUAL LAB	110.555	100.403
TOTAL INHOUSE	27.914	29.271
TOTAL INHOUSE RDT&E	20.858	22.271
ANNUAL OPERATING COST	6.270	6.685

PERSONNEL DATA (END OF FY 1974)

PERSONNEL	AUTHORIZED STRENGTH	TOTAL PHDS	TOTAL PROF	NON- PROF
MILITARY	68	0	57	11
CIVILIAN	1578	25	500	1078
TOTAL	1646	25	557	1089

SPACE AND PROPERTY

ACRES	SPACE (THOUSANDS OF SQUARE FEET)	COST (MILLION \$)
	LAB ADMIN OTHER TOTAL	REAL PROP EQUIP
1060	679.478 110.624 160.538 950.640	24.236 31.000

...MISSION

BASIC AND APPLIED RSCH DESIGN DEV PRODUCT AND PRODUCTION ENGRG STDZN AND DESIGN TESTING AND TEST EVAL ON ASSIGNED ITEMS OF EQUIP. OVERALL SUPERVISION OF ARMY FUELS AND LUBS LAB. ENGRG AND PROC SPT OF TOPO EQUIP ASSIGNED MISSIONS TO SPT PROJECT OR COMMODITY MGT OF SPECIFIC ITEMS/SYS

...CURRENT IMPORTANT PROGRAMS

COUNTERMINE
CAMOUFLAGE
ELECTRIC POWER GENERATION AND DISTRIBUTION
FUELS AND FUELS HANDLING EQUIPMENT
SUPPLY DISTRIBUTION AND MATERIALS HANDLING EQUIPMENT

...FUNCTIONS/EQUIPMENT/CAPABILITIES

RADIO FREQUENCY ANECHOIC CHAMBER, MINE DETECTION FIELD TEST FACILITY, MINE NEUTRALIZATION LABORATORY, VEHICLE AUTOMATIC CLASSIFICATION AND IDENTIFICATION SIMULATOR, DATA COLLECTION VAN, SIMULATED BRAKE TEST UNIT, COMBUSTION LABORATORY, HIGH PRESSURE AIR COMPRESSOR TEST FACILITY, BRIDGE TEST FACILITY, FUELS HANDLING AND SURVEILLANCE AREA, POL ANALYSIS LAB, RAIL HUMP TEST FACILITY, POWER GENERATION TEST FACILITY, GENERATOR RELIAB TEST FACILITY, SIMULATED FREE FIELD SOUND CHAMBER ELECTROMAGNETIC INTERFERENCE SHIELD ENCLOSURE, BATTERY TEST FACILITY, SURFACE CHEMISTRY RSCH FACILITY, THYRISTOR TEST FACILITY, SUPERCONDUCTING THIN FILM FACILITY, HIGH MAGNETIC FIELD TEST FAC, AIR CONDITIONER LABORATORY, HUMAN FACTORS LABORATORY, NOISE MEASUREMENT AND ANALYSIS, COMPUTER CENTER, COMPUTER AID DESIGN AND ENGRG FAC, PICTORIAL SPT FAC, MATS RSCH FAC, CALIBRATION FAC

INSTALLATION NATICK LABORATORIES

NATICK, MASS.

C.O. COL RUFUS E. LESTER

TECH. DIR. DR. DALE H. SIELING

PROGRAM	PROGRAM DATA BY FISCAL YEAR (MILLION \$)	
	1974 (ACTUAL)	1975 (ACT + EST)
TOTAL RDT&E	22.066	17.241
TOTAL PROCUREMENT	1.539	0.952
TOTAL O&M	12.451	11.377
TOTAL OTHER	1.345	1.370
TOTAL ANNUAL LAB	37.401	30.940
TOTAL INHOUSE	26.531	27.006
TOTAL INHOUSE RDT&E	15.704	14.607
ANNUAL OPERATING COST	5.618	5.736

PERSONNEL	PERSONNEL DATA (END OF FY 1974)				NON- PROF
	AUTHORIZED STRENGTH	TOTAL PHDS	TOTAL PROF		
MILITARY	119	13	43		76
CIVILIAN	1167	97	459		708
TOTAL	1286	110	502		784

ACRES	SPACE AND PROPERTY				COST (MILLION \$)	
	SPACE (THOUSANDS OF SQUARE FEET)			TOTAL	REAL PROP	EQUIP
	LAB	ADMIN	OTHER			
2994	550.562	65.900	412.268	1028.730	25.366	13.847

...MISSION

ACCUM ASG R-D IN THE PHYS AND BIOL SCI AND ENG TO MEET MIL RQR IN THE COMMODITY AREAS OF TEX CLO BODY ARMOR ORG MATLS INSECT AND FUNG SUBS CNTRS FOOD SVC EQUIP FLD SPT EQUIP TENT AND EQUIP AND AIR DEL EQUIP. IN DESIG CMDTY AREAS PROV TECH AND ENG SPT IN CONNEC W/ACCOM OF AE AND STD.

...CURRENT IMPORTANT PROGRAMS

POLLUTION ABATEMENT STUDIES
ANAL MIL FOOD SVC SYS TO EST MODERN METH OF DETERMINING DAILY FOOD ALLOW
PERSONNEL ARMOR PROGRAM
FLEXIBLE PACKAGING SYSTEM FOR HEAT PROCESSED FOODS
WHOLESOMENESS OF RADAPPERTIZED BEEF

...FUNCTIONS/EQUIPMENT/CAPABILITIES

COBALT 60 IRRAD FACILITY DESIGNED FOR MAX FLEXIBILITY IN FOOD PROCESSING
BACTERIOLOGY LAB EQUIP FOR INVESTIGATIONS OF PATHOGENIC MICROORGANISMS
FLAME PROTECTION LAB AND FACILITY INCLUDING AN OUTDOOR FLAME PIT
HIGH RESOLUTION MASS SPECTROMETER FOR ANALYSIS OF VOLATILE COMPOUNDS
FOOD PROCESSING FAC FOR CONTROLLED PREPROCESSING AND PROC BY SEV TECHNIQ
LAB SUBSONIC WIND TUNNEL CAPABLE OF VELOCITIES UP TO 110 FEET PER SEC
HEAT TRANSFER LAB TO STUDY HEAT AND MASS TRANSPORT CHAR OF FABRICS
ELECTRON LINEAR ACCELERATOR DESIGNED FOR HIGH POWER OUTPUT IN FOOD PROV
DROP TEST FAC CONS OF 40 TON CAPACITY TRACKED CRANE AND A 50 FT BOOM
DYEING AND FINISHING LAB FOR CONDUCTING STUDIES OF TEXTILES
FEBETRON MACHINE USED AS A RADIA SOURCE FOR PULSE RADIOLYSIS STUDIES
RAIN ROOM DESIGNED TO DUPLICATE RAINFALL CORRESPONDING TO NATURAL RAIN

INSTALLATION NIGHT VISION LABORATORY

FT. BELVOIR, VA.

ATG. DIR. MR. DONALD J. LOOFT

ATG. DEP. DIR. MR. JOHN JOHNSON

PROGRAM	PROGRAM DATA BY FISCAL YEAR (MILLION \$)	
	1974 (ACTUAL)	1975 (ACT + EST)
TOTAL RDT&E	35.286	37.790
TOTAL PROCUREMENT	0.000	0.000
TOTAL O&M	0.000	0.000
TOTAL OTHER	0.000	0.000
TOTAL ANNUAL LAB	35.286	37.790
TOTAL INHOUSE	16.716	16.750
TOTAL INHOUSE RDT&E	16.716	16.750
ANNUAL OPERATING COST	0.000	0.000

PERSONNEL	PERSONNEL DATA (END OF FY 1974)				NON- PROF
	AUTHORIZED STRENGTH	TOTAL PHDS	TOTAL PROF		
MILITARY	37	1	28		9
CIVILIAN	395	30	196		199
TOTAL	432	31	224		208

ACRES	SPACE AND PROPERTY			COST (MILLION \$)		
	SPACE (THOUSANDS OF SQUARE FEET)			TOTAL	REAL PROP	EQUIP
	LAB	ADMIN	OTHER			
21	73.261	3.521	67.207	143.989	43.961	37.402

...MISSION

NVL IS RESPONSIBLE FOR PROVIDING THE ARMY WITH A NIGHT VISION CAPABILITY WITH THE GOAL OF CARRYING OUT NIGHT OPRNS WITH DAYLIGHT EFFICIENCY. THE SYS DEV PROG IS DEPENDENT ON AN NV TECHNOLOGY BASE CONSISTING OF THE DISCIPLINES OF IMAGE INTENS, FAR IR, RAD SOURCES AND VISIONICS.

...CURRENT IMPORTANT PROGRAMS

FIR COMMON MODULE FOR UNIVERSAL APPLICATIONS
VISIONICS TECHNOLOGY
COMMON TOW/NODLR NIGHT SIGHT COOLER PROGRAM
MASS FLIR PROGRAM
THIRD GENERATION IMAGE INTENSIFIER PROGRAM

...FUNCTIONS/EQUIPMENT/CAPABILITIES

NVL'S MOST SIGNIFICANT FACILITY CAPABILITIES ARE AS FOLLOWS: SEMI-CONDUCTOR MATERIALS RESEARCH FACILITY, VISIONICS RESEARCH FACILITY, ELECTRO OPTICAL IMAGE TUBE FACILITIES, SEMI-CONDUCTOR LASER RESEARCH FACILITY, SURFACE RESEARCH FACILITY, SPECTROPHOTOMETRIC FACILITY, DETECTOR FABRICATION FACILITY, ELECTRONIC FABRICATION AND TEST FACILITY, CLOSED CYCLE MECHANICAL COOLER FACILITY, AND THE INFRARED TV CAMERA TUBE FACILITY.

INSTALLATION PICATINNY ARSENAL LABORATORIES

DOVER, N.J.

C.O. COL J.L. HOLMAN, JR.

TECH. DIR. MR. H.W. PAINTER

PROGRAM	PROGRAM DATA BY FISCAL YEAR (MILLION \$)	
	1974 (ACTUAL)	1975 (ACT + EST)
TOTAL RDT&E	68.600	75.000
TOTAL PROCUREMENT	4.900	2.200
TOTAL OEM	9.100	9.200
TOTAL OTHER	0.000	0.000
TOTAL ANNUAL LAB	82.600	86.400
TOTAL INHOUSE	57.500	59.000
TOTAL INHOUSE RDT&E	44.600	48.000
ANNUAL OPERATING COST	9.900	10.800

PERSONNEL	PERSONNEL DATA (END OF FY 1974)			
	AUTHORIZED STRENGTH	TOTAL PHDS	TOTAL PROF	NON- PROF
MILITARY	54	0	39	15
CIVILIAN	2865	52	1149	1716
TOTAL	2919	52	1188	1731

ACRES	SPACE AND PROPERTY SPACE (THOUSANDS OF SQUARE FEET)			COST (MILLION \$)		
	LAB	ADMIN	OTHER	TOTAL	REAL PROP	EQUIP
5848	595.570	671.657	2613.626	3880.853	74.536	61.251

...MISSION

CEN FOR LIFE CYCLE FUNC FOR BASIC AND APPLIED RSCH THRU DEVMT AND ENGRG OF NUC AND CONVL MUNS SUCH AS MINES, GRENS, RKT AND MSL. PROJES, FUZES, EXPLOS, PYRO, PROP, MATS, PHYS AND ENGRG SCIENCE, DIGITAL AND CG COMPUTING. PROCS ALL NUC AND ASG CONVL MUNS. OPS ARMY EODC, DOD PLAS. LG CENTER.

...CURRENT IMPORTANT PROGRAMS

PROJECTILE 155MM ANTITANK XM718
MINE DISPERSING, SUBSYSTEM, AIRCRAFT XM56
TACTICAL EARTH PENETRATING WARHEADS-PHASE I STUDY
ENVIRONMENTAL QUALITY-RDT&E
NON-NUCLEAR WARHEAD FOR DIV SUPPORT MISSILE LANCE

...FUNCTIONS/EQUIPMENT/CAPABILITIES

NUC WPNS, PROTOTYPE FAB AND ASSY, AND EXPLOS AND PROP PLT PLANTS PROV COMPL INTRGED FAC FOR ASSY, INSP AND TEST OF AK AND CONVL MUNS AND COMPS AND THE MFG AND PROCG OF X EXPLOS AND PROP COMP. THE EXPLOS, PYRO, PROP, MATLS AND QA LABS HAVE UNUSUAL EQUIP FOR RSCH, RELIABILITY AND QA SUCH AS BETATRON, DYNAMITRON, HIGH SPEED PHOTO AND SHOCK LOAD FAC, HIGH ALT TEST CHAMBERS, ELECTROMAGNETIC RADIATION INSP ETC. THE DEVMT AND ENVIRONMENTAL TEST AND EVAL FAC HAVE MAJOR CPBLTY AS STATIC AND DYNAMIC TEST RGS, DROP TOWERS, DUD RECOVY AND DISASSEMBLY, RF VULNERABILITY, COMPL ENVIRONMENTAL SIM, TARGET EFFS ETC. OTHER EQUIP INCL VIBRATORS FOR LOADS TO 2000 LB, STATIC RKT TEST RG, 2540 TON HYDROSTATIC PRESS, CMPT TAPE CON MFG EQUIP, VARIETY OF FUZE EVAL EQUIP, CLOSED CIRCUIT TV, HIGH ACCEL SLED TRACK.

INSTALLATION R&D TECHNICAL SUPPORT ACTIVITY

FT. MONMOUTH, N.J.

DIR. MR. SALVATORE E. PETRILLO

PROGRAM	PROGRAM DATA BY FISCAL YEAR (MILLION \$)	
	1974 (ACTUAL)	1975 (ACT + EST)
TOTAL RDT&E	9.271	10.566
TOTAL PROCUREMENT	1.255	1.320
TOTAL O&M	0.050	0.062
TOTAL OTHER	0.107	0.102
TOTAL ANNUAL LAB	10.683	12.050
TOTAL INHOUSE	10.507	11.850
TOTAL INHOUSE RDT&E	9.139	10.366
ANNUAL OPERATING COST	3.607	3.665

PERSONNEL	PERSONNEL DATA (END OF FY 1974)			NON- PROF
	AUTHORIZED STRENGTH	TOTAL PHDS	TOTAL PROF	
MILITARY	1	0	0	1
CIVILIAN	686	0	102	584
TOTAL	687	0	102	585

ACRES	SPACE AND PROPERTY SPACE (THOUSANDS OF SQUARE FEET)			COST (MILLION \$)		
	LAB	ADMIN	OTHER	TOTAL	REAL PROP	EQUIP
136	17.826	34.599	77.415	129.840	8.400	6.937

...MISSION

VULNERABILITY ANALYSIS
ANTENNA MASTS AND MECHANICAL STRUCTURES
VEHICULAR MARINE CRAFT AND SHELTER INSTALLATIONS
COMPUTER AIDED DESIGN TECHNIQUES

...CURRENT IMPORTANT PROGRAMS

MECHANICAL ENGINEERING - AIRBORNE AND GROUND EQUIPMENT
VULNERABILITY ANALYSIS
ENVIRONMENTAL CRITERIA AND TEST FACILITIES
VEHICULAR MARINE CRAFT AND SHELTER INSTALLATIONS
COMPUTER AIDED DESIGN ENGINEERING AND MANUFACTURING

...FUNCTIONS/EQUIPMENT/CAPABILITIES

ELECTROMAGNETIC COMPATIBILITY FOR RFI
ENVIRONMENTAL CONTROL SYSTEMS
ENVIRONMENTAL TEST FACILITIES
MATHEMATICAL COMPUTATIONS AND STATISTICS
EQUIPMENT DESIGN AND DRAFTING
SPECIFICATION ENGINEERING
AIRCRAFT VIBRATION MEASUREMENTS
COMPUTER AIDED DESIGN FABRICATION
MODEL SHOP FABRICATION - ALL CRAFTS
METROLOGY
TEST MEASURING EQUIPMENT CALIBRATION AND REPAIRS
COMPUTER AIDED MANUFACTURING ENGINEERING

INSTALLATION RESEARCH INST FOR BEHAVIORAL & SOCIAL SCI WASHINGTON, D.C.

C.O. COL R.A. RUTH

TECH. DIR. DR. J.E. UHLANER

PROGRAM	PROGRAM DATA BY FISCAL YEAR (MILLION \$)	
	1974 (ACTUAL)	1975 (ACT + EST)
TOTAL RDT&E	14.761	15.448
TOTAL PROCUREMENT	0.000	0.000
TOTAL O&M	0.000	0.000
TOTAL OTHER	0.000	0.000
TOTAL ANNUAL LAB	14.761	15.448
TOTAL INHOUSE	3.451	4.960
TOTAL INHOUSE RDT&E	3.451	4.960
ANNUAL OPERATING COST	0.799	0.814

PERSONNEL	PERSONNEL DATA (END OF FY 1974)				NON- PROF
	AUTHORIZED STRENGTH	TOTAL PHDS	TOTAL PROF		
MILITARY	69	2	21		48
CIVILIAN	218	69	124		94
TOTAL	287	71	145		142

ACRES	SPACE AND PROPERTY			COST (MILLION \$)		
	LAB	ADMIN	OTHER	TOTAL	REAL PROP	EQUIP
0	35.564	4.318	9.248	49.130	0.098	1.474

...MISSION

RSCH AND DEV PRGMS IN BEH AND SOC SCI FOR DEPT ARMY IN IND TRNG AND PERF AND IN ORG SYS. PRGMS INCL RSCH: TO IMPRV TRNG AND TO INCR CAP OF SOL TO RSLVE PERS-INTRPERS PROBS, TO IMPRV DISTR MNPWR, ENHANCE EFF OF GRPS IN CMD-CNTRL, IMPRV PERF OF GRPS IN MIL SYS THRU ORG DEV, IMRRV UNIT LDRSH

...CURRENT IMPORTANT PROGRAMS

ASSESS LEADER TRAINING AND DEVELOPMENT METHODS FOR CADETS AND OFFICERS
IMPROVE CLASSIFICATION TRAINING AND PERFORMANCE OF ENLISTED RECRUITS
IMPROVEMENT IN TRAINING OF ROTARY-WING AVIATOR PERFORMANCE ND ADV TRNG
DEVELOPMENT OF EMBEDDED CAI PACKAGES FOR FUTURE TACTICAL DATA SYSTEMS
IMPROVED COMBAT TRAINING THRU REALISTIC ENGAGEMENT SIMULATORS

...FUNCTIONS/EQUIPMENT/CAPABILITIES

ELEVEN CONUS FIELD UNITS AND ONE EACH IN EUROPE AND KOREA SUPPORT THE IN-HOUSE RSCH PROGRAM IN HUMAN PERFORMANCE EXPERIMENTATION, MANNED SYSTEMS, TACTICAL OFFICER LEADERSHIP, UNIT TRNG AND SOCIAL PROCESSES FY74
ACQUISITION OF COMPUTER-DRIVEN GRAPHICS CAPABILITY GREATLY INCREASES
EXPERIMENTAL RESOURCES FOR RESEARCH WITH SIMULATE, TACTICAL SITUATIONS,
USE OF RESERVE COMPUTER CAPACITY AND TERMINAL TIME SHARING HAS ENABLED
AN IN-HOUSE MGMT INFORMATION PROGRAM TO BE INITIATED

INSTALLATION RESEARCH INSTITUTE OF ENVIRONMENTAL MEDICINE NATICK, MASS.

C.O. COL LEEROY G. JONES

PROGRAM	PROGRAM DATA BY FISCAL YEAR (MILLION \$)	
	1974 (ACTUAL)	1975 (ACT + EST)
TOTAL RDT&E	3.282	3.452
TOTAL PROCUREMENT	0.000	0.000
TOTAL O&M	0.000	0.000
TOTAL OTHER	0.682	0.719
TOTAL ANNUAL LAB	3.964	4.171
TOTAL INHOUSE	3.964	4.171
TOTAL INHOUSE RDT&E	3.282	3.452
ANNUAL OPERATING COST	1.005	1.041

PERSONNEL	PERSONNEL DATA (END OF FY 1974)			
	AUTHORIZED STRENGTH	TOTAL PHDS	TOTAL PROF	NON- PROF
MILITARY	84	20	50	34
CIVILIAN	102	19	41	61
TOTAL	186	39	91	95

ACRES	SPACE AND PROPERTY SPACE (THOUSANDS OF SQUARE FEET)			COST (MILLION \$)		
	LAB	ADMIN	OTHER	TOTAL	REAL PROP	EQUIP
4	60.421	18.563	28.647	107.631	3.663	1.800

...MISSION

CONDUCTS RSCH ON THE INTERACTION OF CLOTHING AND EQUIPMENT WITH WORK PHYSIOLOGY AND THE EFFECTS OF EXTREME HEAT, COLD AND HIGH TERRESTRIAL ALTITUDE ON PHYSIOLOGICAL AND FUNCTIONAL CAPACITY, AND METHODS FOR REDUCING THOSE EFFECTS.

...CURRENT IMPORTANT PROGRAMS

PREVENTION AND TREATMENT OF DISABILITIES DUE TO MILITARY OPERATIONS IN EXTREME ENVIRONMENTS. PREDICTION OF LIMITS OF MILITARY PERFORMANCE AS A FUNCTION OF ENVIRONMENT, CLOTHING AND EQUIPMENT. MEDICAL PROBLEMS IN MILITARY ARCTIC OPERATIONS. BIOLOGICAL PROCESSES THAT LIMIT HEAVY PHYSICAL WORK. EVALUATION OF ARMY PHYSICAL TRAINING PROGRAMS.

...FUNCTIONS/EQUIPMENT/CAPABILITIES

CONDUCT RESEARCH AND PROVIDE GUIDANCE TO DESIGNERS, ENGINEERS, TACTICIANS, PLANNERS AND PHYSICIANS ON MILITARY PERFORMANCE AND CASUALTY PREVENTION AND TREATMENT IN EXTREME CLIMATES AND ENGINEERED ENVIRONMENTS. ADVISE ON HEALTH AND SAFETY IN MANEUVERS DURING HEAT, COLD OR HYPOXIC STRESS, TREAT COLD CASUALTIES AT BASSETT ARMY HOSPITAL, ALASKA. IN HUMAN AND ANIMAL RESEARCH, USE APPROXIMATELY 50 VOLUNTEER TEST SUBJECTS AND EXTENSIVE CLIMATIC CHAMBERS OF USANLABS PLUS MANY SMALLER CHAMBERS, EXTENSIVE ANIMAL CARE FACILITIES, ELECTRON MICROSCOPE, UNDERWATER RESEARCH POOL, COPPER MANIKINS, AND DIVERSE EQUIPMENT FOR BIOCHEMICAL, BIOPHYSICAL, MEDICAL, PHYSIOLOGICAL, PHARMACOLOGICAL, AND PSYCHOLOGICAL MEASUREMENT.

INSTALLATION ROCK ISLAND ARSENAL LABORATORIES

ROCK ISLAND, IL.

C.O. COL T.F. ANGOR, JR.

TECH. DIR. DR. ROYCE E BECKETT

PROGRAM	PROGRAM DATA BY FISCAL YEAR (MILLION \$)	
	1974 (ACTUAL)	1975 (ACT + EST)
TOTAL RDT&E	16.054	14.772
TOTAL PROCUREMENT	4.780	4.535
TOTAL O&M	3.500	4.145
TOTAL OTHER	0.173	0.152
TOTAL ANNUAL LAB	26.507	23.604
TOTAL INHOUSE	15.997	18.048
TOTAL INHOUSE RDT&E	9.996	10.541
ANNUAL OPERATING COST	5.080	5.602

PERSONNEL	PERSONNEL DATA (END OF FY 1974)				NON-PROF
	AUTHORIZED STRENGTH	TOTAL PHDS	TOTAL PROF		
MILITARY	13	5	13		0
CIVILIAN	703	19	336		367
TOTAL	716	24	349		367

ACRES	SPACE AND PROPERTY SPACE (THOUSANDS OF SQUARE FEET)			TOTAL	COST (MILLION \$)	
	LAB	ADMIN	OTHER		REAL PROP	EQUIP
18	123.617	224.732	206.679	555.028	3.940	7.957

...MISSION

ADVANCED MEDIUM CALIBER WEAPON 30MM
 & CONVL ARTY LANH DVC FOR BOTH CONVL SHL & H CAP BST RKT ARTY SHL, EXCL
 FREE RKT GM,BAL MSL,TGT MSL & RELATED LANH & GSE.CLIPS LK & MAG FLR FOR
 CONVL AMMO,TK,SP ARTY & ASGO SPV.CUPOLA,RCL & MT.ELEV & TRAV MECH

...CURRENT IMPORTANT PROGRAMS

GUN LOW ALTITUDE AIR DEFENSE SYSTEM
 HOWITZER 105MM SOFT RECOIL XM204
 SQUAD AUTOMATIC WEAPON
 COHERENT OPTICAL ADAPTIVE TECHNIQUES
 BEAM RIDER PROJECTILES FOR DIRECT FIRE SYSTEMS

...FUNCTIONS/EQUIPMENT/CAPABILITIES

FAC CAPABILITY-RNG FAC PERMIT FIRING ARTY WPN OF 105MM SIZE OR SMALLER
 USING INRT PJCTL AT 0 DEGREES EL INTO PRF BUTT AT 100 YDS DIST, WPN FIR
 AT EL USING DISINTEGRATING PJCTL LOADED W/WET SAND,RNG BLDG HSG INDOOR
 RNG.2 ARE 100 MIR.1 CLIMATIC CHMBR RNG 1000 IN W/CONT HMD TEMP OF -901
 PLUS 200 DEGREE F. : 1000 IN WPN MT SIM RNG. ANY SA WPN THRU 40MM CAN
 BE FIRED,LATTER RNG 25 W,20 * PERMITS FIRING FROM TK OR HLCPTR.ACCESS TO
 IBM 360/65 COMPUTATION CENTER.PROTOTYPE SHOP IN SUPPORT OF RTE.
 MAJOR EQUIP-ILLUAREDMAT 1200. CMPTR GRPHS. MT INSTN SYS.VAR FLEXIBILITY
 GUN MT. PROTOTYPE HIGH-SPEED SCNG IR RADIOMETER SYS. HOLOGRAPHIC SYS.
 VAR ANGLE HLCPTR MT. ALPHA LUBT TESTER MODEL LTW3.MOTION TABLE FOR SMALL
 TURRET STBLN TESTING. HYDR FLOW SIM-HYFLOS. SMALL TURRET FIRING FIXTURE,
 NON-FIRING AUTO AMMO LOADER FOR TANKS. THERM ENVIR SIM EQUIP FOR WPN SYS

INSTALLATION TANK-AUTOMOTIVE LABORATORIES

WARREN, MI.

C.O. MG J.E. PIEKLIK

DIR. RD&E LTC R.E. PHILIPP

PROGRAM	PROGRAM DATA BY FISCAL YEAR (MILLION \$)	
	1974 (ACTUAL)	1975 (ACT + EST)
TOTAL RD&E	24.089	22.271
TOTAL PROCUREMENT	17.900	24.100
TOTAL O&M	7.044	10.423
TOTAL OTHER	0.381	0.413
TOTAL ANNUAL LAB	49.414	57.207
TOTAL INHOUSE	24.813	25.879
TOTAL INHOUSE RD&E	12.786	13.069
ANNUAL OPERATING COST	4.269	4.350

PERSONNEL	PERSONNEL DATA (END OF FY 1974)				NON-PROF
	AUTHORIZED STRENGTH	TOTAL PHDS	TOTAL PROF		
MILITARY	34	1	18		16
CIVILIAN	905	7	388		517
TOTAL	939	8	406		533

ACRES	SPACE AND PROPERTY				COST (MILLION \$)	
	SPACE (THOUSANDS OF SQUARE FEET)	LAB	ADMIN	OTHER	TOTAL	REAL PROP
125	644.281	0.000	0.000	644.281	20.970	10.648

...MISSION
RESPONSIBLE FOR RESEARCH, CONCEPT, DESIGN, DEVELOPMENT, FABRICATION, ADVANCED PRODUCTION ENGINEERING, SUPPORT TO PRODUCTION, FOR PRESENT AND FUTURE VEHICLES SYSTEMS AND SUB-SYSTEMS OF TANK-AUTOMOTIVE MATERIEL AND ITS FUTURE SCIENCES

...CURRENT IMPORTANT PROGRAMS
AUTOMATIC TEST EQPT FOR INTERNAL COMBUSTION ENGINE POWERED MATERIEL
VALIDATION AND EXTENSION OF MOBILITY EVALUATION METHODOLOGY
HIGH MOBILITY TACTICAL VEHICAL SYSTEMS
HYBRID ENGINE DEVELOPMENT
RIVERINE RESEARCH

...FUNCTIONS/EQUIPMENT/CAPABILITIES
VEHICLE BRAKE DYNAMOMETER
VEHICLE SUBSYSTEM INTEGRATION
ANALYTICAL PREDICTION OF MILITARY VEHICLE PERFORMANCE
VEHICLE MOTION SIMULATOR
RIVER SIMULATOR FACILITY AND LAND LOCOMOTION SOIL BINS
MINE PROTECTION
VEHICLE SIGNATURE PROGRAM
VALIDATION OF THE AMC MOBILITY MODEL
SIX DEGREE OF FREEDOM SIMULATOR
METAL ANAL WITH MICROPROBE ELECTRON MICROSCOPE ANALYZER AND TECHNIQUES
DEVELOPMENT OF IMPROVED ARMOR WELDING AND FABRICATION
LOW TEMPERATURE, SHOCK AND VIBRATION TEST FACILITIES

INSTALLATION TROPIC TEST CENTER

FT. CLAYTON, C.Z.

C.O. COL ARNOLD M. SARGENT

TECH. DIR. MR. FRANK S. MENDEZ

PROGRAM	PROGRAM DATA BY FISCAL YEAR (MILLION \$)	
	1974 (ACTUAL)	1975 (ACT + EST)
TOTAL RDT&E	2.339	2.896
TOTAL PROCUREMENT	0.006	0.019
TOTAL O&M	0.008	0.090
TOTAL OTHER	1.159	1.189
TOTAL ANNUAL LAB	3.512	4.194
TOTAL INHOUSE	3.512	4.194
TOTAL INHOUSE RDT&E	2.339	2.896
ANNUAL OPERATING COST	0.508	0.556

PERSONNEL	PERSONNEL DATA (END OF FY 1974)			
	AUTHORIZED STRENGTH	TOTAL PHDS	TOTAL PROF	NON- PROF
MILITARY	89	0	23	66
CIVILIAN	83	5	15	68
TOTAL	172	5	38	134

ACRES	SPACE AND PROPERTY SPACE (THOUSANDS OF SQUARE FEET)			COST (MILLION \$)		
	LAB	ADMIN	OTHER	TOTAL	REAL PROP	EQUIP
18870	12.455	58.244	156.417	227.116	1.128	1.762

...MISSION

PLAN AND CONDUCT ENVIRONMENTAL PHASES OF DEVELOPMENT TYPE TESTING.
(ENGINEERING)(SERVICE),CHECK AND CONFIRMATION TESTS.

...CURRENT IMPORTANT PROGRAMS

IN-HOUSE LABORATORY INDEPENDENT RESEARCH (ILIR).
RELIABILITY AND MAINTAINABILITY OF MATERIEL IN THE TROPICS.
RADIO FREQUENCY COMMUNICATIONS TEST PROCEDURES.
CHAMBER VS ENVIRONMENTAL DETERIORATION TESTS.
EXPOSURE / PERFORMANCE TESTS OF SELECTED MATERIEL ITEMS.

...FUNCTIONS/EQUIPMENT/CAPABILITIES

EVALUATE AND RECOMMEND AS TO TEST ITEM SUITABILITY FOR PRESCRIBED USE.
RECOMMEND TO HQ,TECOM,RESEARCH PROJECTS IN SUPPORT OF ARMY RDT&E.
PLAN AND SUPPORT RDT&E ACTIVITIES FOR DOD OR OTHER GOVERNMENT AGENCIES.
NATURAL TROPICAL ENVIRONMENT.FIRING RANGES UP TO 105MM CALIBER.
NATURAL TERRAIN MOBILITY COURSES.AMMO TEST STORAGE AND FUNCTIONING AREAS
BIOCHEMISTRY,ELECTRONICS,SOILS,HUMAN FACTORS,AND CALIBRATIONURS, AND
LABORATORIES.JUNGLE GRASS AND COASTAL MATERIEL EXPOSURE SITES.JUNGLE
RADIO RANGING SITES.MAN-PACK PORTABILITY COURSE.
CALIBRATED SEISMIC DETECTION AND CHEMICAL TEST GRIDS.PHOTOGRAPHIC
SUPPORT FACILITY.technical operations support facility.POL TANK FARM.

INSTALLATION WALTER REED ARMY INSTITUTE OF RESEARCH

WASHINGTON, D.C.

C.O. COL EDWARD L. BUESCHER

PROGRAM	PROGRAM DATA BY FISCAL YEAR (MILLION \$)	
	1974 (ACTUAL)	1975 (ACT + EST)
TOTAL RDT&E	13.632	14.000
TOTAL PROCUREMENT	0.000	0.000
TOTAL O&M	2.550	2.576
TOTAL OTHER	6.049	6.381
TOTAL ANNUAL LAB	22.231	22.957
TOTAL INHOUSE	22.231	22.957
TOTAL INHOUSE RDT&E	13.632	14.000
ANNUAL OPERATING COST	3.420	3.380

PERSONNEL	PERSONNEL DATA (END OF FY 1974)				NON-PROF
	AUTHORIZED STRENGTH	TOTAL PHDS	TOTAL PROF		
MILITARY	568	190	297		271
CIVILIAN	640	70	214		426
TOTAL	1208	260	511		697

ACRES	SPACE AND PROPERTY				COST (MILLION \$)	
	SPACE (THOUSANDS OF SQUARE FEET)				REAL PROP	EQUIP
	LAB	ADMIN	OTHER	TOTAL		
1177	401.300	47.900	12.220	461.420	0.000	16.349

...MISSION

CONDUCT GENERAL MEDICAL RESEARCH AND RSCH IN AREAS OF COMMUNICABLE DISEASES AND IMMUNOLOGY, COMBAT SURGERY, COMBAT PSYCHIATRY, DRUG ABUSE, GASTROINTESTINAL DISEASES, RENAL DISEASES, HEMATOLOGY, AND THE BIOLOGICAL EFFECTS OF MICROWAVE IRRADIATION AND LASERS.

...CURRENT IMPORTANT PROGRAMS

TO DISCOVER EFFECTIVE PREVENTION AND TREATMENT AGENTS FOR CONTROL OF 'DRUG REFRACTORY' MALARIA. TO DEVELOP MODES FOR CONTROL OF MENINGOCOCCAL AND OTHER RESPIRATORY DISEASES OF RECRUITS. TO DEFINE THE ECOLOGY OF DRUG ABUSE IN SOLDIERS. MOLECULAR PHARMACOLOGY STUDIES OF CHEMOTHERAPEUTIC DRUGS, DEVELOP IMPROVED SURGICAL MGT OF COMBAT CASUALTIES.

...FUNCTIONS/EQUIPMENT/CAPABILITIES

RESEARCH, TEACHING AND REFERENCE LABORATORY SERVICES SUMMARIZE MAJOR FUNCTIONS IN AREAS OF PREVENTIVE MEDICINE, INFECTIOUS DISEASES, SURGERY, NEUROPSYCHIATRY RELATED DISEASES, INTERNAL MEDICINE, MEDICAL CHEMISTRY, AND BASIC MEDICAL SCIENCES. WRAIR HAS HIGHLY SOPHISTICATED MEDICAL EQUIPMENT IN ALL AREAS OF INVESTIGATION: ELECTRON MICROSCOPES, AUTOMATED CHEMICAL ANALYSIS SYSTEMS, CHEMICAL TYPEWRITERS, BEHAVIORAL RESEARCH INSTRUMENTATION. WRAIR MAINTAINS LABORATORY RESEARCH FACILITIES AT FT MEADE, MD. & EDGEWOOD ARSENAL, MD. & SEATO HQ, BANGKOK, THAILAND & BRAZIL, SOUTH AMERICA, KENYA, AFRICA, AND PANAMA.

INSTALLATION WHITE SANDS MISSILE RANGE

WHITE SANDS MR, N.M.

C.O. MG ROBERT J. PROUDFOOT

TECH. DIR. DR. RICHARD H. DUNCAN

PROGRAM	PROGRAM DATA BY FISCAL YEAR (MILLION \$)	
	1974 (ACTUAL)	1975 (ACT + EST)
TOTAL RDT&E	91.009	92.568
TOTAL PROCUREMENT	3.033	3.545
TOTAL O&M	2.508	2.460
TOTAL OTHER	9.704	9.272
TOTAL ANNUAL LAB	106.254	107.845
TOTAL INHOUSE	82.612	84.742
TOTAL INHOUSE RDT&E	67.710	69.700
ANNUAL OPERATING COST	26.796	30.504

PERSONNEL	PERSONNEL DATA (END OF FY 1974)			
	AUTHORIZED STRENGTH	TOTAL PHDS	TOTAL PROF	NON- PROF
MILITARY	841	0	306	535
CIVILIAN	3143	5	562	2581
TOTAL	3984	5	868	3116

ACRES	SPACE AND PROPERTY SPACE (THOUSANDS OF SQUARE FEET)			COST (MILLION \$)		
	LAB	ADMIN	OTHER	TOTAL	REAL PROP	EQUIP
4458030	1460.547	431.027	2844.790	4736.364	171.297	159.131

...MISSION

MISSION-OPERATE A NATIONAL MISSILE RANGE FOR SUPPORT OF ALL APPROVED MISSILE AND RELATED TEST PROGRAMS. INDEPENDENTLY TEST AND EVALUATE ARMY MISSILE AND ROCKET SYSTEMS. ENGINEER AND DEVELOP RANGE INSTRUMENTATION SYSTEMS FOR GATHERING TEST DATA.

...CURRENT IMPORTANT PROGRAMS

PULSE-DOPPLER RADAR APPLICATIONS. DISTANT OPTICAL ATTITUDE MEASURING SYSTEM. USE OF GEOS C SATELLITE TO CALIBRATE RADARS. LASER RANGING AND TRACKING SYSTEM. TESTING OF DRONE FORMATION CONTROL SYSTEM FOR MULTIPLE ENGAGEMENT AIR DEFENSE.

...FUNCTIONS/EQUIPMENT/CAPABILITIES

GROUND AND FLIGHT SAFETY. OBTAINING FLIGHT TRAJECTORY AND EVENT DATA. RECOVERING MISSILES OR PORTIONS THEREOF. REDUCING AND PUTTING INTO READABLE FORMS DATA COLLECTED BY RANGE INSTRUMENTS. ENGINEERING AND DEVELOPMENT OF RANGE INSTRUMENTATION. INDEPENDENTLY TEST AND EVALUATE ARMY WEAPONS SYSTEMS. EVALUATE GUIDANCE AND CONTROL SYSTEMS, STRUCTURAL INTEGRITY, PROPULSION SYSTEMS, ELECTROMAGNETIC RADIATION EFFECTS. ANALYSIS OF CHEMICAL AND METALLOGRAPHIC EFFECTS, MICROBIOLOGICAL EFFECTS, CLIMATIC ENVIRONMENTAL EFFECTS. TEST AND EVALUATE WARHEADS AND SPECIAL WEAPONS. WEAPONS SIMULATION. NUCLEAR EFFECTS TESTING. SOLAR FURNACE. COUNTER-COUNTER MEASURES TESTING. ELECTRONIC AND OPTICAL TRACKING SENSORS AND DATA TRANSMISSION REQUIRED TO PROVIDE TEST DATA ON MISSILES AND RELATED PROGRAMS.

INSTALLATION YUMA PROVING GROUND

YUMA, ARIZONA

C.O. COL HUGH H. PATILLO

TECH. DIR. RICHARD H. MILLER

PROGRAM	PROGRAM DATA BY FISCAL YEAR (MILLION \$)	
	1974 (ACTUAL)	1975 (ACT + EST)
TOTAL RDT&E	13.511	16.521
TOTAL PROCUREMENT	3.241	1.419
TOTAL O&M	0.941	0.806
TOTAL OTHER	11.395	6.397
TOTAL ANNUAL LAB	29.088	25.138
TOTAL INHOUSE	22.544	23.279
TOTAL INHOUSE RDT&E	13.511	16.521
ANNUAL OPERATING COST	6.507	7.995

PERSONNEL	PERSONNEL DATA (END OF FY 1974)				NON-PROF
	AUTHORIZED STRENGTH	TOTAL PHDS	TOTAL PROF		
MILITARY	326	1	38		288
CIVILIAN	782	0	156		626
TOTAL	1108	1	194		914

ACRES	SPACE AND PROPERTY				COST (MILLION \$)	
	LAB	ADMIN	OTHER	TOTAL	REAL PROP	EQUIP
1078482	0.000	75.635	1244.707	1320.342	36.006	70.874

...MISSION
 PLAN, CONDUCT, SPT ET AIR DEL EQUIP, RNCE TUBE ARTY, ACFT WPNS SYS
 PLAN, CONDUCT, RPT DESERT AND ARCTIC ENVIRONMENTAL TESTS
 PROVIDE TEST, EVAL ADVICE, GUIDANCE TO MAT DEVELPRS, PRODUCERS, PRI IND ETC
 CONDUCT OTHER TESTS AND EVAL AS DIRECTED BY CDR, TECOM

...CURRENT IMPORTANT PROGRAMS
 ED PROJ 8IN KAP XM650
 PI PROJ 155MM XM483
 ED V-150 ARMORED CAR
 ET PROJ 155MM ADAM XM692
 ET TLW AIRBORNE TEST SYS

...FUNCTIONS/EQUIPMENT/CAPABILITIES
 BALLISTIC MEASUREMENT RANGES
 ENGINEERING TEST FACILITIES
 VEHICLE FILLU TEST FACILITIES
 INSTRUMENTAL ARTILLERY RANGE
 INSTRUMENTAL AIRCRAFT ARMAMENT RANGE
 INSTRUMENTED DROP ZONES
 RADIC TELIMETRY
 SCIENTIFIC COMPUTER CENTER
 RANGE TIMING
 REAL TIME CINETHODOLITE SYSTEM
 LASER RANGE TRACKER
 INSTRUMENTATION CALIBRATION FACILITY

INSTALLATION ENVIRONMENTAL PREDICTION RESEARCH FACILITY MONTEREY, CA.
C.O. CAPT G.L. HAMILTON

PROGRAM	PROGRAM DATA BY FISCAL YEAR (MILLION \$)	
	1974 (ACTUAL)	1975 (ACT + EST)
TOTAL RLT&E	2.073	2.022
TOTAL PROCUREMENT	0.159	0.055
TOTAL DEM	0.000	0.000
TOTAL OTHER	0.271	0.270
TOTAL ANNUAL LAB	2.503	2.347
TOTAL INHOUSE	1.258	1.311
TOTAL INHOUSE RLT&E	0.995	1.048
ANNUAL OPERATING COST	0.154	0.170

PERSONNEL	PERSONNEL DATA (END OF FY 1974)			
	AUTHORIZED STRENGTH	TOTAL PHDS	TOTAL PROF	NON- PROF
MILITARY	16	1	7	9
CIVILIAN	31	2	20	11
TOTAL	47	3	27	20

ACRES	SPACE AND PROPERTY			COST (MILLION \$)		
	SPACE (THOUSANDS OF SQUARE FEET)	LAB	ADMIN	OTHER	TOTAL REAL PROP	EQUIP
0	1.806	5.012	10.440	17.260	0.000	0.812

...MISSION
CONDUCT RESEARCH AND DEVELOPMENT DIRECTED TOWARDS PROVIDING EFFECTIVE
LOCAL, REGIONAL AND GLOBAL ENVIRONMENTAL ANALYSIS AND PREDICTION
TECHNIQUES AND PROVIDE PLANNING, MODELING AND EVALUATION SERVICES FOR
THE NAVAL MODIFICATION PROGRAM.

...CURRENT IMPORTANT PROGRAMS
IMPROVED TECHNIQUES FOR APPLICATIONS OF ENVIRONMENTAL SATELLITE DATA.
IMPROVED NUMERICAL MODELS OF THE ATMOSPHERE.
HYDRODYNAMICAL NUMERICAL MODELING OF WATER LEVELS, CURRENTS, ETC.
IMPROVED ENVIRONMENTAL DATA PRESENTATION METHODS.
COMPUTER SIMULATION OF FOG/CLOUD AND PRECIP. MICROPHYSICAL PROCESSES.

...FUNCTIONS/EQUIPMENT/CAPABILITIES
CDC 3100 COMPUTER AND PERIPHERAL EQUIPMENT.
CDC 240 USER TERMINAL.
METEOROLOGICAL/OCEANOGRAPHIC DATA DISPLAY SYSTEM.
IN-HOUSE DOCUMENTATION FACILITIES (MST, PLATE MAKER, OFFSET PRESS, ETC).
22,000 VOLUME TECHNICAL LIBRARY OF ENVIRONMENTAL PUBLICATIONS.
IN-HOUSE GRAPHIC ARTS AND DRAFTING FACILITIES.
CALCOMP 565 PLOTTER.

INSTALLATION NATIONAL PARACHUTE TEST RANGE

EL CENTRO CA

C.O. CAPT R.S. CHEN, JR

TECH. DIR. DR. H.C. FISH

PROGRAM	PROGRAM DATA BY FISCAL YEAR (MILLION \$)	
	1974 (ACTUAL)	1975 (ACT + EST)
TOTAL RDT&E	2.244	7.180
TOTAL PROCUREMENT	1.840	0.620
TOTAL C&M	3.099	0.644
TOTAL OTHER	3.501	3.720
TOTAL ANNUAL LAB	10.684	12.164
TOTAL INHOUSE	9.626	11.343
TOTAL INHOUSE RDT&E	2.198	7.054
ANNUAL OPERATING COST	4.049	6.386

PERSONNEL	PERSONNEL DATA (END OF FY 1974)				NON-PROF
	AUTHORIZED STRENGTH	TOTAL PHDS	TOTAL PROF		
MILITARY	279	4	18		261
CIVILIAN	334	0	29		305
TOTAL	613	4	47		566

ACRES	SPACE AND PROPERTY				COST (MILLION \$)	
	LAB	ADMIN	OTHER	TOTAL	REAL PROP	EQUIP
232137	6.400	56.670	1142.407	1205.477	33.633	4.750

...MISSION

NTPR-TO PROVIDE RANGE SUPPORT FOR THE DOD, DESIGNATED GOVT AGENCIES, AND OTHER APPROVED USERS. NAVAERDRECOVFAC-RDTE OF PARACHUTES, ESCAPE METHODS, RESCUE, SURVIVAL, PERS SAFETY EQUIP AND SPECIAL AERIAL DELIV METHODS. NAF-TO MAINTAIN AND OPERATE FACILITIES IN SUPPORT OF NTPR.

...CURRENT IMPORTANT PROGRAMS

LEAD LAB ON SEH-3A ESCAPE SYSTEM DT&E FOR AV8A HARRIER AIRCRAFT
DEVELOP CONCEPT OF HFLU ESCAPE SYSTEM FOR COBRA AND OTHER COMBAT HELOS
CONTINUING QUICK RESPONSE FLEET SUPPORT ENGINEERING
PRECISION OFFSET DELIVERY-STEERABLE PARACHUTES
HUMAN HEAD AND NECK TOLERANCES TO G FORCES

...FUNCTIONS/EQUIPMENT/CAPABILITIES

DROP TEST RANGE-LAND AND SALT WATER-INSTRUMENTED-SPACE POSITIONING-LONG RANGE PHOTOGRAPHIC CAPABILITY-CLOSED CIRCUIT TELEVISION COVERAGE-TELEMETRY-DATA PROCESSING-KAWIN-WHIRL TEST TOWER-DROP TEST TOWER-RANGE PARAMETERS SEA LEVEL TO 80000 FT-SPEED 0 TO MACH 3. ENGINEERING SERVICES-EXPLORATORY DEVELOPMENT, ADVANCED AND BASIC DESIGN, IN-SERVICE AND TEST ENGINEERING, MATERIALS TESTING LABORATORY WITH TEXTILE AND OTHER MATLS TESTING EQUIP AND EXPERTISE, ENVIRONMENTAL ACCELERATION EQUIP-TENSILE TEST TO 120000 LBS. PHYSIOLOGICAL EVALUATION EQUIPMENT, PHOTO LAB WITH STILL AND MOTION PICTURE CAPABILITY-16MM-70MM COLOR UP TO 5000 FPS. A/C SUPPORT-LOW TO HIGH SPEED VEHICLE DELIVERY, AIR-TO-AIR PHOTO COVERAGE, EJEC SEAT TEST BED, PERS AND SIMUL WPN DELIVERY, INDUSTRIAL SHOPS, PROTOTYPE PARACHUTE AND HARDWARE FABRICATION, MACH SHOP, MODEL MAKING.

INSTALLATION NAVAL AEROSPACE MEDICAL RESEARCH LABORATORY PENSACOLA, FL.

C.O. CAPT N.W. ALLEBACH

TECH. ADV. DR. A. GRAYPIEL

PROGRAM	PROGRAM DATA BY FISCAL YEAR (MILLION \$)	
	1974 (ACTUAL)	1975 (ACT + EST)
TOTAL RT&E	4.152	3.835
TOTAL PROCUREMENT	0.000	0.000
TOTAL O&M	0.000	0.000
TOTAL OTHER	0.505	0.853
TOTAL ANNUAL LAE	4.657	4.688
TOTAL INHOUSE	4.657	4.688
TOTAL INHOUSE RT&E	4.152	3.835
ANNUAL OPERATING COST	0.776	0.808

PERSONNEL	PERSONNEL DATA (END OF FY 1974)			
	AUTHORIZED STRENGTH	TOTAL PHDS	TOTAL PROF	NUM- PROF
MILITARY	32	13	21	11
CIVILIAN	117	15	48	69
TOTAL	149	28	69	80

ACRES	SPACE AND PROPERTY SPACE (THOUSANDS OF SQUARE FEET)			COST (MILLION \$)		
	LAB	ADMIN	OTHER	TOTAL	REAL PROP	EQUIP
0	131.787	29.104	8.893	169.784	2.807	2.713

...MISSION

CONDUCT RESEARCH DEVELOPMENT TEST AND EVALUATION IN AEROSPACE MEDICINE AND RELATED SCIENTIFIC AREAS APPLICABLE TO AEROSPACE SYSTEMS

...CURRENT IMPORTANT PROGRAMS

PHYSIOLOGICAL EFFECTS OF NONIONIZING RADIATION
HUMAN DYNAMIC RESPONSE TO IMPACT ACCELERATION
PREVENTION OF DISORIENTATION AND VESTIBULAR DISTURBANCES IN FLIGHT
AVIATION PERSONNEL PROCUREMENT AND SELECTION
VISUAL TARGET ACQUISITION

...FUNCTIONS/EQUIPMENT/CAPABILITIES

NONIONIZING RADIATION FACILITY WITH MICROWAVE AND EXTREMELY LOW FREQUENCY. IMPACT ACCELERATION FACILITY WITH 225000 LB THRUST HORIZONTAL ACCELERATOR AND 2 SLEDS MAX 200G AND 35G. 40000 LB THRUST VERTICAL ACCELERATOR WITH 300 FPS X-RAY CINEMATOGRAPHY DEVICE. VIBRATION SHAKER 28000 LB THRUST. EQUIPPED FOR HUMAN AND ANIMAL EXPERIMENTS IN UNUSUAL FORCE ACQUISITION. ELECTROMAGNETIC AND ATMOSPHERIC ENVIRONMENTS. VIVARIUM WITH OPERATING SUITE. DEVELOP TESTS FOR PSYCHOLOGICAL ABILITIES AND TOLERANCE TO STRESS. SLOW ROTATION ROOM&CURIOUS ACCELERATION PLATFORM&HUMAN DISORIENTATION DEVICE&STILLE-WERNER CHAIR&OFF VERTICAL ROTATION CHAIR&SUPER CONDUCTING MAGNET&ANACHOIC CHAMBER&REVERBERANT CHAMBER&LOW PRESSURE CHAMBER&PERIODIC ANGULAR ROTATOR&ELECTRIC POSTURE TABLE&ECHOGRAPH&X-RAY&VECTORCARDIOGRAPH&BALLISTOCARDIOGRAPH&ELECTRON MICROSCOPE.

INSTALLATION NAVAL AIR DEVELOPMENT CENTER

JOHNSVILLE, PA.

C.O. CAPT G. YOWELL

TECH. DIR. MR. R.I. MASON

PROGRAM	PROGRAM DATA BY FISCAL YEAR (MILLION \$)	
	1974 (ACTUAL)	1975 (ACT + EST)
TOTAL RDT&E	80.141	90.853
TOTAL PROCUREMENT	38.185	39.367
TOTAL O&M	10.420	10.352
TOTAL OTHER	12.608	8.665
TOTAL ANNUAL LAB	141.354	149.237
TOTAL INHOUSE	77.088	60.711
TOTAL INHOUSE RDT&E	42.497	35.354
ANNUAL OPERATING COST	22.679	27.048

PERSONNEL	PERSONNEL DATA (END OF FY 1974)				NON- PROF
	AUTHORIZED STRENGTH	TOTAL PHDS	TOTAL PROF		
MILITARY	339	5	80		259
CIVILIAN	2489	32	1128		1361
TOTAL	2828	37	1208		1620

ACRES	SPACE AND PROPERTY			COST (MILLION \$)		
	SPACE (THOUSANDS OF SQUARE FEET)			TOTAL	REAL PROP	EQUIP
	LAB	ADMIN	OTHER			
749	847.764	42.747	435.964	1326.475	24.726	39.270

...MISSION
TO BE THE PRINCIPAL NAVY RDT&E CENTER FOR NAVAL AIRCRAFT SYSTEMS

...CURRENT IMPORTANT PROGRAMS
TACTICAL SUPPORT CENTER
LIGHT AIRBORNE MULTI-PURPOSE SYSTEMS (LAMPS)
ADVANCED ACOUSTIC SENSORS
P-3C AIRCRAFT WEAPON SYSTEM
AIRCREW LIFE SUPPORT SYSTEMS, PROTECTIVE CLOTHING AND DEVICES

...FUNCTIONS/EQUIPMENT/CAPABILITIES
RSCH, DESIGN, DEVELOP, TEST, LAB AND FLIGHT EVAL, LONG-RANGE AIR WARFARE STUDIES. THEORETICAL ANAL, ENGIN ANAL AND FEAS PROTOTYPE DEVELOP OF SYS IN ABN ASW, ATTACK CARRIER WARFARE AND OCEAN SURVEILLANCE ENGIN ANAL ON AERO SYSTEM COMP AND AREAS OF TECHNOLOGY IN ABN ASW SYSTEMS COMMUNICATIONS, NAVIG, DIGITAL COMPUTATION, COUNTERMEAS, AEW, FC, AEROSPACE MED, BIOPHYSICAL EFFECTS OF ACCELERATION, HUMAN FACTORS, AIRCREW PERSONAL AND SAFETY EQUIP, MATERIALS, AND PROCESSES USED IN A/C AIRFRAME STRUCTURES AND SUPPORT TO OTHER ACTIVITIES AS DIRECTED.

INSTALLATION NAVAL AIR ENGINEERING CENTER

PHILADELPHIA, PA.

C.O. CAPT T.F. LECHNER

TECH. DIR. CAPT J.H. HOGANSON

PROGRAM	PROGRAM DATA BY FISCAL YEAR (MILLION \$)	
	1974 (ACTUAL)	1975 (ACT + EST)
TOTAL RDT&E	8.090	21.394
TOTAL PROCUREMENT	39.296	44.996
TOTAL O&M	26.590	23.000
TOTAL OTHER	9.054	17.125
TOTAL ANNUAL LAB	83.030	106.515
TOTAL INHOUSE	29.622	47.639
TOTAL INHOUSE RDT&E	6.271	19.244
ANNUAL OPERATING COST	7.974	9.347

PERSONNEL	PERSONNEL DATA (END OF FY 1974)			
	AUTHORIZED STRENGTH	TOTAL PHDS	TOTAL PROF	NON- PROF
MILITARY	20	0	16	4
CIVILIAN	1699	4	288	1411
TOTAL	1719	4	304	1415

ACRES	SPACE AND PROPERTY			COST (MILLION \$)		
	SPACE (THOUSANDS OF SQUARE FEET)	LAB	ADMIN	OTHER	TOTAL	REAL PROP
560	872.778	94.161	1270.517	2237.456	33.685	20.464

...MISSION

CONDUCT PRGS OF ENGR, DEV, DEV SUPRT, SYS INTGRN, LMTD PROD, PROCRMT, & FLT ENGR SUPRT FOR: 1) A/C LAUNCH, RECVRY, & VIS LNDNG AID SYSE 2) NAVA INTEL PRCSNG SYSE 3) GRND SUPRT EQPMNT USD WITH A/C & ABV SYS & AIRBORNE WPNS SYSE 4) INSTMT & ANCLLRY EQPMNT ROD TO SUPRT ALL OTHER PROGRAMS.

...CURRENT IMPORTANT PROGRAMS

HIGH CAPACITY, LIGHT WEIGHT, AIRCRAFT ARRESTING GEAR DEVELOPMENT.
STORED ENERGY, ROTARY DRIVE, AIRCRAFT LAUNCHING SYSTEMS
REMOTELY PILOTED VEHICLE LAUNCHING AND RECOVERY SYSTEMS
COANOA-TURBO JET ENGINE RUN-UP NOISE SUPPRESSION
AVIONIC TESTING USING LARGE SCALE INTERGRATED CIRCUITS (LSI)

...FUNCTIONS/EQUIPMENT/CAPABILITIES

TEST FACILITIES FOR: FULL SCALE SIMULATION OF RUNWAY LOADING OF AIRCRAFT LANDING MATS& EVALUATION OF 1 TO 1 1/2 INCH DIAMETER WIRE ROPE AND ATTACHMENTS& AND DEVELOPMENT AND SERVICE LIFE SIMULATION OF HYDRAULIC, PNEUMATIC AND ELECTRICAL COMPONENTS/SUB-SYSTEMS. MOCK-UPS OF AIR LAUNCHED WEAPONS HANDLING AND STOWAGE FACILITIES ON CARRIERS. AIRCRAFT CARRIER OPERATIONAL ANALYSIS ROOM FOR STUDYNG SPOTTING AND SERVICING CAPABILITIES ON FLIGHT AND HANGAR DECKS. MACHINE SHOP WITH CONVENTIONAL AND AUTOMATED MACHINE TOOLS CAPABLE OF PROTOTYPE AND LIMITED PRODUCTION. IBM 360/50 COMPUTER FOR ENGINEERING ANALYSES. TEST AND EVALUATION SITE FOR NAVAL INTELLIGENCE PROCESSING SYSTEMS. VACUUM FURNACE FOR HEAT TREATING. ELECTRON BEAM WELDER. CRYOGENICS FACILITY. OIL ANALYSIS LAB. NOISE MEASUREMENT LAB. ULTRASONIC CLEANING LAB.

INSTALLATION NAVAL AIR PROPULSION TEST CENTER

TRENTON, N.J.

C.O. CAPT W.C. BENTLEY

PROGRAM	PROGRAM DATA BY FISCAL YEAR (MILLION \$)	
	1974 (ACTUAL)	1975 (ACT + EST)
TOTAL RDT&E	11.121	17.457
TOTAL PROCUREMENT	4.766	3.153
TOTAL U&M	0.166	0.067
TOTAL OTHER	3.320	1.377
TOTAL ANNUAL LAB	19.373	22.054
TOTAL INHOUSE	13.090	12.889
TOTAL INHOUSE RDT&E	6.488	10.125
ANNUAL OPERATING COST	3.526	4.067

PERSONNEL	PERSONNEL DATA (END OF FY 1974)				NON- PROF
	AUTHORIZED STRENGTH	TOTAL PHDS	TOTAL PROF		
MILITARY	9	0	9	0	
CIVILIAN	678	1	159	519	
TOTAL	687	1	168	519	

ACRES	SPACE AND PROPERTY (THOUSANDS OF SQUARE FEET)			COST (MILLION \$)		
	LAB	ADMIN	OTHER	TOTAL	REAL PROP	EQUIP
66	323.476	15.720	230.578	569.774	49.695	11.951

...MISSION

TO TEST & EVALUATE AIRCRAFT PROPULSION SYSTEMS - THEIR COMPONENTS AND ACCESSORIES AND FUELS AND LUBRICANTS, AND TO PERFORM APPLIED RESEARCH AND DEVELOPMENT LEADING TO CORRECTION OF DESIGN DEFICIENCIES AND SERVICE PROBLEMS.

...CURRENT IMPORTANT PROGRAMS

SWEDISH ENGINE PROGRAM-SEA LEVEL ENVIRONMENTAL & ALTITUDE PERFORMANCE
HI HELD TRANSMISSION QUALIFICATION-200 HR ENDURANCE QUALIFICATION TEST
54460-1 PROPELLER PFRT 50 HR ENDURANCE TEST
LTC48 ANTI-ICING & ALTITUDE TESTS
TF 30 P-412 ENGINE-INVEST SERVICE PROBLEMS AND EVAL CIP HARDWARE

...FUNCTIONS/EQUIPMENT/CAPABILITIES

TEST CELLS FOR SIMULATING ALTITUDE AND ENVIRONMENTAL CONDITIONS OF FLIGHT - SIMULATION CAPABILITY FROM SEA LEVEL TO 100000 FEET ALTITUDE FROM MINUS 65 DEGREES TO PLUS 650 DEGREES F AND FLIGHT SPEEDS TO MACH 3 THREE LARGE ALTITUDE CELLS, TWO LARGE SEA LEVEL CELLS AND FOUR SMALL ALTITUDE CELLS CAN BE USED TO TEST ANY ENGINE ON THE NAVY DRAWING BOARD OR IN FLEET SERVICE. IN ADDITION TO TURBOJET/FANTURBOSHAFT/PROP ENGINES NAPTC TESTS RECIPROCATING ENGINES, PROPELLERS, HELICOPTER TRANSMISSIONS, STARTERS AND AUXILIARY POWER UNITS, FUEL CONTROLS AND FLUID SYSTEM COMPONENTS. THE CENTER DOES EXTENSIVE FUEL AND OIL TESTING ON TEST RIGS AND IN LARGE CHEMISTRY LAB. CENTER ENGINEERS FORMULATE AND MANAGE THE NAVY EXPLORATORY AND ADVANCED DEVELOPMENT PROGRAMS FOR NAVAIR. NAPTC MANAGES OTHER DESIGNATED PROJECTS FOR NAVAIR.

INSTALLATION NAVAL AIR TEST CENTER

PATUXENT RIVER, MD.

C.O. RADM F. TAYLOR BROWN

TECH. DIR. MR. JOHN B. PARADIS

PROGRAM	PROGRAM DATA BY FISCAL YEAR (MILLION \$)	
	1974 (ACTUAL)	1975 (ACT + EST)
TOTAL RDT&E	37.100	54.707
TOTAL PROCUREMENT	28.764	13.994
TOTAL O&M	8.368	3.574
TOTAL OTHER	22.300	17.073
TOTAL ANNUAL LAB	96.532	89.348
TOTAL INHOUSE	81.424	70.162
TOTAL INHOUSE RDT&E	30.805	42.784
ANNUAL OPERATING COST	34.493	37.129

PERSONNEL	PERSONNEL DATA (END OF FY 1974)				NON-PROF
	AUTHORIZED STRENGTH	TOTAL PHDS	TOTAL PROF		
MILITARY	1541	0	219		1322
CIVILIAN	2516	5	478		2038
TOTAL	4057	5	697		3360

ACRES	SPACE AND PROPERTY			COST (MILLION \$)		
	LAB	ADMIN	OTHER	TOTAL	REAL PROP	EQUIP
6636	21.967	314.311	4327.039	4663.317	128.306	25.191

...MISSION

COORDINATE & PERFORM TEST & EVALUAT OF AIRCRAFT WEAPONS SYS, THEIR COMPONENTS & RELATED EQUIPMENT, CONDUCT TEST PILOT TRAINING, PROVIDE TECHNICAL ADVICE & ASSISTANCE TO BIS NASC CONTRACTORS, ETC.

...CURRENT IMPORTANT PROGRAMS

EVALUATION NEW AIRCRAFT F14 S3A AH1J E2C LAMPS A7 A4M A6E F4//
CHECKOUT ALL AIRCRAFT IN AIMS AIRSPEED/ALTIMETER SYSTEMS//CHECKOUT
ALL ACLS//DEVEL & EVAL OF ASW SYS TACTICAL SUPPORT CENTER P3C//
EVAL GROUND SUPPORT EQUIP VAST HUMAN FACTORS GRAN HEADS UP DISPLAYS
SYSTEMS//ELECTRONIC WARFARE SYS TRAM EA6//

...FUNCTIONS/EQUIPMENT/CAPABILITIES

DEVEL & TEST CONCEPTS FOR OPERATING AIRPLANES FROM CARRIERS//EVAL
AIRCRAFT MAINTENANCE & RELIABILITY//PERFORM ACCELERATED SERVICE TESTS
PERFORM ELECTROMAGNETIC COMPATIBILITY TESTS//DEVEL & EVAL AIRCRAFT
ELEC SYS//RESEARCH & DEVEL AIRCRAFT INSTRUMENTATION & DATA GATHERING
DEVICES & SYSTEMS//ESTABLISH STORE RELEASE ENVELOPES//REC DESIGN
CHANGES TO AIRCRAFT//CONDUCT NAVY PRELIM EVALS//MAJOR FACILITIES//
CATAPULTS & ARRESTING GEARS//INTERFERENCE TEST HANGAR//AVIONICS LAB/
INSTRU THEODOLITE RADAR & ECM RANGE//EXTENSIVE ELEC & ENVIRONMENTAL
LABS//EXTENSIVE INSTRUMENTATION, REAL TIME TELEMETRY, & COMPUTER
CAPABILITY//ENGINE TEST CELLS//OVER 120 TEST AIRCRAFT//LONG RUNWAYS/
AIRCRAFT WEIGHING SCALES//HYDROFOIL SEAPLANES & SURFACE EFFECTS
SHIPS TEST FACILITIES.

INSTALLATION NAVAL AIR TEST FACILITY (SHIP INSTALLATIONS) LAKEHURST, N.J.

C.O. CAPT R.C. ROWLEY

TECH. COORD. MR. NICHOLAS IVANOVIC

PROGRAM	PROGRAM DATA BY FISCAL YEAR (MILLION \$)	
	1974 (ACTUAL)	1975 (ACT + EST)
TOTAL RD&E	1.492	3.140
TOTAL PROCUREMENT	0.200	4.290
TOTAL OEM	0.010	2.110
TOTAL OTHER	9.994	1.457
TOTAL ANNUAL LAB	11.696	10.997
TOTAL INHOUSE	10.998	7.710
TOTAL INHOUSE RD&E	1.359	1.027
ANNUAL OPERATING COST	3.954	4.638

PERSONNEL	PERSONNEL DATA (END OF FY 1974)				NON-PROF
	AUTHORIZED STRENGTH	TOTAL PHDS	TOTAL PROF		
MILITARY	151	0	6		145
CIVILIAN	382	0	75		307
TOTAL	533	0	81		452

ACRES	SPACE AND PROPERTY SPACE (THOUSANDS OF SQUARE FEET)			COST (MILLION \$)		
	LAB	ADMIN	OTHER	TOTAL	REAL PROP	EQUIP
2500	66.132	34.153	98.959	199.244	36.771	7.549

...MISSION

TO CONDUCT TESTS AND EVAL OF LAUNCHING, RECOVERY, AND VISUAL LANDING AIDS SYSTEMS AND RELATED EQUIPMENT& PROVIDE TEST SITES, FACILITIES, AND SUPPORT SERVICES FOR DEV TESTS OF SI EQUIPMENT& CONDUCT R AND D OF EQUIP AND INSTR USED IN TESTS AND EVAL OF SI EQUIPMENT.

...CURRENT IMPORTANT PROGRAMS

MK 14 ROTARY ARRESTING GEAR DEVELOPMENT
F14 BARRICADE EVALUATION
HIGH CYCLE TESTER DEVELOPMENT SUPPORT
HELICOPTER HAULDOWN SECURING TRAVERSING DEV AND EVAL
CVAN 68 CATAPULT CONFIGURATION TEST AND EVAL

...FUNCTIONS/EQUIPMENT/CAPABILITIES

CARRIER CONFIGS DUPLICATED AND SERV OPS SIMULATED WITH NAVAL ACFT
CAI DEV FAC SHIPBOARD USED TO DEV EVAL NEW ACFT CARRIER LAUNCH SYSTEMS
CAT DEV FAC SHOREBASED EXPEDITIONARY CAT FOR DEV OF MARINE CORPS SATS
CONCEPT AND REQUIRED ACFT LAUNCHING ACCESSORIES
ARRESTING GEAR DEV FAC SHIPBOARD CONFIGURED TO SIMULATE STANDARD
SHIPBOARD ARRESTING GEAR INSTAL MK 5 MOD 3 AND MK 7 MOD 1 2 AND 3
TEST TRACK FAC 5 TO DEV AND/OR EVAL SHOREBASED AND SHIPBRD ARRS SYS
HELD SUPPORT EQUIPMENT EVAL CTR WITH V/STOL FORWARD OPERATING FACILITY
AND UNIVERSAL LIGHTING PAD AND ELEVATED FIXED PLATFORM
DIGITAL AND ANALOG COMPUTATIONAL FAC PROVIDES FOR SCIENTIFIC PROBLEM
SOLUTION MIS AND SCIENTIFIC DATA REDUCTION OF ACQUIRED DATA
INSTR MAINT/CALIB FAC MOTION/STILL PHOTO CAP AND FILM DEV LAB

INSTALLATION NAVAL ARCTIC RESEARCH LABORATORY

BARROW, AK

C.O. LTCDR SCHUMACHER

TECH. DIR. DR WARREN W. DENNER

PROGRAM	PROGRAM DATA BY FISCAL YEAR (MILLION \$)	
	1974 (ACTUAL)	1975 (ACT + EST)
TOTAL RDT&E	5.731	5.968
TOTAL PROCUREMENT	0.000	0.000
TOTAL O&M	0.000	0.000
TOTAL OTHER	1.438	0.335
TOTAL ANNUAL LAB	7.169	6.303
TOTAL INHOUSE	0.037	0.039
TOTAL INHOUSE RDT&E	0.000	0.000
ANNUAL OPERATING COST	0.300	0.325

PERSONNEL	PERSONNEL DATA (END OF FY 1974)				NON-PROF
	AUTHORIZED STRENGTH	TOTAL PHDS	TOTAL PROF		
MILITARY	2	0	1		1
CIVILIAN	0	0	0		0
TOTAL	2	0	1		1

ACRES	SPACE AND PROPERTY SPACE (THOUSANDS OF SQUARE FEET)			COST (MILLION \$)		
	LAB	ADMIN	OTHER	TOTAL	REAL PROP	EQUIP
4973	40.800	5.800	209.400	256.000	30.587	19.413

...MISSION

CONTINUOUSLY OPERATE A U.S. RESEARCH LABORATORY IN THE ARCTIC AND FULFIL L NAVY AND OTHER GOVT RESEARCH, PRIMARILY OCEANOGRAPHY, METEOROLOGY, HYDRO ACOUSTICS, GEOPHYSICS, ATMOSHERIC PHYSICS AND BIOLOGY.

...CURRENT IMPORTANT PROGRAMS

DETERMINE EFFECT OF ARCTIC ICE OCEANOGRAPHIC PARAMETERS ON SURVEILLANCE
ICE GROWTH AND DECAY UNDER VARIOUS ATMOSPHERIC & OCEANOGRAPHIC CONDITION
DEVELOP PREDICTION CAPABILITIES FOR MAJOR ICE MOVEMENTS
DEVELOP LONG RANGE ACOUSTIC SURVEILLANCE CAPABILITIES IN THE ARCTIC
PROVIDE LOGISTICS SUPPORT FOR ON SITE INVESTIGATORS

...FUNCTIONS/EQUIPMENT/CAPABILITIES

PROVIDES FACILITIES MAINTENANCE, UTILITIES GENERATION, MOTOR VEHICLE OPERATION AND MAINT, FIRE PROTECTION, SECURITY, JANITORIAL SERVICES, COMMUNICATIONS, AIRPORT OPERATION, MEDICAL SUPPORT, FOOD SERVICE, LAUNDRY, RECREATION AND RESALE ACTIVITIES.

INSTALLATION NAVAL BIOMEDICAL RESEARCH LABORATORY

OAKLAND, CA.

CDR. J. F. PRIENOW

TECH.DIR. DR N.A. VEDROS

PROGRAM	PROGRAM DATA BY FISCAL YEAR (MILLION \$)	
	1974 (ACTUAL)	1975 (ACT + EST)
TOTAL RDT&E	2.136	2.191
TOTAL PROCUREMENT	0.000	0.000
TOTAL O&M	0.000	0.000
TOTAL OTHER	0.265	0.301
TOTAL ANNUAL LAB	2.401	2.492
TOTAL INHOUSE	0.706	0.690
TOTAL INHOUSE RDT&E	0.441	0.389
ANNUAL OPERATING COST	0.386	0.334

PERSONNEL	PERSONNEL DATA (END OF FY 1974)				NON-PROF
	AUTHORIZED STRENGTH	TOTAL PHDS	TOTAL PROF		
MILITARY	12	5	8		4
CIVILIAN	6	0	0		6
TOTAL	18	5	8		10

ACRES	SPACE AND PROPERTY				COST (MILLION \$)	
	SPACE (THOUSANDS OF SQUARE FEET)				TOTAL REAL PROP	EQUIP
	LAB	ADMIN	OTHER	TOTAL		
5	64.700	8.731	45.371	118.802	0.100	3.000

...MISSION
 PROVIDES EXPERTISE IN THE AEROBIOLOGICAL ASPECTS OF MEDICAL MICROBIOLOGY
 AIMED AT THE PREVENTION AND CONTROL OF DISEASES OF NAVAL PERSONNEL.

...CURRENT IMPORTANT PROGRAMS
 BIOLOGY OF RESPIRATORY DISEASE ORGANISMS
 CONTROL OF ENVIRONMENTAL FACTORS EFFECTING NAVAL PERSONNEL AND MATERIEL
 AEROBIOLOGY OF BIOHAZARDOUS VIRUSES
 INSECTICIDE TOXICITY AND BACTERIAL DIAGNOSTIC PROCEDURES
 PLAGUE VACCINE

...FUNCTIONS/EQUIPMENT/CAPABILITIES
 EQUIPMENT INCLUDES MINIATURE DEEP FREEZE AND MINIATURE FIELD INCUBATORS
 FOR VIRUS ISOLATION, ROTATION DRUM USED TO INVESTIGATE EFFECT OF LIGHT
 ON AEROSOLIZED MICROORGANISMS AND PHOTOCHEMICAL REACTION, A HYPERBARIC
 TEST FACILITY, MICROAEROFLUOROMETER USED TO TRACK AEROSOL CLOUDS. THE
 RESEARCH EQUIPMENT IS CONTINUOUSLY BEING MODIFIED AND EXPANDED IN ORDER
 TO MAINTAIN A BAL THAT IS RESPONSIVE TO THE TOTAL BIOLOGICAL NEEDS OF
 THE NAVY.

INSTALLATION NAVAL BLOOD RESEARCH LABORATORY

CHELSEA, MS.

C.O. CDR CESARE R. VALERI

PROGRAM	PROGRAM DATA BY FISCAL YEAR (MILLION \$)	
	1974 (ACTUAL)	1975 (ACT + EST)
TOTAL RDT&E	0.499	0.680
TOTAL PROCUREMENT	0.000	0.000
TOTAL O&M	0.000	0.000
TOTAL OTHER	0.217	0.230
TOTAL ANNUAL LAB	0.716	0.910
TOTAL INHOUSE	0.716	0.910
TOTAL INHOUSE RDT&E	0.499	0.680
ANNUAL OPERATING COST	0.142	0.220

PERSONNEL	PERSONNEL DATA (END OF FY 1974)			TOTAL PROF	NON- PROF
	AUTHORIZED STRENGTH	TOTAL PHDS	TOTAL PROF		
MILITARY	15	4	6	9	
CIVILIAN	17	0	4	13	
TOTAL	32	4	10	22	

ACRES	SPACE AND PROPERTY SPACE (THOUSANDS OF SQUARE FEET)			COST (MILLION \$)		
	LAB	ADMIN	OTHER	TOTAL	REAL PROP	EQUIP
0	6.500	0.200	1.500	8.200	0.000	0.655

...MISSION

CONDUCT RESEARCH AND DEVELOP METHODS FOR LONG TERM PRESERVATION OF BLOOD AND BLOOD PRODUCTS AND EVALUATION OF USEFULNESS IN OPERATIONAL AREAS ON LAND AND AT SEA AND IN HOSPITALS

...CURRENT IMPORTANT PROGRAMS

EVALUATE IMPROVED METHODS FOR COMPONENT THERAPY
EVALUATE METHODS FOR REJUVANATION UNDATED AND OUTDATED RED CELLS
EVALUATE METHODS FOR PRESERVING PLATELETS AND WHITE CELLS
CLINICAL EVALUATION OF FROZEN RED CELLS AND PLATELETS
EVALUATE IMPROVED METHODS FOR PRESERVING RED CELLS

...FUNCTIONS/EQUIPMENT/CAPABILITIES

STORAGE CAPABILITY FOR 5000UNITS OF FROZEN BLOOD
LIQUID AND FREEZE PRESERVATION EQUIPMENT FOR RED CELLS, WHITE CELLS, PLATELETS AND PLASMA PROTEIN
EQUIPMENT TO BIOLOGICALLY EVALUATE THE VIABILITY AND FUNCTION OF RED CELLS
EQUIPMENT TO BIOLOGICALLY EVALUATE THE VIABILITY AND FUNCTION OF WHITE CELLS
EQUIPMENT TO BIOLOGICALLY EVALUATE THE VIABILITY AND FUNCTION OF PLATELETS

INSTALLATION NAVAL CLOTHING AND TEXTILE RESEARCH UNIT NATICK, MS.

CDR J.P. MITTS

PROGRAM	PROGRAM DATA BY FISCAL YEAR (MILLION \$)	
	1974 (ACTUAL)	1975 (ACT + EST)
TOTAL RD&E	0.755	0.737
TOTAL PROCUREMENT	0.192	0.040
TOTAL O&M	0.607	0.760
TOTAL OTHER	0.015	0.024
TOTAL ANNUAL LAB	1.569	1.561
TOTAL INHOUSE	1.569	1.561
TOTAL INHOUSE RD&E	0.755	0.737
ANNUAL OPERATING COST	0.212	0.191

PERSONNEL	PERSONNEL DATA (END OF FY 1974)				NON-PROF
	AUTHORIZED STRENGTH	TOTAL PHDS	TOTAL PROF		
MILITARY	1	0	0		1
CIVILIAN	60	0	22		38
TOTAL	61	0	22		39

ACRES	SPACE AND PROPERTY				COST (MILLION \$)	
	LAB	ADMIN	OTHER	TOTAL	REAL PROP	EQUIP
2	10.000	7.000	3.000	20.000	0.275	0.647

...MISSION

CONDUCT RESEARCH, DEVELOPMENT, TEST, AND EVALUATION AND GIVE ENGINEERING SUPPORT IN CLOTHING, TEXTILES, AND RELATED FIELDS ASSOCIATED WITH SERVICE CLOTHING AND ENVIRONMENTAL AND SPECIAL PROTECTIVE CLOTHING

...CURRENT IMPORTANT PROGRAMS

ASBESTOS HANDLERS COVERALLS
DAMAGE-CONTROL-SUIT SYSTEM
STATIC ELECTRICAL PROPENSITY OF NAVY CLOTHING
DECOMPRESSION-CHAMBER CLOTHING AND TEXTILES
CRASH-CREW FIRE-PROTECTIVE CLOTHING

...FUNCTIONS/EQUIPMENT/CAPABILITIES

MAJOR FUNCTIONS--

CONDUCT RD&E IN TEXTILE MATERIALS, LEATHER, PLASTICS, AND RUBBER
DEVELOP NAVY CLOTHING, ACCESSORIES, AND RELATED ITEMS
CONDUCT STUDIES IN ENVIRONMENTAL SCIENCES AND LIFE SUPPORT SYSTEMS
PREPARE SPECIFICATIONS FOR CLOTHING, TEXTILES, FOOTWEAR AND RELATED ITEMS
COORDINATE STANDARDIZATION IN CLOTHING
PROVIDE TECHNICAL SUPPORT TO ALL DOD AGENCIES IN NAVY CLOTHING AREAS

MAJOR EQUIPMENT AND FACILITIES--

TEXTILE LABORATORIES
COLD TEST CHAMBERS
HYDRO ENVIRONMENT SIMULATOR
HIGH INTENSITY THERMAL TEST UNIT

INSTALLATION NAVAL COASTAL SYSTEMS LABORATORY

PANAMA CITY FL

C.O. CAPT R.T. QUINN

TECH. DIR. MR. GERALD G. GOULD

PROGRAM	PROGRAM DATA BY FISCAL YEAR (MILLION \$)	
	1974 (ACTUAL)	1975 (ACT + EST)
TOTAL RDT&E	12.099	18.105
TOTAL PROCUREMENT	0.816	0.568
TOTAL O&M	2.875	4.168
TOTAL OTHER	4.521	4.158
TOTAL ANNUAL LAB	20.311	26.999
TOTAL INHOUSE	16.196	17.883
TOTAL INHOUSE RDT&E	9.312	10.558
ANNUAL OPERATING COST	5.789	6.606

PERSONNEL	PERSONNEL DATA (END OF FY 1974)			
	AUTHORIZED STRENGTH	TOTAL PHDS	TOTAL PROF	NON- PROF
MILITARY	102	3	13	89
CIVILIAN	616	17	267	351
TOTAL	720	20	280	440

ACRES	SPACE AND PROPERTY			COST (MILLION \$)		
	SPACE (THOUSANDS OF SQUARE FEET)			TOTAL	REAL PROP	EQUIP
674	LAB	ADMIN	OTHER	555.560	23.449	13.173
	202.626	35.296	317.638			

...MISSION
TO BE THE PRINCIPAL NAVY RDT&E CENTER FOR THE APPLICATION OF SCIENCE AND TECHNOLOGY ASSOCIATED WITH MILITARY OPS CARRIED OUT PRIMARILY IN THE COASTAL REGION, AND TO PERFORM INVESTIGATIONS IN RELATED FIELDS OF SCIENCE AND TECHNOLOGY.

...CURRENT IMPORTANT PROGRAMS
COASTAL TECHNOLOGY SUPPORTING MARINE CORPS. SUPER CONDUCTING MAGNETOMETER. AMPHIBIOUS MINE COUNTERMEASURES AND INSHORE WARFARE OPERATIONS. INTEGRATED SWIM-DIVER AND SALVAGE SYSTEMS. ACOUSTIC WARFARE SYSTEMS FOR SURFACE SHIPS AND SUBMARINES.

...FUNCTIONS/EQUIPMENT/CAPABILITIES
TWO GULF OFFSHORE RESEARCH PLATFORMS WITH LIVING LABS FOR 30 AND 4 PEOPLE. MANRATED OCEAN SIMULATION FACILITY ALMOST COMPLETED. SIMULATION AND COMPUTER CENTER WITH 7-INTERDATA170, PDP11, XDS9300, ADI256, UNIVAC1218 AND BURROUGHS5500 COMPUTERS AND ASSOCIATED EQUIPMENT. SEAFLOOR PLATFORM, MAGNETIC VILLAGE. HELIPORT COMPLEX3-RH53D+1-NHIFHELOS. MODEL TOWING BASIN. UNDERWATER ACOUSTIC TRANSDUCER FACILITY. ACOUSTIC RESEARCH TANK. ACOUSTIC SUMULATOR. AUTOMATIC ELECTRONIC RANGING INSTRUMENTATION SYSTEM SHORE OPTICAL TRACKING SYSTEM. ENVIRONMENTAL SIMULATION LAB. RECOMPRESS-ION CHAMBERS. CALIBRATION + STANDARDS FAC., INDUSTRIAL SHOPS, PIER SPACE AND BOATS. BIOENGINEERING + PHYSIOLOGY LAB. HYDROSPACE LAB. SWIMMER/DIVER R+D FAC. HELMHOLTZ COIL FAC. MAGNETIC TARGET DETECTION + CLASSIFI-CATION RANGE. LOW FREQ FAC. COUNTERMEASURE EVAL.FAC. SOLENOID COIL FAC.

INSTALLATION NAVAL DENTAL RESEARCH INSTITUTE, NTC

GREAT LAKES, IL

C.O. CAPT H J KEENE

PROGRAM	PROGRAM DATA BY FISCAL YEAR (MILLION \$)	
	1974 (ACTUAL)	1975 (ACT + EST)
TOTAL RDT&E	0.394	0.490
TOTAL PROCUREMENT	0.000	0.000
TOTAL O&M	0.000	0.000
TOTAL OTHER	0.331	0.330
TOTAL ANNUAL LAB	0.725	0.820
TOTAL INHOUSE	0.725	0.820
TOTAL INHOUSE RDT&E	0.394	0.490
ANNUAL OPERATING COST	0.120	0.250

PERSONNEL	PERSONNEL DATA (END OF FY 1974)			
	AUTHORIZED STRENGTH	TOTAL PHDS	TOTAL PROF	NON- PROF
MILITARY	22	2	4	18
CIVILIAN	17	4	6	11
TOTAL	39	6	10	29

ACRES	SPACE AND PROPERTY SPACE (THOUSANDS OF SQUARE FEET)			TOTAL	COST (MILLION \$)	
	LAB	ADMIN	OTHER		REAL PROP	EQUIP
1	11.780	10.74	9.487	31.441	0.000	0.666

...MISSION
CONDUCT RESEARCH IN DENTAL PROBLEMS OF ORAL HEALTH IN NAVAL AND MARINE
CORPS PERSONNEL AND DELIVERY OF DENTAL CARE

...CURRENT IMPORTANT PROGRAMS
ORAL HEALTH OF NAVAL PERSONNEL
MICROORGANISMS IN INDUCED PERIODONTAL DISEASE
BIOCHEMISTRY OF INFECTION FREE AND PATHOLOGICAL ORAL ENVIRONMENTS
BACTERIOLOGY OF THE ORAL ENVIRONMENT IN CARIES FREE NAVAL RECRUITS
IMMUNOLOGICAL ANALYSIS OF TOOTH TRANSPLANTS IN MICE, PRIMATES, AND MAN

...FUNCTIONS/EQUIPMENT/CAPABILITIES
ASSESS DENTAL HEALTH STATUS OF RECRUITS IMPROVE DISEASE PREVENTION AND
CARE PROCEDURES INCREASE QUALITY AND QUANTITY OF DENTAL CARE
AMINO ACID ANALYZER ATOMIC ABSORPTION UNIT FLUORIDE ELECTRODES
SCINTILLATION COUNTER 8K MEMORY CORE COMPUTER
GAS CHROMATOGRAPH UNIT

INSTALLATION NAVAL ELECTRONICS LABORATORY CENTER

SAN DIEGO, CA.

C.O. CAPT N.D. HARDING JR.

TECH. DIR. DR. C.E. BERGMAN

PROGRAM	PROGRAM DATA BY FISCAL YEAR (MILLION \$)	
	1974 (ACTUAL)	1975 (ACT + EST)
TOTAL RDT&E	41.658	47.033
TOTAL PROCUREMENT	3.255	3.137
TOTAL O&M	12.794	13.437
TOTAL OTHER	9.282	9.057
TOTAL ANNUAL LAB	66.989	72.664
TOTAL INHOUSE	44.312	48.022
TOTAL INHOUSE RDT&E	26.800	30.261
ANNUAL OPERATING COST	15.303	17.076

PERSONNEL	PERSONNEL DATA (END OF FY 1974)				NON- PROF
	AUTHORIZED STRENGTH	TOTAL PHDS	TOTAL PROF		
MILITARY	90	2	38		52
CIVILIAN	1492	68	845		647
TOTAL	1582	70	883		699

ACRES	SPACE AND PROPERTY			COST (MILLION \$)		
	SPACE (THOUSANDS OF SQUARE FEET)			TOTAL	REAL PROP	EQUIP
	LAB	ADMIN	OTHER			
1586	411.773	116.613	91.208	619.594	12.283	41.110

...MISSION

MISSION AND FUNTIONS ARE TO ESTABLISH AND MAINTAIN THE PRIMARY IN-HOUSE RDT&E CAPABILITY FOR NAVY AND MARINE CORPS ELECTRONICS SYSTEMS AND TECHNOLOGIES FOR COMMAND CONTROL AND COMMUNICATIONS, ELECTRONIC WARFARE, ELECTROMAGNETIC SURVEILLANCE, IDENTIFICATION, AND NAVIGATION.

...CURRENT IMPORTANT PROGRAMS

FLEET SATELLITE COMMUNICATION AND DIGITAL INFORMATION EXCHANGE SYSTEMS
 NAVAL MODULAR AUTOMATED COMM SYSTEM
 COMM SYSTEMS IMPROVEMENT FOR FBM AND ATTACK SUBS
 OPERATIONAL APPLICATION OF ELECTRO-OPTICS AND FIBER-OPTICS
 TELECOMMUNICATION SYSTEMS ENGINEERING

...FUNCTIONS/EQUIPMENT/CAPABILITIES

FACILITIES INCLUDE -MICROELECTRONICS LAB, ELECTRO-OPTICS R&D LAB, HUMAN FACTORS LAB, MICROWAVE SPACE RESEARCH FACILITY, ADVANCED COMPUTER SCIENCE CENTER, ANTENNA MODEL RANGES, ENVIRONMENTAL TEST FACILITY, MATERIALS SCIENCE LAB, SECURE TEST LAB, SYSTEMS DEVELOPMENT AND EVALUATION FACILITIES, AND FLEET OPERATIONAL READINESS ACCURACY CHECK SITES.

INSTALLATION NAVAL EXPLOSIVE ORDNANCE DISPOSAL FACILITY INDIAN HEAD MD

C.O. CDR DEWITT H. MOODY

TECH. DIR. MR. LIONEL A. DICKINSON

PROGRAM	PROGRAM DATA BY FISCAL YEAR (MILLION \$)	
	1974 (ACTUAL)	1975 (ACT + EST)
TOTAL RDT&E	3.173	3.064
TOTAL PROCUREMENT	3.273	0.800
TOTAL O&M	0.681	1.709
TOTAL OTHER	0.788	0.780
TOTAL ANNUAL LAB	7.915	6.353
TOTAL INHOUSE	5.203	5.056
TOTAL INHOUSE RDT&E	1.492	2.422
ANNUAL OPERATING COST	1.612	1.756

PERSONNEL	PERSONNEL DATA (END OF FY 1974)			
	AUTHORIZED STRENGTH	TOTAL PHDS	TOTAL PROF	NON- PROF
MILITARY	50	0	36	14
CIVILIAN	158	2	41	117
TOTAL	208	2	77	131

ACRES	SPACE AND PROPERTY SPACE (THOUSANDS OF SQUARE FEET)			COST (MILLION \$)		
	LAB	ADMIN	OTHER	TOTAL	REAL PROP	EQUIP
1084	50.400	23.397	25.536	99.333	2.111	2.180

...MISSION

CONDUCT RESEARCH, DEVELOPMENT, TEST AND EVALUATION CONCERNING BOTH THE DISPOSAL AND RENDERING-SAFE PROCEDURES FOR CONVENTIONAL AND SPECIAL WEAPONS, GUIDED MISSILES, UNDERWATER WEAPONS, EXPLOSIVES, BIO. AND CHEM. MUNITIONS, BOTH U.S. AND FOREIGN PLUS THE REQUIRED TOOLS AND EQUIPMENT.

...CURRENT IMPORTANT PROGRAMS

RANGE CLEARANCE AND DISPOSAL TECHNIQUES
REMOTE CASE ENTRY SYSTEMS
IMPROVISED EXPLOSIVE DEVICE COUNTERMEASURES
EXPLOSIVE CONTAINMENT STUDY
OD DIVER BREATHING SYSTEM

...FUNCTIONS/EQUIPMENT/CAPABILITIES

DEVELOP EXPLOSIVE ORDNANCE DISPOSAL EOD PROCEDURE, PREPARE AND PUBLISH EOD PUBLICATIONS FOR JOINT-SERVICE USE. CONDUCT EXP. AND ADV. DEVELOPMENT LEADING TO SPECIALIZED TOOLS AND EQUIP. NEEDED TO LOCATE, IDENTIFY, RECOVER, RENDER-SAFE AND DISPOSE OF ALL TYPES OF EXPLOSIVE ORDNANCE. PREPARE AND MAINTAIN DOCUMENTATION FOR EOD TOOLS AND EQUIP. CONDUCT FIRST ARTICLE INSPECTION ON EOD TOOLS BEING PROCURED FOR ALL SERVICES. CONDUCT IN-SERVICE ENGINEERING FUNCTIONS FOR EOD AND SWIMMER WEAPONS SYSTEM TOOLS. CONDUCT INITIAL EVALUATION OF FOREIGN EXPLOSIVE ORDNANCE. MAINTAIN, STOCK AND ISSUE EOD PUBLICATIONS FOR JOINT-SERVICE USE. CAPABILITY OF TESTING EOD TOOLS TO A DEPTH OF 400 FT IN A DIVING CHAMBER

INSTALLATION NAVAL MEDICAL FIELD RESEARCH LABORATORY

CAMP LEJEUNE, N.C.

C.O. CAPT JESSE F. ADAMS

PROGRAM	PROGRAM DATA BY FISCAL YEAR (MILLION \$)	
	1974 (ACTUAL)	1975 (ACT + EST)
TOTAL RDT&E	0.768	0.740
TOTAL PROCUREMENT	0.007	0.003
TOTAL O&M	0.000	0.000
TOTAL OTHER	0.358	0.411
TOTAL ANNUAL LAB	1.133	1.154
TOTAL INHOUSE	1.133	1.154
TOTAL INHOUSE RDT&E	0.768	0.740
ANNUAL OPERATING COST	0.220	0.280

PERSONNEL	PERSONNEL DATA (END OF FY 1974)			
	AUTHORIZED STRENGTH	TOTAL PHDS	TOTAL PROF	NON- PROF
MILITARY	31	4	7	24
CIVILIAN	42	1	4	38
TOTAL	73	5	11	62

ACRES	SPACE AND PROPERTY SPACE (THOUSANDS OF SQUARE FEET)			COST (MILLION \$)		
	LAB	ADMIN	OTHER	TOTAL	REAL PROP	EQUIP
3	29.816	8.655	19.381	57.852	0.563	0.743

...MISSION

CONDUCT RESEARCH, DEVELOPMENT, AND TESTING IN THE MEDICAL, DENTAL, AND ALLIED SCIENCES WITH PARTICULAR EMPHASIS ON PROBLEMS OF FIELD AND AMPHIBIOUS MEDICINE

...CURRENT IMPORTANT PROGRAMS

TROOP HEAT ACCLIMATIZATION AND EVAL OF FIELD WATER PURIFICATION SYSTEMS
RHABDOMYOLYSIS
NONGONOCOCCAL URETHRITIS AND GONORRHEA IN USMC PERSONNEL
DEV OF MODULAR FIELD AND SHIPBOARD MEDICAL FACILITIES
VECTOR CONTROL METHODS, EQUIPMENT AND SUPPLIES

...FUNCTIONS/EQUIPMENT/CAPABILITIES

CONDUCT RES IN PROBLEMS OF FIELD & AMPHIB MED&DEV, TEST & EVAL MED EQUIP & SUPPLIES & CLOTHING & EQUIP FOR USMC PERSONNEL USE & PROTECTION.
PRIMARY CAPABILITIES IN APPL RES, SPECIFICALLY IN AREAS OF MICROBIOL, PHYSIOL, STRESS PHYSIOL, ENTOMOL, ENVIRON BIOL, FLD MED EQUIP, BIOCHEM, ANIMAL INVESTIGATIONS. MAJOR EQUIP: BALLISTIC RANGE, HIGH-SPEED BECKMAN CAMERA, MATERIALS LAMINATION PRESS & SEALERS, SEWING EQUIP, 2-MAN RESP DIS ENVIRON CHAMBER, CLIMATIC CHAMBER, SMALL LOW-PRESSURE & LOW-TEMP CHAMBER, OXYGEN ANALYZER, UNRESTRICTED PHOTO CAPABILITY, PHOTO MICROSCOPE, CRYOSTAT, SOUND RECORDER, ANALYZER SPECTRUM, OSCILLATOR VOLTAGE CONTROL DUAL, SOUND SYSTEM WITH SPEAKER & CABINET

INSTALLATION NAVAL MEDICAL RESEARCH INSTITUTE

BETHESDA, MD.

C.O. CAPT KENNETH W. SELL

PROGRAM	PROGRAM DATA BY FISCAL YEAR (MILLION \$)	
	1974 (ACTUAL)	1975 (ACT + EST)
TOTAL RDT&E	5.341	5.620
TOTAL PROCUREMENT	0.000	0.000
TOTAL O&M	0.000	0.000
TOTAL OTHER	3.038	2.714
TOTAL ANNUAL LAB	8.379	8.334
TOTAL INHOUSE	8.379	8.334
TOTAL INHOUSE RDT&E	5.341	5.620
ANNUAL OPERATING COST	2.455	2.450

PERSONNEL	PERSONNEL DATA (END OF FY 1974)				NON- PROF
	AUTHORIZED STRENGTH	TOTAL PHDS	TOTAL PROF		
MILITARY	209	21	66		143
CIVILIAN	232	34	68		164
TOTAL	441	55	134		307

ACRES	SPACE AND PROPERTY SPACE (THOUSANDS OF SQUARE FEET)				COST (MILLION \$)		
	LAB	ADMIN	OTHER	TOTAL	REAL PROP	EQUIP	
4	151.730	21.561	26.590	199.881	4.016	5.730	

...MISSION
CONDUCT BASIC + APPLIED RESEARCH +
DEVELOPMENT CONCERNED WITH THE HEALTH
SAFETY + EFFICIENCY OF NAVAL
PERSONNEL

...CURRENT IMPORTANT PROGRAMS
TISSUE TYPING ORGAN TRANSPLANTS + IMMUNOSUPPRESSION IN RESTORATIVE SURG
VACCINE DEN FOR CONTROL OF MALARIA + SCHISTOSOMIASIS
HEAT + COLD STRESS IN HYPERBARIC + HIGH HUMIDITY ENVIRONMENT
BEHAVIOR IN HYPERBARIC ENVIRONMENTS
MECHANISMS OF ORAL PLAQUE DISEASE + TREATMENT OF ORAL DISEASE + TRAUMA

...FUNCTIONS/EQUIPMENT/CAPABILITIES
BASIC + DEVELOPMENTAL RESEARCH IN THE BIOPHYSICAL
DISCIPLINES + EFFECTING HUMAN HEALTH SAFETY + PERFORMANCE INCLUDING
HUMAN ENVIRONMENTAL STRESS FACILITIES INCLUDING
HYPERBARIC CHAMBER COMPLEX
TRANSMISSION + SCANNING ELECTRON MICROSCOPE
TISSUE PRESERVATION + TRANSPLANTATION CAPABILITIES
RESEARCH BIOCHEMISTRY
EXPERIMENTAL ANIMAL FACILITIES + ANIMAL HOUSE

INSTALLATION NAVAL MEDICAL RESEARCH UNIT NO. 2

TAIPEI, TAIWAN

C.O. CAPT P.F.D. VANPEENEN

CH. SCI. DR. JOHN CROSS

PROGRAM	PROGRAM DATA BY FISCAL YEAR (MILLION \$)	
	1974	1975
	(ACTUAL)	(ACT + EST)
TOTAL RDT&E	1.603	1.542
TOTAL PROCUREMENT	0.000	0.000
TOTAL O&M	0.000	0.000
TOTAL OTHER	0.693	0.693
TOTAL ANNUAL LAB	2.296	2.235
TOTAL INHOUSE	2.296	2.235
TOTAL INHOUSE RDT&E	1.603	1.542
ANNUAL OPERATING COST	0.673	0.633

PERSONNEL	PERSONNEL DATA (END OF FY 1974)			
	AUTHORIZED STRENGTH	TOTAL PHDS	TOTAL PROF	NON-PROF
MILITARY	39	7	24	15
CIVILIAN	9	1	4	5
TOTAL	48	8	28	20

ACRES	SPACE AND PROPERTY (THOUSANDS OF SQUARE FEET)			COST (MILLION \$)		
	LAB	ADMIN	OTHER	TOTAL	REAL PROP	EQUIP
2	32.882	16.075	48.364	97.321	0.101	0.939

...MISSION

CONDUCT RESEARCH AND DEVELOPMENT IN THE BIOMEDICAL SCIENCES. PROVIDE DATA ON DISEASES AND MEDICAL PROBLEMS OF MILITARY SIGNIFICANCE. RECOMMEND CONTROL MEASURES AND PROVIDE TRAINING IN RESEARCH AND DEV TECHNIQUES

...CURRENT IMPORTANT PROGRAMS

INFLUENCE OF ANTIBODY ON SUSCEPTIBILITY OF INFECT DIS MORBIDITY PERFORMANCE. HEPATITIS ANTIGENS DIST TRANSMISSION S E ASIA
STUDIES OF FILARIAS IN THE PHILIPPINES AND INDONESIA
SCHISTOSOMIASIS IN INDONESIA
ETIOLOGY OF FEBRILE ILLNESSES IN INDONESIA

...FUNCTIONS/EQUIPMENT/CAPABILITIES

CLINICAL STUDY OF DIAGNOSIS AND TREATMENT OF TROPICAL DISEASE AND EPIDEMIOLOGICAL STUDY OF INFECTIOUS DISEASES. COMPLETE RADIOISOTOPE EQUIPMENT AND COMPUTER CAPABILITY IN CLINICAL INVESTIGATION MICROBIOLOGY MEDICAL PHYSICS MEDICAL ECOLOGY BIOCHEMISTRY PATHOLOGY ANIMAL FACILITY

INSTALLATION NAVAL MEDICAL RESEARCH UNIT NO. 3

CAIRO, EGYPT

C.O. CAPT W.F. MINER

TECH. DIR.: NONE

PROGRAM	PROGRAM DATA BY FISCAL YEAR (MILLION \$)	
	1974 (ACTUAL)	1975 (ACT + EST)
TOTAL RDT&E	0.700	0.378
TOTAL PROCUREMENT	0.000	0.000
TOTAL O&M	0.000	0.000
TOTAL OTHER	1.333	0.601
TOTAL ANNUAL LAB	2.033	0.979
TOTAL INHOUSE	1.548	0.979
TOTAL INHOUSE RDT&E	0.700	0.378
ANNUAL OPERATING COST	0.480	0.240

PERSONNEL	PERSONNEL DATA (END OF FY 1974)				NON-PROF
	AUTHORIZED STRENGTH	TOTAL PHDS	TOTAL PROF		
MILITARY	23	4	8		15
CIVILIAN	229	8	30		199
TOTAL	252	12	38		214

ACRES	SPACE AND PROPERTY SPACE (THOUSANDS OF SQUARE FEET)			COST (MILLION \$)		
	LAB	ADMIN	OTHER	TOTAL	REAL PROP	EQUIP
3	22.789	7.508	34.543	64.840	0.344	0.031

...MISSION

CONDUCT BASIC RESEARCH IN BIOMEDICAL SCIENCE, PROVIDE ESSENTIAL INFO ON DISEASES & MEDICAL PROBLEMS OF MILITARY SIGNIFICANCE & RECOMMEND CONTROL MEASURES FOR INFECTIOUS DISEASES ENDEMIC OR EPIDEMIC TO SPECIFIC AREAS WORLD-WIDE.

...CURRENT IMPORTANT PROGRAMS

MENINGITIS STUDY

PATHOPHYSIOLOGY AND TREATMENT OF SCHISTOSOMIASIS.

ARTHROPOD VIRUS ISOLATIONS IN TICKS, MOSQUITOES, AND SANDFLIES.

THERAPEUTIC DRUG STUDY OF INFECTIOUS DISEASES.

PATHOLOGY STUDY OF THE COURSE OF DEAFNESS IN MENINGITIS PATIENTS.

...FUNCTIONS/EQUIPMENT/CAPABILITIES

TECHNICON TISSUE PROCESSOR, HEWLETT PACKARD MODEL 9100 CALCULATOR, PICKER NUCLEAR MAGNASCANNER, PERKIN-ELMER ATOMIC ABSORPTION SPECTROPHOTOMETER, PERKINS-ELMER GAS CHROMATOGRAPH, COULTER BLOOD CELL COUNTER, PICKER X-RAY APPARATUS, CARDIOGRAPH, WANG ELECTRONIC CALCULATOR & AO FLOURESCENT MICROSCOPE, GUILFORD MODEL 240 SPECTROPHOTOMETER, ANSCO AUTOCLAVES, I L BLOOD GAS APPARATUS, ANALYTIC SCANNER & INTEGRATOR, UNICOM UV SPECTROPHOTOMETER, REYCO FREEZERS, METTLER BALANCES, CLIMITIZER, PATIENT WARD, PUBLIC WORKS FACILITY, WORLD'S MOST COMPLETE TICK COLLECTION AND MODERN LABORATORY TO STUDY COMMUNICABLE DISEASES OF MILITARY OR POTENTIAL MILITARY IMPORTANCE

INSTALLATION NAVAL MISSILE CENTER

POINT MUGO, CA.

C.O. CAPT IRA N. SCHWARTZ

TECH. DIR. MR. THADDEUS P. PERRY

PROGRAM	PROGRAM DATA BY FISCAL YEAR (MILLION \$)	
	1974 (ACTUAL)	1975 (ACT + EST)
TOTAL RDT&E	46.273	45.174
TOTAL PROCUREMENT	25.599	38.246
TOTAL O&M	17.794	15.861
TOTAL OTHER	6.640	18.410
TOTAL ANNUAL LAB	96.306	117.691
TOTAL INHOUSE	74.462	88.656
TOTAL INHOUSE RDT&E	36.310	32.413
ANNUAL OPERATING COST	19.003	22.650

PERSONNEL	PERSONNEL DATA (END OF FY 1974)				NON-PROF
	AUTHORIZED STRENGTH	TOTAL PHDS	TOTAL PROF		
MILITARY	480	3	84		396
CIVILIAN	1811	9	738		1073
TOTAL	2291	12	822		1469

ACRES	SPACE AND PROPERTY (THOUSANDS OF SQUARE FEET)			COST (MILLION \$)		
	LAB	ADMIN	OTHER	TOTAL REAL PROP	EQUIP	
4	144.973	229.777	239.801	614.551	24.100	39.056

...MISSION
TO PERFORM TEST, EVALUATION, DEVELOPMENT SUPPORT AND EXERCISE ENGINEERING
COGNIZANCE AS ASSIGNED OF NAVAL WEAPON SYSTEMS AND RELATED DEVICES

...CURRENT IMPORTANT PROGRAMS
F-14A/PHOENIX DEVELOPMENT TESTING
AIRBORNE ELECTRONIC COUNTERMEASURES R&D
ENGINEERING COGNIZANCE OF AIR LAUNCHED WEAPONS
AIR-TO-AIR, AIR-TO SURFACE MISSILE PRODUCTION TESTING
T AND E OF AERIAL AND SURFACE TARGETS

...FUNCTIONS/EQUIPMENT/CAPABILITIES
PERFORM TESTS AND CONDUCT TECH EVALUATIONS OF NAVAL AIRBORNE WEAPONS
GUIDED MISSILE SUBSYSTEMS AND RELATED SUPPORT EQUIP, PERFORM BIS TRIPS
FOR INTERRELATED AIRBORNE WEAPONS SYSTEMS, PERFORM PROD MONITORING TESTS
OF GUIDED MISSILE LOTS & PROVIDE ENG COGNIZANCE AND FIELD ENG SERVICES
ON ASSIGNED OPERATIONAL AIRBORNE WEAPONS AND TARGETS SYSTEMS & PROVIDE
ENGINEERING MANAGEMENT AND SUPPORT FOR FW EQUIPMENT DURING DEV AND
DEPLOYMENT PERFORM DEV TLE OF AIRBORNE AND SURFACE TARGET SYSTEMS. MAJOR
FAC: TEST OPERATIONS. FAC ROCKET ENGINE TEST FAC INTEGRATED SYSTEMS
SIMULATION FAC TARGETS FAC PHOTOGRAPHICS FAC INFRARED LASER END
OPTICS LAB

INSTALLATION NAVAL ORDNANCE LABORATORY

WHITE OAK, MD.

C.O. CAPT ROBERT WILLIAMSON II

TECH. DIR. DR. ROBT. E. WILSON, ACTG

PROGRAM DATA BY FISCAL YEAR (MILLION \$)

PROGRAM	1974 (ACTUAL)	1975 (ACT + EST)
TOTAL RDT&E	86.555	81.220
TOTAL PROCUREMENT	9.741	12.610
TOTAL O&M	3.767	3.921
TOTAL OTHER	8.379	10.966
TOTAL ANNUAL LAB	108.442	108.717
TOTAL INHOUSE	65.530	68.295
TOTAL INHOUSE RDT&E	46.656	45.529
ANNUAL OPERATING COST	25.473	27.753

PERSONNEL	PERSONNEL DATA (END OF FY 1974)	TOTAL		NON- PROF
		AUTHORIZED STRENGTH	PHOS	
MILITARY	40	0	22	18
CIVILIAN	2791	171	1140	1651
TOTAL	2831	171	1162	1669

ACRES	SPACE AND PROPERTY (THOUSANDS OF SQUARE FEET)			COST (MILLION \$)	
	LAB	ADMIN	OTHER	TOTAL	EQUIP
1060	421.131	191.851	863.512	1476.494	49.400

...MISSION
TO BE THE PRINCIPAL NAVY RDT&E CENTER FOR ORDNANCE TECHNOLOGY, CONCEPTS AND SYSTEMS. CAPABILITIES FOR STRATEGIC SYSTEMS, NAVAL MINE SYSTEMS, MULTI MEDIA WEAPONS SYSTEMS, DIRECTED ENERGY SYSTEMS, FUZE DEVEL, INSHORE WARFARE ORDNANCE, SMALL CRAFT ARMAMENT, SWIMMER WEAPONS SYSTEMS, ORD. TECHNOLOGY

...CURRENT IMPORTANT PROGRAMS
TORPEDO MK48-1
CAPTOR DEVELOPMENT
HIGH ENERGY LASER RESEARCH AND DEVELOPMENT
UNDERKEEL TECHNOLOGY
QUICK STRIKE

...FUNCTIONS/EQUIPMENT/CAPABILITIES
WIND TUNNELS TO MACH 20& BALLISTICS RANGES FOR FREE FLIGHT MODEL STUDIES& HYDROBALLISTIC TANK 1.75 MILLION GALLON CAPACITY FOR STUDY OF RELATIVELY LARGE MODELS AT HIGH SPEED ENTRY& CENTRIFUGE TO STUDY U/W EXPLOSIONS& FACILITIES FOR TESTING AND RESEARCH IN THE CHEMISTRY OF EXPLOSIVES AND PROPELLANTS& EXTENSIVE LABORATORY AND FIELD FACILITIES FOR TESTING ORDNANCE UNDER NATURAL AND/OR SIMULATED CONOITIONS& MAGNETIC STRUCTURE FACILITY TO STUDY MAGNETIC CHARACTERISTICS OF SUB-MARINES, SHIPS AND SATELLITES& HIGH-ARC FACILITY& CDC 6400 COMPUTER EMPRESS FACILITY, VULNERABILITY AND HARDENING BUILDING, HYDROACOUSTIC FACILITY

INSTALLATION NAVAL ORDNANCE MISSILE TEST FACILITY

WHITE SANDS M.R., N.M

C.O. CAPT H.E. DAVIS

CH. ENG. DR. W.W. BOHN

PROGRAM	PROGRAM DATA BY FISCAL YEAR (MILLION \$)	
	1974	1975
	(ACTUAL)	(ACT + EST)
TOTAL RDT&E	1.203	2.473
TOTAL PROCUREMENT	0.472	0.302
TOTAL O&M	0.040	0.040
TOTAL OTHER	2.388	1.647
TOTAL ANNUAL LAB	4.103	4.462
TOTAL INHOUSE	3.150	3.253
TOTAL INHOUSE RDT&E	0.910	1.519
ANNUAL OPERATING COST	0.790	0.878

PERSONNEL	PERSONNEL DATA (END OF FY 1974)			
	AUTHORIZED STRENGTH	TOTAL PHDS	TOTAL PROF	NON-PROF
MILITARY	148	0	130	18
CIVILIAN	76	1	5	71
TOTAL	224	1	135	89

ACRES	SPACE AND PROPERTY			COST (MILLION \$)		
	SPACE (THOUSANDS OF SQUARE FEET)			TOTAL	REAL PROP	EQUIP
	LAB	ADMIN	OTHER			
112	84.310	30.540	252.090	366.940	0.710	3.501

...MISSION

SUPPORT THE NAVY GUIDED MISSILE AND RESEARCH ROCKET PROGRAMS INCLUDING GROUND AND FLIGHT TESTING& ASSIST JOINT SERVICE LASER GUIDED WEAPONS COUNTERMEASURE TEST PROGRAM& PARTICIPATE IN THE OPERATION OF THE DOD INTEGRATED MISSILE TEST AT WHITE SANDS.

...CURRENT IMPORTANT PROGRAMS

STANDARD MISSILE 1 AND 2/AEGIS FLIGHT TESTING
VELARC MISSILE GUIDANCE SYSTEM FLIGHT TESTING
CRUISE MISSILE GUIDANCE SYSTEM FLIGHT TESTING
UPPER ATMOSPHERIC RESEARCH ROCKET LAUNCHING
SKYLAB CALIBRATION ROCKET LAUNCHES

...FUNCTIONS/EQUIPMENT/CAPABILITIES

FLIGHT TEST TALOS, TERRIER, TARTAR, STANDARD, SAM GUIDED MISSILES
FLIGHT TEST TALOS, STANDARD ANTI-RADIATION MISSILES
LAUNCH AEROBEE 150, 170, 200, 350, ARIES, ASTROBEE F, D, BLACK BRANT AND VARIOUS OTHER SOUNDING ROCKETS FOR UPPER ATMOSPHERIC STUDY
CONDUCT NAVY AIR WEAPON TESTS
LAUNCH VARIOUS ROCKETS IN SUPPORT OF NASA PROJECTS
LAUNCH VARIOUS ROCKETS IN SUPPORT OF AIR FORCE PROJECTS
LAUNCH AEROBEE 350 ROCKETS IN SUPPORT OF ARMY BALLISTIC MISSILE PROJECTS
CONDUCT VARIOUS DEVELOPMENT TEST FOR SSM AND SAM PROJECTS
MAINTAIN TARGET ECM EQUIPMENT FOR AIR FORCE SUPPRESSION PROJECT
ASSIST IN OPEVAL CONDOR MISSILE

INSTALLATION NAVAL RESEARCH LABORATORY

WASHINGTON, D.C.

C.O. CAPT JOHN T. GEARY

DIR. OF RSCH. DR. ALAN BERMAN

PROGRAM	PROGRAM DATA BY FISCAL YEAR (MILLION \$)	
	1974 (ACTUAL)	1975 (ACT + EST)
TOTAL RDT&E	156.790	141.992
TOTAL PROCUREMENT	11.246	11.987
TOTAL O&M	1.902	1.659
TOTAL OTHER	5.416	6.427
TOTAL ANNUAL LAB	175.354	162.065
TOTAL INHOUSE	170.499	158.112
TOTAL INHOUSE RDT&E	151.935	138.039
ANNUAL OPERATING COST	35.637	38.636

PERSONNEL	PERSONNEL DATA (END OF FY 1974)			
	AUTHORIZED STRENGTH	TOTAL PHDS	TOTAL PRDF	NON- PROF
MILITARY	138	2	7	131
CIVILIAN	3678	502	1546	2132
TOTAL	3816	504	1553	2263

ACRES	SPACE AND PROPERTY			CDST (MILLION \$)	
	SPACE (THOUSANDS OF SQUARE FEET)	LAB	ADMIN	TOTAL REAL PROP	EQUIP
2133	2451.497	236.566	623.666	3311.729	81.992
					74.194

...MISSION
TO CONDUCT A BROADLY BASED MULTIDISCIPLINARY PROGRAM OF SCIENTIFIC RESEARCH AND ADVANCED TECHNOLOGICAL DEVELOPMENT DIRECTED TOWARD NEW AND IMPROVED MATERIALS, EQUIPMENT, TECHNIQUES, SYSTEMS, AND RELATED OPERATIONAL PROCEDURES FOR THE NAVY.

...CURRENT IMPORTANT PROGRAMS
FLEET SATELLITE COMMUNICATIONS
EFFECTIVENESS OF NAVAL ELECTRONIC WARFARE SYSTEMS
HIGH ENERGY LASER, GENERATION, PROPAGATION, AND EFFECTS PROGRAM
SATELLITE PROGRAMS
ADVANCED ACOUSTIC ANTI-SUBMARINE WARFARE SURVEILLANCE PROGRAM

...FUNCTIONS/EQUIPMENT/CAPABILITIES
PRINCIPAL RESEARCH AND DEVELOPMENT LABORATORY OF THE NAVY. PRIMARY AREAS ARE MATERIALS SCIENCE AND TECHNOLOGY, SPACE SCIENCE AND TECHNOLOGY, RADAR, ELECTRONIC WARFARE, LASER TECHNOLOGY, OPTICS, OPTICAL WARFARE, ELECTRONIC DEVICES, PLASMA AND NUCLEAR PHYSICS, INTELLIGENCE SUPPORT, UNDERSEA SURVEILLANCE, OCEAN SCIENCE AND TECHNOLOGY. MAJOR FACILITIES INCLUDE TWO SHIPS FOR ACOUSTIC ASW RESEARCH, OCEANOGRAPHY, AND DEEP OCEAN SEARCH. MAJOR ACOUSTIC STANDARD AND CALIBRATION FACILITIES. HIGH LEVEL RADIATION LABORATORY. THREE NUCLEAR PARTICLE ACCELERATORS. DIVERS HIGH ENERGY LASERS. 200 KILOGAUSS HIGH FIELD MAGNET FACILITY. SPACE SIMULATION FACILITIES.

INSTALLATION NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER WASHINGTON, D.C.

C.O. CAPT P.W. NELSON

TECH. DIR. DR. A. POWELL

PROGRAM	PROGRAM DATA BY FISCAL YEAR (MILLION \$)	
	1974 (ACTUAL)	1975 (ACT + EST)
TOTAL RDT&E	63.724	66.132
TOTAL PROCUREMENT	1.682	1.655
TOTAL OEM	12.663	12.668
TOTAL OTHER	10.914	10.904
TOTAL ANNUAL LAB	88.983	91.359
TOTAL INHOUSE	60.124	62.532
TOTAL INHOUSE RDT&E	45.466	47.047
ANNUAL OPERATING COST	23.220	26.440

PERSONNEL	PERSONNEL DATA (END OF FY 1974)				NON- PROF
	AUTHORIZED STRENGTH	TOTAL PHDS	TOTAL PROF		
MILITARY	68	0	17		51
CIVILIAN	2905	104	1263		1642
TOTAL	2973	104	1280		1693

ACRES	SPACE AND PROPERTY				COST (MILLION \$)	
	SPACE (THOUSANDS OF SQUARE FEET)			TOTAL	REAL PROP	EQUIP
	LAB	ADMIN	OTHER			
322	393.522	187.814	1405.876	1987.212	66.850	48.926

...MISSION

TO BE THE PRINCIPAL NAVY RDT&E CENTER FOR NAVAL VEHICLES, TO PROVIDE RDT&E SUPPORT TO THE U.S. MARITIME ADMINISTRATION AND THE MARITIME INDUSTRY, AND TO PROVIDE LABORATORY MANAGEMENT SERVICES FOR THE CHIEF OF NAVAL MATERIAL.

...CURRENT IMPORTANT PROGRAMS

HYDROFOIL SHIPS (PHM SUPPORT)
SUBMARINE SPEED AND CONTROL IMPROVEMENT
SHIPBOARD POLLUTION CONTROL
CIRCULATION CONTROL HELICOPTER ROTOR
AMPHIBIOUS ASSAULT LANDING CRAFT (AALC)

...FUNCTIONS/EQUIPMENT/CAPABILITIES

PLAN AND CONDUCT RDT&E AND PROVIDE SUPPORT OF THE OPERATING FORCES IN THE AREAS OF NAVAL ARCHITECTURE, HYDROMECHANICS, STRUCTURAL MECHANICS, AERODYNAMICS, COMPUTER ANALYSIS + MATHEMATICS, ACOUSTICS + VIBRATIONS, PROPULSION AND AUXILIARY MACHINERY, SHIP ELECTRICAL SYSTEMS, MATERIAL FOR SHIP STRUCTURES AND EQUIPMENT, SHIPBOARD POLLUTION CONTROL. FACILITIES INCLUDE: DEEP, SHALLOW, AND HIGH SPEED TOWING BASINS, MANEUVERING-SEAKEEPING AND ROTATING ARM TOWING BASINS, TRANSONIC AND SUB SONIC WIND TUNNELS, WATER TUNNELS, CIRCULATING WATER CHANNEL, DEEP SUBMERGENCE PRESSURE TANKS, ACOUSTIC DATA ANALYSIS CENTER, ANECHOIC FLOW FACILITY, LARGE SCALE STRUCTURAL RESEARCH FACILITY, MAGNETICS FACILITY, POLLUTION CONTROL LABORATORY, AND BALLAST BLOW FACILITY.

INSTALLATION NAVAL SPACE SYSTEMS ACTIVITY

LOS ANGELES, CA.

CDR TT COLE

TECH. DIR.: NONE

PROGRAM	PROGRAM DATA BY FISCAL YEAR (MILLION \$)	
	1974 (ACTUAL)	1975 (ACT + EST)
TOTAL RDT&E	2.257	2.137
TOTAL PROCUREMENT	0.431	2.041
TOTAL O&M	0.755	1.882
TOTAL OTHER	0.241	0.241
TOTAL ANNUAL LAB	3.684	6.301
TOTAL INHOUSE	0.999	0.877
TOTAL INHOUSE RDT&E	0.673	0.636
ANNUAL OPERATING COST	0.000	0.000

PERSONNEL	PERSONNEL DATA (END OF FY 1974)			NUN- PROF
	AUTHORIZED STRENGTH	TOTAL PHDS	TOTAL PROF	
MILITARY	9	0	8	1
CIVILIAN	28	1	18	10
TOTAL	37	1	26	11

ACRES	SPACE AND PROPERTY			COST (MILLION \$)		
	SPACE (THOUSANDS OF SQUARE FEET)			TOTAL	REAL PROP	EQUIP
	LAB	ADMIN	OTHER			
0	0.000	6.000	0.000	6.000	0.000	0.017

...MISSION
MANAGE DEVEL SPACE SYST
LONG RANGE STUDIES SPACE TECH APPL TO NAVY
JOINT SERV SPACE PRDG
COORD WITH USAF SAMSO

...CURRENT IMPORTANT PROGRAMS
SATELLITE OCEAN SURVEILLANCE
METEOROLOGICAL SATELLITE
SATELLITE COMMUNICATIONS
GLOBAL POSITIONING
SPACE TEST PROGRAM AND SHUTTLE

...FUNCTIONS/EQUIPMENT/CAPABILITIES
FOCAL POINT FOR NAVY SPACE EXPERIMENTS
SINGLE POINT OF CONTACT WITH USAF SAMSO FOR ALL SPACE MATTERS
COORD USN SPACE EFFORT WITH DOD & NASA SPACE RELATED PROGRAMS

INSTALLATION NAVAL SUBMARINE MEDICAL RESEARCH LABORATORY GROTON CT
C.O. CDR R.L. SPHAR

SCI. DIR. DR C.F. GELL

PROGRAM	PROGRAM DATA BY FISCAL YEAR (MILLION \$)	
	1974 (ACTUAL)	1975 (ACT + EST)
TOTAL RDT&E	1.449	1.593
TOTAL PROCUREMENT	0.000	0.000
TOTAL O&M	0.000	0.000
TOTAL OTHER	0.465	0.433
TOTAL ANNUAL LAB	1.914	2.026
TOTAL INHOUSE		
TOTAL INHOUSE RDT&E	1.914	2.026
ANNUAL OPERATING COST	1.449	1.593
	0.046	0.140

PERSONNEL	PERSONNEL DATA (END OF FY 1974)			
	AUTHORIZED STRENGTH	TOTAL PHDS	TOTAL PROF	NON- PROF
MILITARY	36	8	15	21
CIVILIAN	65	11	30	35
TOTAL	101	19	45	56

ACRES	SPACE AND PROPERTY			COST (MILLION \$)	
	SPACE (THOUSANDS OF SQUARE FEET)	LAB	ADMIN	OTHER	TOTAL
0	23.325	6.441	13.118	42.884	0.000
					1.002

...MISSION
TO CONDUCT BASIC AND APPLIED RESEARCH IN SUBMARINE AND DIVING MEDICINE,
CLOSED ENVIRONMENTS IN AREAS OF PHYSIOL.MEDICAL PSYCHOL.VISION,AUDITION,
HUMAN FAC.ENG.,DENTISTRY,MIL.APPLICATIONS,TO MEET NAVY REQ.,AND FURNISH
RES.AND MEDICAL ASSISTANCE TO SUB AND DIVING SHORE AND FLEET ACTIVITIES.

...CURRENT IMPORTANT PROGRAMS
1.EFFECTS OF ENVIRONMENTAL STRESS ON SUBMARINE PERS,A PROGRAM OF HABITA-
BILITY STUDIES IN THE LAB AND AT SEA 2.ESTABLISHMENT OF PHYSIOLOGICAL LIM
ITS OF SATURATION-EXCURSION DIVING 3.LONGITUDINAL HEALTH STUDY OF SUB
AND DIVING PERS. 4.ORAL HEALTH EFFECTS OF SUB ENVIRONMENT AND PREVENTIVE
CARE 5.SELECTION AND RETENTION OF SUBMARINE AND DIVING PERSONNEL.

...FUNCTIONS/EQUIPMENT/CAPABILITIES
HYPERBARIC CHAMBERS,HUMAN-150PSI,ANIMAL,300 PSI,1000 PSI,ENVIR,CONTROL
CHAMBERS,UNDERWATER VISION TEST POOL,ANECHOIC SUITE,MOBILE BIO-ACOUSTIC
VAN,ANIMAL CARE-HOUSING FAC.,GROUP ORAL HLTH.RES.FAC.,DENTAL OPERATORY,
MICROBIOL-ISOLATION FAC.,APPARATUS-MODEL SHOP,TECH.LID.,DATA PROC.,GRA-
PHIC ARTS-PHOTO LAB.,PUB.DUP.FAC.,RADIOISOTOPE HANDLING-STORAGE FAC.,DA-
TA COND-LOGGING SYST.,DIGITAL COMPT.,ANALOG COMPT.,HI-PRESS.REACTION
VESSEL,BIOTELEMETRY SYST.,MASS SPECS.,ATOMIC ABSORP.SPTMTR.,GAS CHRONATO
GRAPH,BODY PLETHYSMOGRAPH,TREADMILL,PORT.X-RAY SYST.,TECHNICON AUTOANAL.
SURGICAL SUITE,HISTO-PATHOL.LAB,BIOCHEM LABS,BIOENG.LAB,PUL.FUNC.EXER-
CISE LAB,CARDIOPUL.-BLOOD ANAL.LAB,COMP.AUTOMATED HU.FAC.ENG LABS.MULTI-
CHANNEL MAG-TAPE SYST,CLSD CIRCUIT TV SYST,REFRIG,HI SPEED CENTRIFUGE,
NITROGEN FREEZE UNIT,FLUIDIC CONTR.CONSOLE,AIR ION MONITORING SYST.

INSTALLATION NAVAL UNDERSEA CENTER

SAN DIEGO CA

C.O. CAPT R.H. GAUTIER

TECH. DIR. MR D.J. WILCOX, ACTING

PROGRAM	PROGRAM DATA BY FISCAL YEAR (MILLION \$)	
	1974	1975
	(ACTUAL)	(ACT + EST)
TOTAL RDT&E	57.263	55.284
TOTAL PROCUREMENT	8.837	15.688
TOTAL O&M	7.322	5.642
TOTAL OTHER	7.191	6.945
TOTAL ANNUAL LAB	80.613	83.559
TOTAL INHOUSE	49.309	49.838
TOTAL INHOUSE RDT&E	35.446	35.170
ANNUAL OPERATING COST	18.217	17.241

PERSONNEL	PERSONNEL DATA (END OF FY 1974)			
	AUTHORIZED	TOTAL	TOTAL	NON-
	STRENGTH	PHDS	PROF	PROF
MILITARY	264	0	14	250
CIVILIAN	1656	105	696	960
TOTAL	1920	105	710	1210

ACRES	SPACE AND PROPERTY				COST (MILLION \$)	
	SPACE (THOUSANDS OF SQUARE FEET)			TOTAL	REAL PROP	EQUIP
	LAB	ADMIN	OTHER			
37613	409.166	47.353	322.075	778.594	45.610	51.023

...MISSION
MISSION OF THE CENTER IS TO BE THE PRINCIPAL NAVY RESEARCH, DEVELOPMENT, TEST AND EVALUATION CENTER FOR UNDERSEA SURVEILLANCE, OCEAN TECHNOLOGY AND ADVANCED UNDERSEA WEAPONS SYSTEMS.

...CURRENT IMPORTANT PROGRAMS
ADV U/S SURVEILLANCE INCL LG APERTURE + TOWED ARRAYS.
T+E OF MAJOR SURVL SYS. ADV SONAR TECHNIQS, FLEET SONAR SYS IMPROVEMENT. ASW WEAPONS SYS DEV, LG ADV TORPEDO TECHNOL, SUB LAUNCHED MISSILE TECHNOL, FIRE CONTROL SYS, ACOUSTIC C/M. MARINE BIOSYS. USW OCEANOGR RSCH. OCEAN ENGRG, EG UNMANNED REMOTE U/S WORK SYSTEM.

...FUNCTIONS/EQUIPMENT/CAPABILITIES
UNDERSEA SURVL. UNDERSEA/SURFACE WEAPONS + FIRE CONTROL SYS, LTWT TORPE-DOES, HIGH SPEED VEHICLE + HIGH RESOLUTION SONARS, UW ACOUSTIC WARFARE SYS, REMOTE CONTROL UW SYS, OCEAN TECHNOL + ENGRG, MARINE BIOSCI, MAR MAMMAL SYS, ACOUSTIC PROPAGATION (PAC/ARC), PACFLT ASW SUPPT, ARCTIC SUBMARINE SYS. RDT+E LABS SDIEGO, HAWAII. SEA TEST/ENGRG RANGES CLEMENTE IS, MORRIS DAM, LBEACH. CALIBRATION STA. ARCTIC FIELD STA. ALASKA. ARCTIC SUB LAB + POLAR ICE SIMULATOR. MAR BIOSCI FAC. TRANS-DUCER EVAL CTR. ANECHOIC ALL FREQS. ASW COMPUTER SIM CTR/UNIVAC 1110 COMPUTER. RSCH SHIPS + CRAFT. DATA ACQ, PLAYBACK + ANAL FAC FOR DEV/EVAL OF SIG PROC TECHNIQS. RESCUE SYS TEST FAC + DEV/TEST FACS FOR LTWT AIRDROP TORPEDUES. UNMND REMOTE U/S WORK SYS EG CABLE CONTROL UW RECOVY VEHICLE. UW OBSERV PLATFORMS, VAR ANGLE LAUNCHER,

INSTALLATION NAVAL UNDERWATER SYSTEMS CENTER

NEWPORT, R.I.

C.O. CAPT M.C. MCFARLAND

TECH. DIR. MR. HAROLD NASH

PROGRAM DATA BY FISCAL YEAR (MILLION \$)

PROGRAM	1974 (ACTUAL)	1975 (ACT + EST)
TOTAL RDT&E	50.977	62.178
TOTAL PROCUREMENT	42.236	37.630
TOTAL O&M	31.698	37.225
TOTAL OTHER	9.013	7.410
TOTAL ANNUAL LAB	133.924	144.443
TOTAL INHOUSE	107.515	115.919
TOTAL INHOUSE RDT&E	40.782	49.742
ANNUAL OPERATING COST	22.945	26.449

PERSONNEL DATA (END OF FY 1974)

PERSONNEL	AUTHORIZED STRENGTH	TOTAL PHDS	TOTAL PROF	NON- PROF
MILITARY	148	2	41	107
CIVILIAN	3238	101	1474	1764
TOTAL	3386	103	1515	1871

SPACE AND PROPERTY

ACRES	SPACE (THOUSANDS OF SQUARE FEET)	COST (MILLION \$)
	LAB ADMIN OTHER TOTAL	REAL PROP EQUIP
362	810.199 107.528 481.024 1398.751	30.580 37.888

...MISSION

ESTABLISH & MAINTN IN-HOUSE R&D CAPABLTY FOR FOLLWNG SYS,SUBSYS,TECH SO-
NAR SYS/ SUB COMCATN SYS INTEGRTN INCL SUB ANTENA SYS/UNDRWTR WEAPN &
TRGT SYS/UNDRWTR ACOUSTIC PROPAGTN-LANT&MED/UNDRWTR RANGE TECHNOLOGY/
READINESS OF IN-SERV SHIPBOARD UNDRWTR SYS/ASW SUPPORT CINLANTFLT.

...CURRENT IMPORTANT PROGRAMS

CONDUCT A BRIDGNG ADV TECHGY PRGRM IN UW ACUSTCS-OCAN ENNG-OCANLGY-INFO
PROCNG-WPONRY SPRNG SYTS DEV*DSGN-DEV&EVAL U/W CMBAT SUB SYTS(SONR-E/M-
COMND&CNTRL-WPNS-LNCHRS-ETC)INCDG DSGN&DEV OF SRFC SHIP SONR MORDNZTN
SUB SYTS*RDT&E FOR OVRAL U/W CMBT SYSTS(TRIDNT-688ETC)*DSGN-DEV&EVAL OF
U/W TRGT SYSTS&MOBL&FXD U/W TST RNGS*INTRO FLET INSRVC ENNG OF MK 48.

...FUNCTIONS/EQUIPMENT/CAPABILITIES

SONAR SYSTMS(HULLMOUNTD-TOWED)/SUB COMUNCTNS SYSTMS INTRGATN INCLDG SUB
ANTAN SYSTMS/UNDERWATR WEAPN SYSTMS(EXPT MINES & STRTGC SYSTMS)/UNDRWTR
TARGT SYSTMS/UNDRWATR ACOUSTIC PROPAGATN-LANT OCN & MED C/UNDRWATR RANGE
TECHNLGY/READINESS OF IN SERV SHIP BUEAR-UNDRWATR SYSTMS/ASW SUPPORT
CINLANTFLT.MJR MISON-TO BE THE PROPL RDT&E CTR FOR U/W COMBAT SYSTEMS.
TRPDO TST RNGS(FIXED & PRIBL) SHALLW & DEEP WATR/ASW WPN FIRE CONTROL RE
SRCH & DVLPMNT FCILITY/ASW WPN LNCHING DEVIC RSRCH & DVLPMNT FCILITY/QL-
ITY ENGRNG EVALUTN & RELBLTY LAB/BERMUDA RSRCH FCILITY/ TRPDO PRPLSN
TST FCILITY/ELECTMGNT FCLTY FISH ISLD/ SYSTM CERTCH & INTRGRATN FCLTY/
ACSTS MSRMNT & TRMSOCR RSRCH & EVLTN FCLTYS LAK SENECA DODG PND & MLGTN
QURY/NARGNST BY TRPDO TST RNG/ ELUTHRA INSTRMTN SHLTR ELUTHRA ISLD BAHAM
/ATLNTC UNDRC TST & EVLTN CNTR/AZRS FXD ACSTC RNG(AFAR)FCLTY.

INSTALLATION NAVAL UNIT, FORT DETRICK

FREDERICK, MD.

C.O. CDR S.W. JOSEPH

PROGRAM	PROGRAM DATA BY FISCAL YEAR (MILLION \$)	
	1974 (ACTUAL)	1975 (ACT + EST)
TOTAL RD&E	0.073	0.013
TOTAL PROCUREMENT	0.000	0.000
TOTAL O&M	0.000	0.000
TOTAL OTHER	0.160	0.102
TOTAL ANNUAL LAB	0.233	0.115
TOTAL INHOUSE	0.233	0.115
TOTAL INHOUSE RD&E	0.073	0.013
ANNUAL OPERATING COST	0.020	0.020

PERSONNEL	PERSONNEL DATA (END OF FY 1974)				NON- PROF
	AUTHORIZED STRENGTH	TOTAL PHDS	TOTAL PROF		
MILITARY	11	3	5		6
CIVILIAN	1	0	0		1
TOTAL	12	3	5		7

ACRES	SPACE AND PROPERTY SPACE (THOUSANDS OF SQUARE FEET)			COST (MILLION \$)		
	LAB	ADMIN	OTHER	TOTAL	REAL PROP	EQUIP
0	1.788	2.526	0.700	5.014	0.000	0.131

...MISSION

PROMOTE MODERN BIOMEDICAL RESEARCH JOINTLY WITH THE DEPT OF THE ARMY
 STUDY DEFENSE AGAINST CHEMICAL AGENTS
 DETERMINE BIOLOGICAL EFFECTS OF NONIONIZING RADIATION
 MONITOR NONIONIZING RADIATION HAZARDS AND DETERMINE SAFETY STANDARDS

...CURRENT IMPORTANT PROGRAMS

DEVELOPMENT OF RADIOIMMUNOLOGICAL ASSAY METHOD FOR ATROPINE
 STUDY OF THE BIOLOGICAL EFFECTS OF NONIONIZING RADIATION

...FUNCTIONS/EQUIPMENT/CAPABILITIES

RAPID IDENTIFICATION TECHNIQUES OF VIRUSES

INSTALLATION NAVAL WEAPONS CENTER

CHINA LAKE, CA.

CDR. RADM R.G. FREEMAN, III

TECH. DIR. DR G.L. HOLLINGWORTH

PROGRAM DATA BY FISCAL YEAR (MILLION \$)

PROGRAM	1974 (ACTUAL)	1975 (ACT + EST)
TOTAL RDT&E	106.442	91.182
TOTAL PROCUREMENT	62.936	36.568
TOTAL O&M	10.698	12.590
TOTAL OTHER	37.691	46.581
TOTAL ANNUAL LAB	217.767	186.921
TOTAL INHOUSE	120.676	113.950
TOTAL INHOUSE RDT&E	67.816	67.000
ANNUAL OPERATING COST	46.160	39.732

PERSONNEL DATA (END OF FY 1974)

PERSONNEL	AUTHORIZED STRENGTH	TOTAL PHDS	TOTAL PROF	NON- PROF
MILITARY	588	1	64	524
CIVILIAN	4655	140	1566	3089
TOTAL	5243	141	1630	3613

SPACE AND PROPERTY

ACRES	SPACE (THOUSANDS OF SQUARE FEET)			COST (MILLION \$)		
	LAB	ADMIN	OTHER	TOTAL	REAL PROP	EQUIP
1093594	729.414	320.311	4875.488	5925.213	223.743	85.803

...MISSION

THE MISSION OF THE NAVAL WEAPONS CENTER IS TO BE THE PRINCIPAL NAVY RDT AND E CENTER FOR AIR WARFARE AND MISSILE WEAPON SYSTEMS. THE FUNCTIONS ARE TO ESTABLISH AND MAINTAIN THE PRIMARY IN-HOUSE RESEARCH AND DEVELOPMENT CAPABILITY FOR NAVY AND MARINE CORPS SYSTEMS.

...CURRENT IMPORTANT PROGRAMS

POINT DEFENSE-IN ASMD ROLE
HARM -HIGH SPEED ANTI-RADIATION MISSILE
FAE -FUEL AIR EXPLOSIVE
SPARROW AIM-7F
AIM9L- GUIDED, AIR-LAUNCHED INTERCEPTOR MISSILE

...FUNCTIONS/EQUIPMENT/CAPABILITIES

SUB-SYSTEMS AND TECHNOLOGIES IN SUCH AREAS AS: STRIKE AIRCRAFT/WEAPON SYSTEMS AND CONCEPT DEVELOPMENT& AIR-LAUNCHED WEAPONS AND ASSOCIATED AVIONICS SYSTEMS& TACTICAL MISSILES (ANTI-SHIP CRUISE MISSILES AND POINT DEFENSE MISSILES)& PROPULSION, GUIDANCE AND CONTROL, WARHEAD, FUZE, AND LAUNCHER AND HANDLING EQUIPMENT SUBSYSTEMS FOR THE AFOREMENTIONED SYSTEMS& STRIKE WARFARE COUNTERMEASURES& AND WEATHER MODIFICATION FACILITIES INCLUDE: MICHELSON LABORATORY& ELECTRONIC WARFARE RANGE& SOLID STATE DEVICES LABORATORY& FUZETEST RANGE& PROPULSION RESEARCH LABORATORIES& MICROELECTRONICS FACILITY& EXPLOSIVES RESEARCH AND DEVELOPMENT FACILITY&GROUND AND AIRCRAFT RANGES& EXTERIOR AND TERMINAL BALLISTICS RANGES& NAVAL AIR FACILITY& AIRCRAFT SURVIVABILITY FACILITY SUPERSONIC TEST TRACKS& MICROWAVE ANECHOIC FACILITIES.

INSTALLATION NAVAL WEAPONS EVALUATION FACILITY

ALBUQUERQUE, N.M.

R.H. CALDWELL, CAPT USN, C.O.

F.X. BUSHNER, TECHNICAL DIRECTOR

PROGRAM DATA BY FISCAL YEAR (MILLION \$)

PROGRAM	1974 (ACTUAL)	1975 (ACT + EST)
TOTAL RDT&E	0.884	1.200
TOTAL PROCUREMENT	0.786	0.900
TOTAL G&M	0.989	1.079
TOTAL OTHER	2.646	2.764
TOTAL ANNUAL LAB	5.305	5.943
TOTAL INHOUSE	5.305	5.943
TOTAL INHOUSE RDT&E	0.884	1.200
ANNUAL OPERATING COST	0.543	0.729

PERSONNEL DATA (END OF FY 1974)

PERSONNEL	AUTHORIZED STRENGTH	TOTAL PMDS	TOTAL PROF	NON- PROF
MILITARY	173	0	34	139
CIVILIAN	109	1	41	68
TOTAL	282	1	75	207

SPACE AND PROPERTY

ACRES	SPACE (THOUSANDS OF SQUARE FEET)	COST (MILLION \$)
	LAB ADMIN OTHER TOTAL	REAL PROP EQUIP
7	0.400 53.592 96.196 152.188	9.400 0.450

...MISSION

TEST-EVALUATE-SUPPORT NUC & DESIGNATED NON-NUC WPNS/WPN SYSTEMS. ADVISE CNO IN PROMOTING-MONITORING NUC WPN SAFETY. PLAN-CONDUCT NUC WPN SYSTEM SAFETY STUDIES/RVWS. ASSIST BD OF INSP/SURVEY IN EVAL OF NUC CAPABLE A/C & SHIPS. WRITE A/C CHKLISTS & LDG MAN FOR NUC & DESIGNATED NON-NUC WPNS

...CURRENT IMPORTANT PROGRAMS

CONDUCTING: ASW PHASE 1 STUDY& NAVY LASER PROGRAM AT AFWL& EVAL OF A7E COMPUTER DELIVERY OF NUC WPNS& FAULT TREE ANALYSIS OF CH53E FOR NUC WPNS LOG TRANSPORT& SAFETY ANALYSES OF MK4 RB & ASROC/DD963 CLASS SYSTEM& B77 HARDWARE TESTS FOR AEC. PREPARING: SERVICE REQUIREMENTS FOR NEW NUC WPNS & S3A & F14 A/C CHKLISTS & LDG MANUALS. SUPPORT NEW NUC WPN DEVELOPMENT.

...FUNCTIONS/EQUIPMENT/CAPABILITIES

CONDUCT NAVY NUC WPNS: EVAL-TEST-VULNERABILITY-COMPATABILITY & SAFETY PROGRAMS& SAFETY STUDIES & REVIEWS& FEASIBILITY STUDIES ON FUTURE WPN SYSTEMS& SAFETY SURVEYS & SYMPOSIA. PREPARE NUC WPNS A/C CHKLISTS & LDG MANUALS, MILITARY CHARACTERISTICS, STOCKPILE-TO-TARGET SEQUENCES, SAFETY ANALYSES, MECH-ELECT INTERFACE DWGS, EMERGENCY DESTRUCT/DENIAL PROCEDURES, SAFETY INFO FOR PUBLICATION. PARTICIPATE IN NUC WPN: BD OF INSP & SURVEY TRIALS OF A/C & SHIPS, EFFECTS TESTS, PROTECTIVE EQUIPMENT PROGRAM, DEVELOPMENT OF A/C BOUS & SUSPENSION-RELEASE-AMAC EQUIP, PHASE 1 & 2 STUDIES. PROVIDE: FLIGHT SERVICE TO THE AEC& SUPPORT TO SYSTEM COMMANDS, PROJECT OFFICES, & NLO/JAWPS& A/C & HNDLING EQUIPMENT MAINTENANCE& NUC WPN LIAISON TO AEC-DNA-DOD CONTRACTORS,FLEET & FIELD ACTITITIES. SERVE AS NAVY NUC WPN SAFETY CENTER

INSTALLATION NAVAL WEAPONS LABORATORY

DAHLGREN, VA.

CUR. CAPT R. B. MEEKS JR.

TECH. DIR. MR. JAMES E. COLVARD

PROGRAM	PROGRAM DATA BY FISCAL YEAR (MILLION \$)	
	1974 (ACTUAL)	1975 (ACT + EST)
TOTAL RDT&E	42.129	60.032
TOTAL PROCUREMENT	16.077	11.243
TOTAL O&M	11.791	14.373
TOTAL OTHER	12.580	13.074
TOTAL ANNUAL LAB	82.577	98.722
TOTAL INHOUSE	66.443	74.581
TOTAL INHOUSE RDT&E	33.739	44.381
ANNUAL OPERATING COST	14.447	14.859

PERSONNEL	PERSONNEL DATA (END OF FY 1974)			
	AUTHORIZED STRENGTH	TOTAL PHDS	TOTAL PROF	NON- PROF
MILITARY	89	1	40	49
CIVILIAN	2802	81	113	1639
TOTAL	2891	82	1203	1688

ACRES	SPACE AND PROPERTY			COST (MILLION \$)		
	SPACE (THOUSANDS OF SQUARE FEET)			TOTAL	REAL PROP	EQUIP
	LAB	ADMIN	OTHER			
4321	517.675	57.527	298.679	673.881	39.009	4.040

...MISSION
TO BE THE PRINCIPAL NAVY RESEARCH, DEVELOPMENT AND EVALUATION CENTER FOR
SURFACE WARFARE WEAPONS SYSTEM.
WEAPONS SYSTEMS, PRINCIPALLY FOR SURFACE WARFARE, AND CONDUCTS
PROGRAMS IN OTHER WARFARE AND FIELDS OF TECHNOLOGY.

...CURRENT IMPORTANT PROGRAMS
EXTENDED RANGE GUIDED PROJECTILE AND AMMUNITION PROGRAMS
ELECTROMAGNETIC WARFARE SYSTEM
GUIDANCE DATA FOR POLARIS/POSEIDON/ULMS/FBM SYSTEMS PROGRAMS
ADVANCED GUNS/WEAPONS SYSTEMS
DIGITAL FIRE CONTROL SOFTWARE/HARDWARE PROGRAMS

...FUNCTIONS/EQUIPMENT/CAPABILITIES
LAB CAPABILITIES SUPPORT WORK IN TACTICAL, STRATEGIC, AMPHIBIOUS AND MINE
WARFARE ANALYSIS, SYSTEMS EFFECTIVENESS STUDIES, SATELLITE GEODESY &
DIGITAL FIRE CONTROL SYSTEMS, COMPUTER SCIENCES, RDT&E IN WARFARE AND
SURFACE LAUNCHED WEAPONS & ELECTROMAGNETIC WARFARE, MISSILE GUIDANCE &
WEAPONS CONTROL & MATERIALS AND INSTRUMENTATION RESEARCH & WEAPONS SAFETY,
MODEL FABRICATION & PRODUCT ENGINEERING & ELECTRONIC AND APPLIED PHYSICS &
GEO, INTERIOR & EXTERIOR AND TERMINAL BALLISTICS & WARHEAD AND MUNITIONS
R&D. FACILITIES INCLUDE WARFARE ANALYSIS CENTER AND COMPUTATION FAC &
FIRE CONTROL PROGRAM ASSURANCE FAC & FBM DISC PACK PRODUCTION FAC &
EXPLOSIVE EFFECTS EVALUATION COMPLEX & CHEM/BIO DEFENSE LAB COMPLEX &
SPECIAL EFFECTS TEST FAC & GUNNERY AND MISSILE RANGE COMPLEX & NAVAL GUN
EVAL FAC & EMPASS SUPPORT FAC & ELECTROMAGNETIC VULNERABILITY TEST FAC.

INSTALLATION NAVY MEDICAL NEUROPSYCHIATRIC RESEARCH UNIT SAN DIEGO, CA
C.O. CAPT D.R. TENEYCK SCI. DIR. DR. W. WILKINS

PROGRAM	PROGRAM DATA BY FISCAL YEAR (MILLION \$)	
	1974 (ACTUAL)	1975 (ACT + EST)
TOTAL RDT&E	1.535	1.592
TOTAL PROCUREMENT	0.000	0.000
TOTAL O&M	0.000	0.000
TOTAL OTHER	0.201	0.237
TOTAL ANNUAL LAB	1.736	1.829
TOTAL INHOUSE	1.736	1.829
TOTAL INHOUSE RDT&E	1.535	1.592
ANNUAL OPERATING COST	0.170	0.190

PERSONNEL	PERSONNEL DATA (END OF FY 1974)			
	AUTHORIZED STRENGTH	TOTAL PHDS	TOTAL PROF	NON- PROF
MILITARY	11	7	11	0
CIVILIAN	74	10	30	44
TOTAL	85	17	41	44

ACRES	SPACE AND PROPERTY SPACE (THOUSANDS OF SQUARE FEET)			COST (MILLION \$)		
	LAB	ADMIN	OTHER	TOTAL	REAL PROP	EQUIP
0	11.177	4.500	0.000	15.677	0.000	0.360

...MISSION
TO CONDUCT APPLIED MEDICAL RESEARCH ON PROBLEMS OF HEALTH, SAFETY, AND
WORK EFFICIENCY IN OCCUPATIONS AND ENVIRONMENTS OF NAVAL SERVICE.

...CURRENT IMPORTANT PROGRAMS
SLEEP RHYTHMICITY AND THE RECUPERATIVE EFFECTS OF BRIEF SLEEP.
STRESS TOLERANCE DIFFERENCES AMONG NAVAL PERSONNEL.
PHYSICAL FITNESS STANDARDS PREDICTING EFFECTIVE PERFORMANCE.
LONGITUDINAL HEALTH PATTERNS IN NAVAL PERSONNEL.
EFFECTS OF SHIPBOARD ENVIRONMENT ON HEALTH DURING DEPLOYMENT.

...FUNCTIONS/EQUIPMENT/CAPABILITIES
PSYCHOPHYSIO LAB INCLUDING STUDY OF SLEEP LOSS, ABNORMAL WORK-REST CYCLE
BIOCHEMICAL CORRELATES OF STRESS IN HUMAN OPERATORS
ON-LINE ELECTROPHYSIOLOGICAL RECORDING
MONITOR AUTONOMIC, OTHER BIOFEEDBACK RESPONSES FOR CLINICAL/FIELD POPS

INSTALLATION NAVY PERSONNEL RESEARCH & DEVELOPMENT CENTER SAN DIEGO, CA

C.O. CAPT J.J. CLARKIN

TECH. DIR. DR. J.J. REGAN

PROGRAM	PROGRAM DATA BY FISCAL YEAR (MILLION \$)	
	1974 (ACTUAL)	1975 (ACT + EST)
TOTAL RDT&E	8.535	7.849
TOTAL PROCUREMENT	0.085	0.000
TOTAL O&M	0.813	0.600
TOTAL OTHER	0.998	0.700
TOTAL ANNUAL LAB	10.431	9.149
TOTAL INHOUSE	7.302	6.307
TOTAL INHOUSE RDT&E	5.752	5.197
ANNUAL OPERATING COST	0.900	1.347

PERSONNEL	PERSONNEL DATA (END OF FY 1974)			
	AUTHORIZED STRENGTH	TOTAL PHDS	TOTAL PROF	NON- PROF
MILITARY	26	1	21	5
CIVILIAN	262	61	178	84
TOTAL	288	62	199	89

ACRES	SPACE AND PROPERTY			COST (MILLION \$)		
	SPACE (THOUSANDS OF SQUARE FEET)			TOTAL	REAL PROP	EQUIP
1	LAB 47.300	ADMIN 4.900	OTHER 0.000	52.200	0.302	0.862

...MISSION

PRINCIPAL NAVY RDTE ORGANIZATION FOR ADVANCING AND APPLYING SCIENCES AND TECHNOLOGIES REQUIRED TO SUPPORT OPERATIONAL AND RESEARCH REQUIREMENTS IN MANPOWER, PERSONNEL, EDUCATION, TRAINING. COORDINATING ORGANIZATION FOR ALL RDTE CONDUCTED IN SUPPORT OF THESE REQUIREMENTS.

...CURRENT IMPORTANT PROGRAMS

MANPOWER MANAGEMENT EFFECTIVENESS
EDUCATION AND TRAINING DEVELOPMENT
PERSONNEL TRAINING
PERSONNEL MANAGEMENT
INDEPENDENT RESEARCH AND EXPLORATORY DEVELOPMENT IN PERSONNEL + TRAINING

...FUNCTIONS/EQUIPMENT/CAPABILITIES

GENERAL INFORMATION 18/30 COMPUTER SYSTEM WITH REMOTE JOB ENTRY CAPABILITY TO AN IBM 360/65 LOCATED AT THE NAVAL ELECTRONICS LABORATORY CTR
2 OPTICAL SCANNERS
EXPERIMENTAL PERSONNEL TESTING AND TRAINING FACILITIES
PLATO IV STATIONS
TEKTRONEC GRAPHIC TERMINALS INTERFACING TO AN IBM 360 COMPUTER AT SAN DIEGO STATE UNIVERSITY
PDP-12/30 LABORATORY INSTRUMENT CONTROL SYSTEM COMPUTER

INSTALLATION NAVY TOXICOLOGY UNIT, NMNC

BETHESDA, MD.

C.O. LCDR L.J. JENKINS JR.

PROGRAM	PROGRAM DATA BY FISCAL YEAR (MILLION \$)	
	1974 (ACTUAL)	1975 (ACT + EST)
TOTAL RDT&E	0.412	0.567
TOTAL PROCUREMENT	0.000	0.000
TOTAL O&M	0.000	0.000
TOTAL OTHER	0.167	0.635
TOTAL ANNUAL LAB	0.579	1.202
TOTAL INHOUSE	0.579	1.202
TOTAL INHOUSE RDT&E	0.412	0.567
ANNUAL OPERATING COST	0.000	0.000

PERSONNEL	PERSONNEL DATA (END OF FY 1974)			
	AUTHORIZED STRENGTH	TOTAL PHDS	TOTAL PROF	NON- PROF
MILITARY	16	2	6	10
CIVILIAN	7	0	2	5
TOTAL	23	2	8	15

ACRES	SPACE AND PROPERTY SPACE (THOUSANDS OF SQUARE FEET)			COST (MILLION \$)		
	LAB	ADMIN	OTHER	TOTAL	REAL PROP	EQUIP
0	2.260	0.140	2.037	4.437	0.187	0.540

...MISSION

CONDUCT RDT&E IN OCCUPATIONAL & ENVIRONMENTAL TOXICOLOGY ASSOCIATED WITH POTENTIALLY HAZARDOUS MATERIALS IN DEVELOPMENTAL & OPERATIONAL WEAPONS SYSTEMS & SHIPBOARD, FIELD, & INDUSTRIAL OPERATIONS & PROCESSES, & ENVIRONMENTAL CONTAMINATION FROM OR AFFECT ON MILITARY OPERATIONS

...CURRENT IMPORTANT PROGRAMS

CHRONIC INGESTION TOXICOLOGY OF RDX
BEHAVIORAL TOXICOLOGY OF NAVY CHEMICALS
INHALATION TOXICOLOGY OF RAMJET FUELS AND SMOKE ABATERS
HYPERBARIC TOXICOLOGY OF BREATHING GAS MIXTURES AND CONTAMINANTS
ACUTE TOXICOLOGY OF ANTIFOULING PAINTS AND FIRE ENVIRONMENTS

...FUNCTIONS/EQUIPMENT/CAPABILITIES

FACILITIES AND EQUIPMENT CAPABILITY CONSIST OF 6-2 CUBIC METER EXPOSURE CHAMBERS, 150 & 1000 PSIG CHAMBERS, WELL EQUIPPED CHEMISTRY, BIOCHEMISTRY, HEMATOLOGY, PATHOLOGY, PHARMACOLOGY, & INSTRUMENTATION LABORATORIES. OVERALL CAPABILITY IN ENVIRONMENTAL TOXICOLOGY OF INHALED AND INGESTED CONTAMINANTS OF NAVAL ORIGIN OR AFFECTING MILITARY OPERATIONS AND DEVELOPMENT OF SAFE EXPOSURE CRITERIA.

INSTALLATION PACIFIC MISSILE RANGE

POINT MUGU, CA.

CDR. RADM J.M. THOMAS

TECH. DIR. MR. W.L. MILLER

PROGRAM	PROGRAM DATA BY FISCAL YEAR (MILLION \$)	
	1974 (ACTUAL)	1975 (ACT + EST)
TOTAL RDT&E	68.461	75.699
TOTAL PROCUREMENT	2.763	0.075
TOTAL U&M	7.098	4.802
TOTAL OTHER	15.282	21.570
TOTAL ANNUAL LAB	93.604	102.146
TOTAL INHOUSE	65.465	71.050
TOTAL INHOUSE RDT&E	47.944	47.703
ANNUAL OPERATING COST	25.086	27.306

PERSONNEL	PERSONNEL DATA (END OF FY 1974)			
	AUTHORIZED STRENGTH	TOTAL PHDS	TOTAL PROF	NON- PROF
MILITARY	653	1	73	580
CIVILIAN	2898	5	530	2368
TOTAL	3551	6	603	2948

ACRES	SPACE AND PROPERTY			COST (MILLION \$)		
	SPACE (THOUSANDS OF SQUARE FEET)			TOTAL	REAL PROP	EQUIP
	LAB	ADMIN	OTHER			
29377	89.163	275.883	1420.138	1785.184	149.300	174.600

...MISSION

PROVIDE SUPPORT FOR DOD AND OTHER DESIGNATED GOVT AGENCIES FOR LAUNCHING TRACKING & COLLECTING DATA IN GUIDED MISSILE, SATELLITE, & SPACE VEHICLE RESEARCH, DEVELOPMENT, EVALUATION & FLEET TRAINING.

...CURRENT IMPORTANT PROGRAMS

RANGE SUPPORT OF 289 NATL RNG PROGRAMS-F14, PHOENIX, HARPOON, AEGIS, AND CLOSE-IN-WEAPON SYSTEM. DEV OF EXPANDED UNDERWATER TEST & EVAL RANGE AT KAUAI IS, H.I. FOR ASW WPNS TESTS. DEV OF EXTENDED AREA TRACKING SYS TO EXPAND FLT TRNG SUPPORT CAP SU CALIF AREA. PMR COMPUTER CENTRALIZATION AND MODERNIZATION PROGRAM.

...FUNCTIONS/EQUIPMENT/CAPABILITIES

SCIENTIFIC DATA REDUCTION & COMPUTING FACILITY, 4 IBM 7094S, 1 IBM 360/40, 1 IBM 360/30, 1 SD 4460. REAL TIME COMPUTER CENTER, UNIVAC 1230, CP642B, CP642, UNIVAC 1004111, CP-789, RE-281 DISK, UNIVAC FH-880 DRUM. RANGE SURVEILLANCE FACILITY, NTDS, AKSR-1BE, 3 APS-20 RADARS, AN/SPS-8, ASR RADAR. FIXED, MOBILE, SHIPBOARD, AND AIRBORNE TELEMETRY RECEIVE/RECORD SYSTEMS IN THE P, S, AND L BANDS. FIXED, MOBILE AND SHIPBOARD TELEMETRY REAL TIME SEPARATION AND DISPLAY SYSTEMS. RADAR TRACKING FACILITY, METRIC, AN/FPS-16 AN/MPS-25, AN-FPL-10. FREQUENCY INTERFERENCE CONTROL CENTER, ENGINEERING LABORATORY, THREE FIXED AND THREE MOBILE MONITORING STATIONS. COMMAND CONTROL DESTRUCT FACILITIES. METRO & OCEANO SVCS, NAVIG AIDS, LOGISTICS & BASE SUPPORT, MAJOR OP CONTROL SITES AT POINT MUGU, BARKING SANDS, KAUAI. UNDERWATER RANGE AT KAUAI IS 5X10MM.37 HYDROPHONE ARRAY AT 400-1000 FATH

INSTALLATION U.S.NAVAL MEDICAL RESEARCH UNIT NO.5

ADDIS ABABA ETHIOPIA

C.O. CAPT GRAIG K WALLACE

TECH. DIR.: NONE

PROGRAM	PROGRAM DATA BY FISCAL YEAR (MILLION \$)	
	1974 (ACTUAL)	1975 (ACT + EST)
TOTAL RDT&E	0.000	0.444
TOTAL PROCUREMENT	0.000	0.050
TOTAL O&M	0.000	0.000
TOTAL OTHER	0.000	0.230
TOTAL ANNUAL LAB	0.000	0.724
TOTAL INHOUSE	0.000	0.724
TOTAL INHOUSE RDT&E	0.000	0.444
ANNUAL OPERATING CUST	0.000	0.098

PERSONNEL	PERSONNEL DATA (END OF FY 1974)		TOTAL PROF	NON- PROF
	AUTHORIZED STRENGTH	TOTAL PHDS		
MILITARY	21	5	7	14
CIVILIAN	56	3	3	53
TOTAL	77	8	10	67

ACRES	SPACE AND PROPERTY SPACE (THOUSANDS OF SQUARE FEET)			TOTAL	COST (MILLION \$)	
	LAB	ADMIN	OTHER		REAL PROP	EQUIP
1	4.274	3.016	0.632	8.122	0.000	0.371

...MISSION

CONDUCT RESEARCH IN BIOMEDICAL SCIENCES, PROVIDE ESSENTIAL INFORMATION ON DISEASES AND MEDICAL PROBLEMS OF MILITARY SIGNIFICANCE, RECOMMEND CONTROL MEASURES FOR COMMUNICABLE DISEASES ENDEMIC OR EPIDEMIC IN AFRICA AND, AS REQUIRED, PROVIDE TRAINING IN RESEARCH TECHNIQUES.

...CURRENT IMPORTANT PROGRAMS

PATHOPHYSIOLOGY AND THERAPY OF LOUSE-BORNE RELAPSING FEVER.
EARLY DIAGNOSIS, THERAPY AND PATHOPHYSIOLOGY OF TYPHUS FEVER.
PRE-IMMUNIZATION PROFILE OF POPULATION IN PREP. FOR MALARIA VACCINE TRIAL
PREVALENCE AND CONTROL OF INSECT VECTORS IN ETHIOPIA.
EPIDEMIOLOGY OF ARTHROPOD-BORNE VIRUSES OF MILITARY IMPORTANCE IN ETHIOPIA

...FUNCTIONS/EQUIPMENT/CAPABILITIES

CONDUCTS STUDIES ON ETIOLOGY, DIAGNOSIS CONTROL AND TREATMENT OF INFECTIOUS TROPICAL DISEASES. MODERN LABORATORY SPACE IS ADEQUATE FOR SCIENTIFIC DISCIPLINES OF CLINICAL INVESTIGATION, VIROLOGY BIOCHEMISTRY, MEDICAL ECOLOGY ENTOMOLOGY, PARASITOLOGY AND RICKETTSIOLOGY. FACILITIES AND EQUIPMENT TISSUE CULTURE LINES, REFRIGERATION UNITS, SPECTROPHOTOMETERS AND CENTRIFUGES. OPERATES A 20 BED CLINICAL RESEARCH UNIT AT NEARBY ST. PAULS HOSPITAL ADDIS ABABA. FIELD STATION IS MAINTAINED IN GAMBELA.

INSTALLATION AEROPROPULSION LABORATORY

WPAFB, OH.

C.O. COL. DANIEL W. CHEATHAM, JR. TECH. DIR. MR. M.P. DUNHAM

PROGRAM	PROGRAM DATA BY FISCAL YEAR (MILLION \$)	
	1974 (ACTUAL)	1975 (ACT + EST)
TOTAL RDT&E	53.529	59.726
TOTAL PROCUREMENT	0.000	0.000
TOTAL O&M	0.000	0.000
TOTAL OTHER	0.872	4.020
TOTAL ANNUAL LAB	54.401	63.746
TOTAL INHOUSE	11.038	11.817
TOTAL INHOUSE RDT&E	10.166	10.897
ANNUAL OPERATING COST	3.179	3.676

PERSONNEL	PERSONNEL DATA (END OF FY 1974)			
	AUTHORIZED STRENGTH	TOTAL PHDS	TOTAL PROF	NON- PROF
MILITARY	49	13	42	7
CIVILIAN	355	13	184	171
TOTAL	404	26	226	178

ACRES	SPACE AND PROPERTY SPACE (THOUSANDS OF SQUARE FEET)			COST (MILLION \$)		
	LAB	ADMIN	OTHER	TOTAL	REAL PROP	EQUIP
40	217.597	39.010	398.388	654.995	13.664	15.514

...MISSION

PLAN, FORMULATE AND EXECUTE EXPLORATORY, ADVANCED AND PROTOTYPE DEVELOPMENT PROGRAMS IN AIR-BREATHING PROPULSION, AEROSPACE POWER GENERATION AND DISTRIBUTION, AND AIRCRAFT FUELS, FUEL AND LUBRICATION SYSTEMS, AND FIRE PROTECTION.

...CURRENT IMPORTANT PROGRAMS

ADVANCED TURBOFAN ENGINE TECHNOLOGY DEMONSTRATORS
PROGRAM TO IMPROVE THE AVAILABILITY OF AVIATION TURBINE FUELS
VARIABLE CYCLE ENGINES FOR MULTI-MISSION AIRCRAFT
INTEGRAL ROCKET/RAMJET, POWER SYSTEM AND HIGH DENSITY FUEL FOR ASALM
AIRBORNE HIGH POWER FOR LASER SYSTEMS

...FUNCTIONS/EQUIPMENT/CAPABILITIES

AFAPLS MAJOR FACILITIES/EQUIPMENT CONSIST OF--TURBINE ENGINE CONTROL TEST FACILITY, BATTERY DEVELOPMENT & TEST FAC, MHD GENERATOR, LUBRICANT GEAR RIGS, SEAL TEST RIGS, BEARING RIGS, FUEL HANDLING FAC, FIRE DETECTION LAB, FIRE RESEARCH LAB, COKER LAB, FUEL ANALYSIS LAB, COMBUSTION FAC, ROTOR TEST FAC, 5 SEA LEVEL TEST STANDS TO 20,000 LB THRUST, 2 TURBINE ENGINE ALTITUDE CELLS TO 3,000 LB THRUST-MACH 1.5-50,000 FT, 3 PROPELLER WHIRL RIGS TO 10,000 HP, GYROSCOPIC TEST CHAMBER, RAMJET COMPONENTS LAB, ELECTRO AERODYNAMIC LASER, HIGH TEMPERATURE TURBINE COMPONENT TEST FAC, SAND EROSION RIG, CENTRAL DATA ACQUISITION SYSTEM, AIRCRAFT SOLID STATE ELECTRICAL POWER FAC WITH THREE 350 HP DRIVE SOURCES AND TWO AIRCRAFT ELECTRICAL SYSTEM SIMULATORS, VACUUM CHAMBERS, SOLAR SIMULATORS.

INSTALLATION AEROSPACE RESEARCH LABORATORIES

WPAFB, OH

C.O. COL. R.W. MILLING

CH. SCI. DR. HANS J.P. VON OHAIN

PROGRAM DATA BY FISCAL YEAR (MILLION \$)

PROGRAM	1974 (ACTUAL)	1975 (ACT + EST)
TOTAL RDT&E	10.719	11.707
TOTAL PROCUREMENT	0.000	0.000
TOTAL O&M	0.000	0.000
TOTAL OTHER	1.186	1.216
TOTAL ANNUAL LAB	11.905	12.923
TOTAL INHOUSE	7.803	7.721
TOTAL INHOUSE RDT&E	6.617	6.505
ANNUAL OPERATING COST	1.309	1.343

PERSONNEL DATA (END OF FY 1974)

PERSONNEL	AUTHORIZED STRENGTH	TOTAL PHDS	TOTAL PROF	NON- PROF
MILITARY	69	20	51	18
CIVILIAN	174	47	73	101
TOTAL	243	67	124	119

SPACE AND PROPERTY

ACRES	SPACE (THOUSANDS OF SQUARE FEET)	COST (MILLION \$)
	LAB ADMIN OTHER	TOTAL REAL PROP EQUIP
34	69.335 39.679 34.217	143.231 13.510 11.869

...MISSION

SERVES AS MULTIDISCIPLINARY TECH. RESOURCE IN PHYS. AND ENGR. SCIENCES. PLANS AND CONDUCTS RESEARCH AIMED AT TECHNOLOGICAL INNOVATION. CONSULTS AND ASSISTS IN RESOLUTION OF TECHNOLOGICAL PROBLEMS AND FUNCTIONS AS A RESPONSIVE INSTRUMENT OF SCIENTIFIC EXPERTISE AND AWARENESS WITHIN AF.

...CURRENT IMPORTANT PROGRAMS

INVEST OF EXCIT, IONIZ, ENERG TRNSF PROC PERT LASERS AND PLASMAS. INTEG RSCH ON OPT, MAG-OPT, ELEC-OPT, ELECTRON PROP OF GALLIUM ARSENIDE. STUDIES OF GAS-SOLID INTERFACE REACTS AND INT PROCESS IN SOLID MATERIALS. STUD IN MATH SCIENCES THAT RELATE TO RELIABIL, MAINTAINABIL, COST REDUCT SOLID MECHANICS OF MATERIALS.

...FUNCTIONS/EQUIPMENT/CAPABILITIES

ARL CONDUCTS AND SPONSORS RESEARCH IN: STRUCTURE AND PROPERTIES OF SOLIDS& CHEMICAL PROPERTIES AND PROCESSES& FLUID MECHANICS AND FLUID DYNAMIC FACILITIES& APPLIED MATH& PLASMA AND SOLID STATE PHYSICS& AND ENERGY CONVERSION. EXPERIMENTAL AND SUPPORT FACILIT./CAPABILITIES: GLASS SHOP, MACHINE SHOP AND 15,000 VOL. TECHNICAL LIBRARY& M3-6 HI-RE AND 4 HYPERSONIC BLOW-DOWN TUNNELS& FLOWING GAS SUPERSONIC COMBUSTION RIG& SUPERSONIC COMPRESSOR& 1 MEV VAN DE GRAAFF AND ION-IMPLANTATION ACCELERATORS& EPR, NMR AND TANDEN ION-MOLECULE MASS SPECTROMETERS& FLOWING GAS LASER& TRANSMISSION AND SCANNING ELECTRON MICROSCOPE AND MICROPROBE& AND ULTRA-HI QUALITY CRYSTAL GROWTH CAPABILITY.

INSTALLATION ARMAMENT DEVELOPMENT AND TEST CENTER

EGLIN AFB, FL.

CDR MG H. B. KUCHEMAN JR.

CHIEF SCI DR. BERNARD A. KULP

PROGRAM	PROGRAM DATA BY FISCAL YEAR (MILLION \$)	
	1974 (ACTUAL)	1975 (ACT + EST)
TOTAL RDT&E	128.667	134.134
TOTAL PROCUREMENT	238.685	184.917
TOTAL O&M	3.388	3.721
TOTAL OTHER	63.342	64.940
TOTAL ANNUAL LAB	434.082	387.712
TOTAL INHOUSE	118.133	124.761
TOTAL INHOUSE RDT&E	63.602	67.268
ANNUAL OPERATING COST	23.000	24.000

PERSONNEL	PERSONNEL DATA (END OF FY 1974)			
	AUTHORIZED STRENGTH	TOTAL PHDS	TOTAL PROF	NON- PROF
MILITARY	4190	92	1146	3044
CIVILIAN	3240	25	756	2484
TOTAL	7430	117	1902	5528

ACRES	SPACE AND PROPERTY			COST (MILLION \$)		
	SPACE (THOUSANDS OF SQUARE FEET)			TOTAL	REAL PROP	EQUIP
	LAB	ADMIN	OTHER			
464643	352.972	802.474	9311.345	10466.791	222.073	233.023

...MISSION
DEVELOP AND MAINTAIN MUNITIONS TECHNOLOGY BASE, CONDUCT EXPL, ADV, AND
ENG DEV OF GUIDED AND UNGUIDED NONNUCLEAR WEAPONS INCLUDING RELATED
AREAS OF SUSPENSION AND RELEASE (INCLUDING NUCLEAR), EXT BALLISTICS,
GROUND HANDLING, TERMINAL EFFECTS, AND AERIAL TARGETS.

...CURRENT IMPORTANT PROGRAMS
ALL WEATHER GUIDANCE
GAU-8 GUN SYSTEM
HARD STRUCTURE MUNITIONS
HIGH ALTITUDE SUPERSONIC TARGET
AIRFIELD ATTACK MUNITION

...FUNCTIONS/EQUIPMENT/CAPABILITIES
A CAPABILITY OF SCIENTIFIC/ENGINEERING PERSONNEL AND LABORATORIES FOR
EXPL ADV & ENGR DEV IN THE AREA OF NONNUCLEAR MUNITIONS. ARMAMENT SYS
TEST ENVIRONMENT COVERING 728 SQ MI WITH LARGE ADJACENT WATER AREA.
HAS 28 TEST AREAS WITH INSTRUMENTED FACILITIES INCLUDING PRECISION
TRACKING RADARS AND PHOTO-OPTICS. IS USED FOR MUNITIONS TESTS AND
ELECTROMAGNETIC TEST ENVIRONMENT, IS AN INSTRUMENTED COMPLEX OF THREAT
SYSTEMS FOR EVALUATION OF EMW DEVICES AND TECHNIQUES. WEAPONS
EFFECTIVENESS AND SYS TEST ENVIRONMENT PROVIDES A REALISTIC ENVIRONMENT
FOR TESTING A WPNS SYS AGAINST AN ACTIVE DEFENSE SYS. A CLIMATIC LAB
CAPABLE OF TESTING COMPLETE WPNS SYS. A PROBE LAUNCH FACILITY FOR
LAUNCHING SCIENTIFIC PROBES. A COMPUTER SCIENCES LAB. A PHYSICAL
SCIENCES LAB. A PHOTO LAB. AN INSTRUMENTATION/DESIGN/FABR FACILITY.

INSTALLATION ARNOLD ENGINEERING DEVELOPMENT CENTER

TULLAHOMA, TN.

C.O. COL. WEBSTER C. ENGLISH, JR. CH. SCI. MR. D.R. EASTMAN

PROGRAM	PROGRAM DATA BY FISCAL YEAR (MILLION \$)	
	1974 (ACTUAL)	1975 (ACT + EST)
TOTAL RD&E	66.342	79.410
TOTAL PROCUREMENT	2.121	0.000
TOTAL O&M	0.087	0.021
TOTAL OTHER	8.441	5.533
TOTAL ANNUAL LAB	76.991	84.964
TOTAL INHOUSE	60.774	81.326
TOTAL INHOUSE RD&E	59.148	79.410
ANNUAL OPERATING COST	0.000	0.000

PERSONNEL	PERSONNEL DATA (END OF FY 1974)				NON- PROF
	AUTHORIZED STRENGTH	TOTAL PHDS	TOTAL PROF		
MILITARY	88	5	63		25
CIVILIAN	151	3	53		98
TOTAL	239	8	116		123

ACRES	SPACE AND PROPERTY SPACE (THOUSANDS OF SQUARE FEET)			COST (MILLION \$)		
	LAB	ADMIN	OTHER	TOTAL	REAL PROP	EQUIP
40018	1149.177	201.411	532.216	1882.804	365.762	61.933

...MISSION

PRIMARY MISSION IS TO SUPPORT THE TIMELY ACQUISITION OF SUPERIOR AEROSPACE SYSTEMS BY CONDUCTING RESEARCH AND DEVELOPMENT TESTS IN GROUND ENVIRONMENTAL TEST FACILITIES WHICH SIMULATE THE ACTUAL CONDITIONS THAT THE HARDWARE WILL EXPERIENCE IN PERFORMING ITS MISSION.

...CURRENT IMPORTANT PROGRAMS

CONTINUED B-1 ENGINE DEVELOPMENT TESTS AND AERODYNAMIC PERFORMANCE TESTS
CONTINUED F-15 STORE SEPARATION TESTS AND ENGINE COMPONENT IMPROVEMENT
CONTINUED DEVELOPMENT TESTS ON A-10, LIGHTWEIGHT FIGHTER, CRUISE MISSILES
CONTINUED EXTENSIVE MINUTEMAN PSRE, PQA, AND AGING AND SURVEILLANCE TESTS
OTHER SIGNIF TESTS TRIDENT, ABRES, SPACE SHUTTLE, BIRD IMPACT, SENSOR PERF.

...FUNCTIONS/EQUIPMENT/CAPABILITIES

AEDC IS COMPRISED OF ABOUT 40 TEST UNITS HAVING A CAPITAL VALUE OF OVER \$400 MILLION. INCLUDED ARE WIND TUNNELS WITH TEST SECTIONS TO 16 FT SQ AND SPEEDS FROM SUBSONIC TO MACH22, TURBINE ENGINE TEST CELLS WHICH PROVIDE TRUE SIMULATION TO MACH 3, ROCKET TEST CELLS, THE LARGEST RATED AT .5 MILLION LBS THRUST AT ALTITUDE, SPACE SIMULATION CHAMBERS TO 42 FT DIA AND 82 FT HIGH, HYPERBALLISTIC RANGES, DUST AND SNOW EROSION FACILITY, BIRD IMPACT FACILITY, SEVERAL CAPTIVE TRAJECTORY SYSTEMS. THESE TEST FACILITIES HAVE SUPPORTED THE DEVELOPMENT AND QUALIFICATION OF EVERY MAJOR AERONAUTICAL, MISSILE AND SPACE SYSTEM DEVELOPMENT SINCE 1954. BY PLANNING FOR AN ADEQUATE GROUND ENVIRONMENTAL TEST PROGRAM IN THESE FACILITIES, DEVELOPMENT PROGRAM MANAGERS CAN ASSURE THAT SYSTEM DESIGN DEFICIENCIES ARE FOUND EARLY, PREVENTING COST AND SCHEDULE OVERRUNS.

INSTALLATION AVIONICS LABORATORY

WPAFB, OH.

C.O. COL. J.R. KRAUSE

LAB. DIR. BERNARD LIST

PROGRAM DATA BY FISCAL YEAR (MILLION \$)

PROGRAM	1974 (ACTUAL)	1975 (ACT + EST)
TOTAL RDT&E	99.703	109.285
TOTAL PROCUREMENT	0.000	0.000
TOTAL O&M	0.000	0.000
TOTAL OTHER	3.180	3.558
TOTAL ANNUAL LAB	102.883	112.843
TOTAL INHOUSE	17.411	17.666
TOTAL INHOUSE RDT&E	14.231	14.108
ANNUAL OPERATING COST	4.539	5.146

PERSONNEL DATA (END OF FY 1974)

PERSONNEL	AUTHORIZED STRENGTH	TOTAL PHDS	TOTAL PROF	NON- PROF
MILITARY	86	13	131	45
CIVILIAN	865	40	374	491
TOTAL	951	53	505	536

SPACE AND PROPERTY

ACRES	SPACE (THOUSANDS OF SQUARE FEET)	COST (MILLION \$)
	LAB ADMIN OTHER	TOTAL REAL PROP EQUIP
264	214.448 12.152 408.699	635.299 21.841 42.943

...MISSION

MAINTAINS A BASE OF AVIONICS TECH&DEVELOPS&DEMONSTRATES COST-EFFECTIVE AVIONIC SYSTEMS TO IMPROVE OPERATIONAL CAPABILITIES IN NAV,COMM,EW,RECON ,SURVEILLANCE&WPN DEL.&PROVIDE SYS SUPPORT TO AFSC&ALL USAF OPERATIONAL UNITS&MODIFICATION OF AVIONICS IN THE INVENTORY.

...CURRENT IMPORTANT PROGRAMS

DIGITAL AVIONICS INTEGRATED SYSTEMS FOR AEROSPACE APPLICATIONS
GIMBALD ELECTROSTATIC GYRO FOR AIRCRAFT NAVIGATION (GEANS)
ELECTRONICALLY AGILE RADAR
LASER COMMUNICATIONS FOR SPACE APPLICATIONS
RADAR&GUIDANCE TECHNIQUES FOR DETECTION,TRACKING,ADVRS-WEATH&WEAP DELVRY

...FUNCTIONS/EQUIPMENT/CAPABILITIES

CONDUCTS IN-HSE R&D TO MAINTAIN A HIGH DEGREE OF TECHNICAL COMPETENCE.
ACTS AS AFSC FOCAL POINT FOR INFO IN ASSIGNED TECHNICAL AREAS.EXECUTES ASSIGNED PROJECTS FOR AND WORKS CLOSELY WITH ARMY,NAVY,NASA,ARPA,&OTHER GOVT AGENCIES.SUPPORTS AFSC PROGRAMS AND INSURES THE RAPID APPLICATION OF RESEARCH&TECHNOLOGY TO ADVANCED SYSTEMS.PROVIDES TECHNICAL SUPPORT TO CURRENT&FUTURE SYSTEMS PROGRAMS&OPERATIONAL PROJECTS IN AREAS OF ASSIGNED MISSION.PERFORM CONCEPTUAL PLANNING,ANALYSIS&STUDIES MAJOR FAC/ EQUIP ARE-ELECTRO OPTICAL SURVEILLANCE FAC WITH 48 IN APERTURE-DYNAMIC ANALYZER FOR ADVANCED RECON SYSTEMS-LASER RESEARCH FAC-SOLID STATE INTEGRATED CIRCUITS LAB ELECTROMAGNETIC TECHS COUNTERMEASURES LAB INCL ECM OCM SIMULATION FAC.COMMUNICATIONS SYSTEMS EVALUATION LAB.

INSTALLATION CAMBRIDGE RESEARCH LABORATORY

L.G. HANSCOM FLD, MS.

C.O. COL. W.K. MORAN JR.

CH. SCI. DR. J.N. HOWARD

PROGRAM	PROGRAM DATA BY FISCAL YEAR (MILLION \$)	
	1974	1975
	(ACTUAL)	(ACT + EST)
TOTAL RDT&E	55.077	56.232
TOTAL PROCUREMENT	0.902	0.000
TOTAL O&M	0.001	0.001
TOTAL OTHER	2.046	2.046
TOTAL ANNUAL LAB	58.026	58.279
TOTAL INHOUSE	35.342	34.706
TOTAL INHOUSE RDT&E	33.295	32.659
ANNUAL OPERATING COST	7.454	6.649

PERSONNEL	PERSONNEL DATA (END OF FY 1974)			
	AUTHORIZED STRENGTH	TOTAL PHDS	TOTAL PROF	NON-PROF
MILITARY	155	17	58	97
CIVILIAN	904	165	575	329
TOTAL	1059	182	633	426

ACRES	SPACE AND PROPERTY			COST (MILLION \$)		
	SPACE (THOUSANDS OF SQUARE FEET)			TOTAL	REAL PROP	EQUIP
	LAB	ADMIN	OTHER			
9662	578.747	18.146	117.078	713.971	20.820	62.996

...MISSION

CONDUCTS AND SUPPORTS AF RELEVANT RESEARCH AND EXPLORATORY DEVELOPMENT IN ENVIRONMENTAL, ENGINEERING, AND PHYSICAL SCIENCES WITH MAJOR EMPHASIS ON GEOPHYSICS AND ELECTRONICS. ALSO CONDUCTS AND SUPPORTS SPECIFICALLY ASSIGNED ADVANCED DEVELOPMENT EFFORTS.

...CURRENT IMPORTANT PROGRAMS

IONOSPHERIC MAPPING AND FORECASTING FOR COMMUNICATIONS
SHORT RANGE TERMINAL FORECASTING
RADIATION HARDENING OF DEVICES AND INTEGRATED CIRCUITS
OPTICAL, INFRARED AND UV BACKGROUND MEASUREMENTS
ENVIRONMENTAL DEFINITION FOR REENTRY PROGRAMS

...FUNCTIONS/EQUIPMENT/CAPABILITIES

CONDUCTS RESEARCH AND TECHNICAL DEVELOPMENT IN TERRESTRIAL, AEROSPACE, OPTICAL AND SOLAR PHYSICS, IN EM PROPAGATION, AND IN ELECTRONICS, AND SOLID STATE PHYSICS RELATING TO AIR FORCE NEEDS. EQUIPMENT AND FACILITIES INCLUDE RADIO AND OPTICAL TELESCOPES FOR SOLAR RESEARCH: S, X, AND L BAND RADARS AND TWO C-130 AIRCRAFT FOR METEOROLOGICAL RESEARCH: ROCKET AND BALLOON LAUNCH FACILITIES, TWO KC-135 AND ONE C-130 AIRCRAFT FOR OPTICAL, UPPER ATMOSPHERIC AND NEAR SPACE STUDIES: FACILITIES FOR GROWTH OF ELECTRONIC MATERIALS, A VAN DE GRAFF ACCELERATOR, COBALT 60 SOURCE, 12 MEV LINAC, 29 FOOT MILLIMETER WAVE ANTENNA FOR ELECTRONICS RELATED PROGRAMS, AND A CDC 6600 COMPUTER SYSTEM.

INSTALLATION FLIGHT DYNAMICS LABORATORY

WPAFB, OH.

C.O. COL. BRIEN D. WARD

CH. SCI. DR. D. ZONARS

PROGRAM	PROGRAM DATA BY FISCAL YEAR (MILLION \$)	
	1974	1975
	(ACTUAL)	(ACT + EST)
TOTAL RDT&E	56.104	59.754
TOTAL PROCUREMENT	0.000	0.000
TOTAL O&M	0.517	0.000
TOTAL OTHER	2.941	5.180
TOTAL ANNUAL LAB	59.562	64.934
TOTAL INHOUSE	33.196	30.831
TOTAL INHOUSE RDT&E	30.255	27.631
ANNUAL OPERATING COST	4.746	4.983

PERSONNEL	PERSONNEL DATA (END OF FY 1974)				NON-PROF
	AUTHORIZED STRENGTH	TOTAL PHDS	TOTAL PROF		
MILITARY	209	28	144		65
CIVILIAN	905	34	515		390
TOTAL	1114	62	659		455

ACRES	SPACE AND PROPERTY				COST (MILLION \$)	
	SPACE (THOUSANDS OF SQUARE FEET)				TOTAL REAL PROP	EQUIP
	LAB	ADMIN	OTHER	TOTAL		
90	541.130	60.600	184.419	786.149	22.559	58.360

...MISSION

PLAN AND EXECUTE USAF RESEARCH EXPLORATORY AND ADVANCED DEV PROGRAMS FOR AEROSPACE FLT VEHICLE STRUCTURES FLT MECHANICS FLT CONTROL VEHICLE DYN AND VEHICLE EQUIP. LEAD AFSC LAB FOR EXPER FLT VEHICLES. AFSC FOCAL PT FOR NONNUCLEAR SURVIVABILITY PROG. EVALUATE CONTRACTOR I R AND D PROG.

...CURRENT IMPORTANT PROGRAMS

ADVANCED TECHNOLOGY WING
CONTROL CONFIGURED VEHICLE
X-24B LIFTING BODY VEHICLE
ADVANCED FIGHTER TECHNOLOGY INTEGRATOR
ADVANCED METALLIC AND COMPOSITE STRUCTURES

...FUNCTIONS/EQUIPMENT/CAPABILITIES

50MW TEST FACILITY IS A 30 MIN CONTINUOUS FLOW ARC HEATED HYPERSONIC W/T HAVING A RE-ENTRY NOSE TIP (RENT) TEST LEG AND HYPERSONIC TEST LEG (HTL) STRUCTURES TEST FACILITY PERMITS STRUCTURAL TESTING OF FULL SCALE VEHICLES AND COMPONENTS WITH PROGRAM CONTROLLED SIMULATION OF FORCE AND THERMAL FLT ENVIRONMENTS. LANDING GEAR TEST FACILITY DYNAMICALLY SIMULATES LANDING GEAR COMPONENT PERFORMANCE CHARACTERISTICS THRU PROGRAMMED PARAMETERS OF LOADS VELOCITIES TEMP ETC. ENGINEERING FLT SIMULATION FAC CONTAINS FLT SIMULATORS AND COMPUTING EQUIP TO DEVELOP CONTROL DISPLAY CONCEPTS AND EVALUATE MANS PERFORMANCE ON SPECIFIC DISPLAY AND CONTROL SYSTEMS. SONIC FATIGUE FACILITY PROVIDES HIGH INTENSITY SOUND ENVIRONMENTS FOR FULL SIZE VEHICLES. BALLISTIC RANGES TEST VULNERABILITY FULL SIZE STRUCTURES UNDER FUEL STRUCTURAL AND AERODYNAMIC ENVIRONMENTS.

INSTALLATION FLIGHT TEST CENTER

EDWARDS AFB, CA.

CDR BG R.A. RUSHWORTH TECH DIR F.N. STOLIKER

PROGRAM	PROGRAM DATA BY FISCAL YEAR (MILLION \$)	
	1974 (ACTUAL)	1975 (ACT + EST)
TOTAL RDT&E	49.691	57.248
TOTAL PROCUREMENT	0.029	0.006
TOTAL O&M	1.229	1.159
TOTAL OTHER	33.473	33.792
TOTAL ANNUAL LAB	84.622	92.205
TOTAL INHOUSE	73.131	78.838
TOTAL INHOUSE RDT&E	39.268	44.180
ANNUAL OPERATING COST	17.343	18.198

PERSONNEL	PERSONNEL DATA (END OF FY 1974)			
	AUTHORIZED STRENGTH	TOTAL PHDS	TOTAL PROF	NON- PROF
MILITARY	3349	7	315	3034
CIVILIAN	2066	9	288	1778
TOTAL	5415	16	603	4812

ACRES	SPACE AND PROPERTY			COST (MILLION \$)		
	SPACE (THOUSANDS OF SQUARE FEET)			TOTAL	REAL PROP	EQUIP
	LAB	ADMIN	OTHER			
246323	457.124	297.847	6512.039	7267.010	182.180	93.895

...MISSION

PLANS, CONDUCTS/SUPPORTS AND REPORTS ON TESTS OF MANNED/UNMANNED AEROSPACE VEH. CONDUCTS FLIGHT EVAL/RECOV OF AEROSPACE RSCH VEH AND DEVEL TESTING OF AERODYNAMIC DECELERATORS. OPR USAF TEST PILOT SCH. SUPPORTS USAF, DOD, GOV, FOREIGN AND CONTRACTOR TEST AND EVAL PROGRAMS.

...CURRENT IMPORTANT PROGRAMS

F-15A DT AND E / IOT AND E
A-10 DT AND E
F-5E/F DT AND E
LIGHTWEIGHT FIGHTER EVALUATION
AWACS DT AND E

...FUNCTIONS/EQUIPMENT/CAPABILITIES

TECHNICAL FACILITIES AND EQUIPMENT ARE AVAILABLE TO PROVIDE A COMPLETE RANGE OF SERVICES FOR CONDUCTING DT AND E FLT TESTS OF AERONAUTICAL SYS, TO CONDUCT FLT EVAL AND RECOV/RETRIEVAL OF RSCH VEH, AND TO TRAIN TEST PILOTS. ENGINEERING LABS, REALTIME INSTRUMENTED RANGES, DATA COLLECTION, REDUCTION AND ANALYSIS LABS, PHOTO/TV, ACFT/ENGINE MAINT, TEST EQUIP, ELECTRONICS SHOPS, AND A COMPLEX OF DRY LAKES FOR RECOVERY AND EMERGENCY LANDINGS PROVIDE VARIOUS SUPPORT FOR ALL TEST PROGRAMS. OTHER MAJOR FACILITIES ARE PRECISION IMPACT, GUNNERY/BOMBING, INFRARED PHOTO RESOLUTION, RADAR FIDELITY, TACTICAL AND OPTICAL RANGES, CONTRACTOR ASSIGNED HANGARS, SHOPS LABORATORIES, OFFICE SPACE, ENGINEERING SIMULATION LABORATORY AND MUNITIONS STORAGE AND CHECKOUT

INSTALLATION FRANK J. SEILER RESEARCH LABORATORY

USAF ACADEMY, CO.

C.O. COL. G.W. BROCK

CH. SCI. LT.COL T.M. TOMASKOVIC

PROGRAM	PROGRAM DATA BY FISCAL YEAR (MILLION \$)	
	1974 (ACTUAL)	1975 (ACT + EST)
TOTAL RDT&E	0.520	0.525
TOTAL PROCUREMENT	0.520	0.525
TOTAL O&M	0.000	0.000
TOTAL OTHER	0.506	0.560
TOTAL ANNUAL LAB	1.546	1.610
TOTAL INHOUSE	1.546	1.610
TOTAL INHOUSE RDT&E	0.520	0.525
ANNUAL OPERATING COST	0.035	0.038

PERSONNEL	PERSONNEL DATA (END OF FY 1974)			
	AUTHORIZED STRENGTH	TOTAL PHDS	TOTAL PROF	NON- PROF
MILITARY	22	12	24	2
CIVILIAN	9	1	3	6
TOTAL	31	13	27	8

ACRES	SPACE AND PROPERTY				COST (MILLION \$)	
	SPACE (THOUSANDS OF SQUARE FEET)			TOTAL	REAL PROP	EQUIP
	LAB	ADMIN	OTHER			
0	9.400	2.800	0.240	12.440	1.300	1.578

...MISSION

CONDUCT RESEARCH IN AEROSPACE-MECHANICS, APPLIED MATHEMATICS & CHEMISTRY. ENCOURAGE & SUPPORT ACADEMY FACULTY & CADET RESEARCH BY DIRECT PARTICIPATION, MONITOR FACULTY CONSULTANT PROG, SUMMER LAB PROG, FOCAL POINT FOR USAF ACADEMY RESEARCH PROPOSED TO AFSC/DL RESEARCH & TECHNOLOGY LABS.--

...CURRENT IMPORTANT PROGRAMS

THEORETICAL AND SYNTHETIC RESEARCH ON ENERGETIC MATERIALS AND UNIQUE MONOMERS, POWER SUPPLIES BASED ON MOLTEN ALUMINUM SALT ELECTROLYTES. --- MODELING, OPTIMIZATION, PROGRAMMING & CONTROL (MATH MODELS GUIDANCE SYSTS) NONLINEAR CONTROL THEORY & ESTIMATES, FILTERING, & MICROPROCESSOR RSCH. --- FLUID MECHANICS, SHOCK WAVE RSCH, AERODYNS. OF SHAPES, FLOW VISUALIZATION.

...FUNCTIONS/EQUIPMENT/CAPABILITIES

MATH MODELING & OPTIMIZATION OF GUIDANCE & CONTROL SYSTS USING BURR. B6700 COMPUTER. ENERGETIC MATERIALS RESEARCH, SYNTHESIS OF UNIQUE MONOMERS, ELECTROCHEMISTRY IN A 6 POSITION LABORATORY AND INSTRUMENT ROOM CONTAINING IR & UV SPECTROPHOTOMETERS, X-RAY, NMR & MASS SPECTROMETERS, GAS CHROMATOGRAPHIC & ASSOC. EQUIPMENT. -- GASDYNAMIC RESEARCH USING 17-INCH LOW DENSITY SHOCK TUBE & VUV INSTRUMENTATION, AERODYNAMIC RESEARCH IN USAFA SUBSONIC & TRISONIC WIND TUNNELS, HOLOGRAPHIC & OTHER OPTICAL FLOW VISUALIZATION INSTMTS. --- ADVANCED ANALYSIS & EVALUATION TECHNIQUES FOR INERTIAL GUIDANCE SENSORS USING 2-AXIS TEST TABLE (GYRO), AUTOMATIC AZIMUTH ALIGNMENT EQUIPMENT AND ELECTRONIC CONTROL EQUIPMENT FOR 50 SERIES INERTIAL DEVICES LOCATED IN A CLASS 1000 CLEAN LAB ON 80 TON AIR SUPPORTED STABLE PLATFORM-INCL. COMPUTER & SOFTWARE TO AUTOMATE GYRO RSCH.

INSTALLATION HUMAN RESOURCES LABORATORY

BROOKS AFB, TX.

C.O. COL. H.E. FISCHER

CH. SCI. DR. H.L. PARRIS

PROGRAM	PROGRAM DATA BY FISCAL YEAR (MILLION \$)	
	1974 (ACTUAL)	1975 (ACT + EST)
TOTAL RDT&E	13.064	13.065
TOTAL PROCUREMENT	0.000	0.000
TOTAL C&M	0.000	0.000
TOTAL OTHER	1.639	1.757
TOTAL ANNUAL LAB	14.703	14.822
TOTAL INHOUSE	6.918	8.140
TOTAL INHOUSE RDT&E	5.451	6.600
ANNUAL OPERATING COST	0.933	1.122

PERSONNEL	PERSONNEL DATA (END OF FY 1974)				NON- PROF
	AUTHORIZED STRENGTH	TOTAL PHDS	TOTAL PROF		
MILITARY	126	8	95		31
CIVILIAN	239	34	122		117
TOTAL	365	42	217		148

ACRES	SPACE AND PROPERTY				COST (MILLION \$)	
	LAB	ADMIN	OTHER	TOTAL	REAL PROP	EQUIP
13	70.464	31.835	47.543	149.842	3.224	4.242

...MISSION

PRINCIPAL AFSC UNIT CHARGED WITH PLANNING AND EXECUTING USAF EXPLORATORY AND ADVANCED DEVELOPMENT PROGRAMS FOR SELECTION, MOTIVATION, TRAINING, RETENTION, EDUCATION, UTILIZATION AND CAREER DEVELOPMENT OF USAF MILITARY PERSONNEL & COMPOSITION OF PERSONNEL FORCE & AND TRAINING EQUIPMENT.

...CURRENT IMPORTANT PROGRAMS

ADVANCED INSTRUCTIONAL SYSTEMS AND ADVANCED SIMULATION FOR UNDERGRADUATE PILOT AND AEROSPACE CREW TRAINING. IMPROVED PERSONNEL SELECTION, CLASSIFICATION, EVALUATION, AND UTILIZATION TECHNIQUES. HUMAN FACTORS IN DESIGN OF TRAINING SYSTEMS. DESCRIBING, EVALUATING AND STRUCTURING AIR FORCE OCCUPATIONS. DOD MANPOWER DEVELOPMENT PROGRAM EVALUATION AND IMPROVEMENT.

...FUNCTIONS/EQUIPMENT/CAPABILITIES

FUNCTIONAL AREAS OF OCCUPATIONAL ANALYSIS, PERSONNEL PROCUREMENT, PERSONNEL CLASSIFICATION, RETENTION AND SEPARATION, PERSONNEL SYSTEM COMPUTER SIMULATION MODELS, MANPOWER REQTS OF AF WEAPON SYS TRAINING TECHNIQUES, DESIGN OF SIMULATORS AND OTHER TRAINING DEVICES CAPABILITIES CONDUCT TRAINING RESEARCH ASSOC WITH PILOT TRAINING USING SOPHISTICATED HIGH-FIDELITY A/C SIMULATOR, ADVANCED INSTRUCTIONAL SYS FOR INDIVIDUALLY PAGED COMPUTER AIDED TECH INSTRUCTION, CHECKOUT AND MAINT OF ELECTRONIC EQUIP, TECH AND PROF LIBRARY, PERSONNEL TESTING ROOMS, AUDIO VISUAL EQUIP, RESEARCH SIMULATOR COCKPIT, INFINITY OPTICS DISPLAY, RAYTHEON PB440 DIGITL COMPUTER, UNIVAC 1108 ELECTRONIC DATA PROCESSING SYSTEM WITH 2 CPUS, 12 TAPE DRIVES, 16 UNISCOPE INTERACTIVE TERMINALS, GRAPHICS DISPLAY CONSOLE, 2 PRINTERS, CARD READER, CARD PUNCH. ELEC ASSOC TR 48 ANALOG COMPUTER

INSTALLATION MATERIALS LABORATORY

WPAFB, OH.

MR. G.P.PETERSON-DIR AND COL. R.F.KUESTNER-COR AND DR. F.KELLEY-CHF SCI.

PROGRAM	PROGRAM DATA BY FISCAL YEAR (MILLION \$)	
	1974 (ACTUAL)	1975 (ACT + EST)
TOTAL RDT&E	38.790	44.926
TOTAL PROCUREMENT	14.045	20.500
TOTAL O&M	0.000	0.000
TOTAL OTHER	1.159	1.260
TOTAL ANNUAL LAB	53.994	66.686
TOTAL INHOUSE	10.933	11.538
TOTAL INHOUSE RDT&E	9.774	10.278
ANNUAL OPERATING COST	3.165	3.527

PERSONNEL	PERSONNEL DATA (END OF FY 1974)			
	AUTHORIZED STRENGTH	TOTAL PHDS	TOTAL PROF	NON- PROF
MILITARY	56	20	54	2
CIVILIAN	343	43	236	107
TOTAL	399	63	290	109

ACRES	SPACE AND PROPERTY			COST (MILLION \$)		
	SPACE (THOUSANDS OF SQUARE FEET)			TOTAL	REAL PROP	EQUIP
	LAB	ADMIN	OTHER			
9	160.000	97.000	27.000	284.000	7.175	12.522

...MISSION

PLAN/EXECUTE EXPLORATORY AND ADVANCED DEVELOPMENT, AND ASSIGNED BASIC RSCH. PROGS. FOR MATERIALS. PROVIDE TECH./MANAGEMENT ASSISTANCE FOR STUDIES, ANALYSES, DEVELOPMENT PLANNING, ACQUISITION, TEST, EVALUATION MOD. AND OPN. OF AEROSPACE SYSTEMS. MANAGE/DIRECT A.F. MFG. PROG.

...CURRENT IMPORTANT PROGRAMS

ADVANCED DEVEL. PROG., COMPOSITES, METALS, AND LASER HARDENING
MANUFACTURING TECHNOLOGY COST REDUCTION PROGRAM
THERMAL PROTECTION MATERIALS FOR REENTRY VEHICLES
PROPULSION MATERIALS
SYSTEMS SUPPORT

...FUNCTIONS/EQUIPMENT/CAPABILITIES

MATERIALS RESEARCH AND DEVELOPMENT FACILITIES AND CAPABILITIES FOR:
AEROSPACE STRUCTURES, TPS FOR BALLISTIC RV, AND ENGINES, FLUIDS, LUBRICANTS.
FLUID CONTAINMENT PROPULSION, COATINGS, FIBERS, EM WINDOWS, SENSORS,
DISPLAYS, LASER WINDOWS, AND OPT DEVICES, ELECT. COMPONENTS, NON-DESTRUCT.
TESTING, POLYMERS, ADHESIVES, NONMETALLIC MATRIX COMPOSITES, ELASTOMERS,
METALS, ALLOYS, METAL COMPOSITES, METAL PROCESSING,
INTERMETALLICS, CERAMICS, STATIC AND DYNAMIC BEHAVIOR, JOINING, GRAPHITE,
ELECTRONIC, PHYSICAL CHEMICAL ANALYSIS. OTHER MAJOR MATERIALS FUNCTIONS:
MANUFACTURING TECHNOLOGY, SYSTEMS APPLICATION, SYSTEMS SUPPORT, THERMAL
PROTECTION MATERIALS.

INSTALLATION ROCKET PROPULSION LABORATORY

EDWARDS AFB, CA.

C.O. COL. EARL B. ESSING

CH. SCI. DR. RICHARD W. WEISS

PROGRAM	PROGRAM DATA BY FISCAL YEAR (MILLION \$)	
	1974 (ACTUAL)	1975 (ACT + EST)
TOTAL RDT&E	23.196	27.583
TOTAL PROCUREMENT	0.000	0.000
TOTAL OEM	0.000	0.000
TOTAL OTHER	2.256	2.207
TOTAL ANNUAL LAB	25.452	29.790
TOTAL INHOUSE	10.716	11.801
TOTAL INHOUSE RDT&E	8.584	9.719
ANNUAL OPERATING COST	0.270	0.285

PERSONNEL	PERSONNEL DATA (END OF FY 1974)		TOTAL PROF	NON- PROF
	AUTHORIZED STRENGTH	TOTAL PHDS		
MILITARY	178	10	66	112
CIVILIAN	267	10	101	166
TOTAL	445	20	167	278

ACRES	SPACE AND PROPERTY			COST (MILLION \$)		
	SPACE (THOUSANDS OF SQUARE FEET)			TOTAL	REAL PROP	EQUIP
	LAB	ADMIN	OTHER			
54400	419.046	86.848	4.780	510.674	29.869	22.649

...MISSION
PLAN, FORMULATE, PRESENT, AND EXECUTE THE AFSC EXPLORATORY AND ADV DEV. ELOPMENT PROGRAMS IN ROCKET PROPULSION SYSTEM, COMPONENTS, PROPELLANTS AND ASSOCD EQUIP. CONDUCT IN-HOUSE EXPERIMENTATION. SUPPORT DEPLOYED AND DEVELOPMENTAL SYSTEMS. IS AFSC FOCAL POINT IN THE ASSIGNED TECH AREAS.

...CURRENT IMPORTANT PROGRAMS
ADVANCED SOLID PROPELLANTS, NOZZLE DESIGNS AND SERVICE LIFE PREDICTION METHODS FOR ICBM'S. LOW COST PROPELLANTS AND MOTOR DESIGNS FOR ARMAMENT. MAXIMUM ENERGY-DENSITY AND CONTROL FLEXIBILITY FOR AIR-LAUNCHED MISSILES. LONG LIFE SATELLITE CONTROL PROPULSION. COST EFFECTIVE SPACE MANEUVERING (UPPER STAGE) PROPULSION.

...FUNCTIONS/EQUIPMENT/CAPABILITIES
LAB FOR TESTING SMALL PROPULSION SYSTEMS AND COMPONENTS UNDER SIMULATED SPACE ENVIRONMENTS. FACILITIES FOR MIXING, CASTING, CURING AND TESTING SOLID ROCKET MOTORS. A CHEM LAB FOR SYNTHESIS, ANALYSIS AND FORMULATION OF NEW PROPELLANTS. A SOLID MOTOR TEST AND EVAL COMPLEX FOR INVESTIGATION OF COMBUSTION, AGING, STRUCTURAL INTEGRITY, BALLISTIC PERFORMANCE AND HIGH TEMP COMPONENTS. AMBIENT AND ALTITUDE TESTING OF TOXIC ROCKETS, UP TO 50,000-POUND THRUST. HOT AIR CAPABILITY TO TEST AIR BREATHING PROPULSION. A FULL SCALE REENTRY NOSE CONE TEST FACILITY. A FACILITY FOR TESTING LIQUID OR SOLID ROCKETS UP TO 10,000,000-POUND THRUST. IN-HOUSE ANALYTICAL CAPABILITY FOR PROPULSION OPTIMIZATION, TRADE-OFF AND MISSION STUDIES. A COMPUTER FACILITY FOR DESIGN, ANALYSIS, AND TEST DATA REDUCTION, SHOPS FOR FABRICATING TEST HARDWARE AND TEST SYSTEMS.

INSTALLATION ROME AIR DEVELOPMENT CENTER

GRIFFISS AFB, N.Y.

C.O. COL. LLOYD H. GIESY

CH. SCI. DR. IRVING J. GABELMAN

PROGRAM	PROGRAM DATA BY FISCAL YEAR (MILLION \$)	
	1974 (ACTUAL)	1975 (ACT + EST)
TOTAL RDT&E	96.631	101.097
TOTAL PROCUREMENT	21.241	22.223
TOTAL O&M	7.662	8.016
TOTAL OTHER	19.048	19.911
TOTAL ANNUAL LAB	144.582	151.247
TOTAL INHOUSE	28.215	29.500
TOTAL INHOUSE RDT&E	22.450	23.467
ANNUAL OPERATING COST	12.596	13.226

PERSONNEL	PERSONNEL DATA (END OF FY 1974)				NON-PROF
	AUTHORIZED STRENGTH	TOTAL PHDS	TOTAL PROF		
MILITARY	308	7	112		196
CIVILIAN	1154	11	526		628
TOTAL	1462	18	638		824

ACRES	SPACE AND PROPERTY (THOUSANDS OF SQUARE FEET)			COST (MILLION \$)		
	LAB	ADMIN	OTHER	TOTAL REAL PROP	EQUIP	
2116	799.291	115.327	73.586	988.204	24.024	56.811

...MISSION

PLANS AND EXECUTES EXPLORATORY AND ADVANCED DEVELOPMENT PROGRAMS FOR ELECTROMAG INTELLIGENCE AND RECON PROCESSING, DISPLAYS, SURVEILLANCE, RELIABILITY AND COMPATIBILITY, COMMUNICATIONS FOR AF, DOD AND OTHER ORGANIZATIONS, PROVIDES TECHNICAL CONSULTATION TO MAJOR AIR COMMANDS.

...CURRENT IMPORTANT PROGRAMS

ELECTROMAGNETIC RELIABILITY AND COMPATIBILITY TECH AND FIELD SUPPORT
OVER THE HORIZON DETECTION EXPERIMENTS AND DEVELOPMENTS
TECHNIQUES FOR EXPLOITATION OF INTEL DATA AND RECON IMAGERY
AUTOMATED TECHNICAL CONTROL OF TRANSMISSION LINES
ELECTRONIC WARFARE THREAT SIMULATORS FOR EW TRAINING

...FUNCTIONS/EQUIPMENT/CAPABILITIES

PROVIDES A WELL BALANCED COMBINATION OF PROFESSIONAL SKILLS AND EXPERIMENTAL FACILITIES TO MARRY THEORETICAL STUDIES TO POTENTIAL APPLICATION. BY COMBINATION OF AIRBORNE LABORATORY MEASUREMENT IN INSTRUMENTED FLIGHT TEST AIRCRAFT AND FLEXIBLE ON-BASE AND OFF-BASE EXPERIMENTAL SITES, A HIGH DEGREE OF SOPHISTICATION IS ACHIEVED FOR CONDUCTING GROUND ELECTROMAGNETIC STUDIES AND EXPERIMENTS. CAPABILITIES ARE AVAILABLE FOR CONDUCTING HIGH AND LOW POWER EXPERIMENTS OVER ELECTROMAGNETIC SPECTRUM FROM EXTREMELY LOW FREQUENCIES TO LIGHT. SCIENTIFIC STUDIES ARE PERFORMED USING ONE OF THE NATIONS LARGEST ON-LINE TIME SHARING COMPUTERS. RESOURCES ARE PRIMARILY USED IN EXPLORATORY AND ADVANCED DEVELOPMENTS AND EXTENDING TO TECHNICAL SUPPORT THIRTY-SIX OTHER AIR FORCE AND DOD ORGANIZATIONS.

INSTALLATION SPACE AND MISSILE TEST CENTER

VANDENBURG AFB, CA.

CDR MG HERBERT A. LYON

ATG TECH DIR MR. EUGENE E. CLARY

PROGRAM	PROGRAM DATA BY FISCAL YEAR (MILLION \$)	
	1974 (ACTUAL)	1975 (ACT + EST)
TOTAL RDT&E	57.525	54.000
TOTAL PROCUREMENT	0.000	0.000
TOTAL U&M	0.000	0.000
TOTAL OTHER	15.654	21.439
TOTAL ANNUAL LAB	73.179	75.439
TOTAL INHOUSE	18.879	18.227
TOTAL INHOUSE RDT&E	11.808	10.702
ANNUAL OPERATING COST	3.617	3.746

PERSONNEL	PERSONNEL DATA (END OF FY 1974)			
	AUTHORIZED STRENGTH	TOTAL PHDS	TOTAL PROF	NON- PROF
MILITARY	423	4	210	213
CIVILIAN	374	3	132	242
TOTAL	797	7	342	455

ACRES	SPACE AND PROPERTY SPACE (THOUSANDS OF SQUARE FEET)			COST (MILLION \$)		
	LAB	ADMIN	OTHER	TOTAL	REAL PROP	EQUIP
55567	91.407	334.384	431.954	857.745	94.520	99.737

...MISSION

MANAGE SPACE AND MISSILE FIELD TEST OPERATIONS. DEVELOP, MANAGE, AND OPERATE THE WESTERN TEST RANGE AS A NATIONAL RANGE IN SUPPORT OF DOD AND NON-DOD PROGRAMS.

...CURRENT IMPORTANT PROGRAMS

MINUTEMAN II & III OPERATIONAL TESTING.
BALLISTIC MISSILE DEFENSE TEST TARGET PROGRAM USING TITAN BOOSTERS.
ABRES PROGRAMS.
CLASS & UNCLASS SPACE LAUNCHES USING ATLAS, THOR, TITAN & SCOUT BOOSTERS
MINUTEMAN III R&D.

...FUNCTIONS/EQUIPMENT/CAPABILITIES

SAMTEC CAPABILITIES INCLUDE TEST LAUNCH AND RANGE SUPPORT: TEST LAUNCH COVERS ASSEMBLY & PRELAUNCH TESTING OF LAUNCH VEHICLE SYSTEMS USING THOR ATLAS, SCOUT, M/M & TITAN BOOSTERS, AND AGENA & TITAN III UPPER STAGES & PAYLOAD & VEHICLE INTERGRATION & CHECKOUT & LAUNCH CONTROL. RANGE SUPPORT INCLUDES NEAR & FAR TERM RANGE INSTRUMENTATION PLANNING AND DATA GATHERING ON BALLISTIC/ORBITAL/PROBE LAUNCHES, AERONAUTICAL SYSTEMS AND OTHER TESTS. VARIOUS FIXED & MOBILE ELECTRONIC & OPTICAL INSTRUMENTATION IS AVAILABLE ON THE WEST COAST, PACIFIC ISLANDS, AND SHIPS & AIRCRAFT TO PROVIDE RANGE SAFETY & PROGRAM TEST DATA. LAUNCH AZIMUTHS VARY FROM 165 TO 310 DEGREES. LAUNCH FACILITIES & RANGE INSTRUMENTATION CAN BE RECONFIGURED TO MEET PROGRAM REQUIREMENTS. IMPACT SCORING OF BALLISTIC PAYLOADS IS AVAILABLE AT ISLAND SITES AND IN THE BROAD OCEAN AREA.

INSTALLATION USAF SCHOOL OF AEROSPACE MEDICINE

BROOKS AFB, TX.

C.O. COL. E.R. GULTRA

PROGRAM	PROGRAM DATA BY FISCAL YEAR (MILLION \$)	
	1974 (ACTUAL)	1975 (ACT + EST)
TOTAL RDT&E	10.626	9.889
TOTAL PROCUREMENT	0.056	0.052
TOTAL O&M	1.056	1.503
TOTAL OTHER	7.976	8.416
TOTAL ANNUAL LAB	19.714	19.860
TOTAL INHOUSE	18.166	18.136
TOTAL INHOUSE RDT&E	9.118	8.202
ANNUAL OPERATING COST	3.760	3.298

PERSONNEL	PERSONNEL DATA (END OF FY 1974)			
	AUTHORIZED STRENGTH	TOTAL PHDS	TOTAL PROF	NON- PROF
MILITARY	598	78	210	388
CIVILIAN	355	36	119	236
TOTAL	953	114	329	624

ACRES	SPACE AND PROPERTY			TOTAL	COST (MILLION \$)	
	SPACE (THOUSANDS OF SQUARE FEET)	LAB	ADMIN		REAL PROP	EQUIP
93	464.290	100.387	62.742	627.419	16.535	24.449

...MISSION

AEROMEDICAL RESEARCH AND DEVELOPMENT
AEROMEDICAL EVALUATION AND CONSULTATION
AEROMEDICAL EDUCATION
AEROMEDICAL SUPPORT TO USAF MISSIONS

...CURRENT IMPORTANT PROGRAMS

BIOMEDICAL LASER HAZARDS
MAN-ATMOSPHERIC ENVIRONMENT INTERACTION IN AF SYSTEMS
MEDICAL ASPECTS OF AEROSPACE OPERATIONS
RADIOBIOLOGY IN AEROSPACE OPERATIONS
CREW PERFORMANCE TO ACCELERATION AND MISSION DURATION IN AF SYSTEMS

...FUNCTIONS/EQUIPMENT/CAPABILITIES

USAF SCHOOL OF AEROSPACE MEDICINE - RESEARCH IN AEROSPACE MED PROBLEMS. ENVIRONMENTAL STRESS, DEVELOPMENTAL ENGINEERING, RADIOBIOLOGY, LASER HAZARDS, BIOMETRICS, BIOSCIENCE, BIOMED ENGINEERING AND EPIDEMIOLOGY FACILITIES. WHOLE BODY COUNTER, HUMAN CENTRIFUGE, VARIOUS TEST CELLS AND CHAMBERS, COCKCROFT - WALTON ACCELERATOR, NEUTRON GENERATOR, PHILCO 2000 DIGITAL COMPUTER, ROTATIONAL FLIGHT SIMULATOR, KILO-CURIE CO-60 RADIATION SOURCE. AEROSPACE MEDICAL SCIENCE LAB, AEROSPACE MEDICAL CONSULTATIVE SERVICES, AEROMEDICAL EVALUATION. CLINICAL SCIENCE, OCULO-THERMAL, RESEARCH OPTICAL, AUDIOLOGY, VESTIBULAR, PSYCHOBIOLOGY, RADIO-ISOTOPE, AEROSPACE MEDICAL STANDARDS, AND LASER HAZARDS FACILITIES. ZEISS PHOTO-CUAGULATOR, VECTORCARDIOGRAPH MACHINE, BALLISTOCARDIOGRAPH MACHINE, PHONOCARDIOGRAPH MACHINE, AND MASS SPECTROMETERS.

INSTALLATION WEAPONS LABORATORY

KIRTLAND AFB, N.M.

C.O. COL. D.R. CUNNINGHAM

CH. SCI. DR. A.H. GUENTHER

PROGRAM	PROGRAM DATA BY FISCAL YEAR (MILLION \$)	
	1974 (ACTUAL)	1975 (ACT + EST)
TOTAL RDT&E	83.381	105.962
TOTAL PROCUREMENT	0.160	0.400
TOTAL O&M	0.538	0.000
TOTAL OTHER	10.496	11.976
TOTAL ANNUAL LAB	94.575	118.338
TOTAL INHOUSE	33.207	40.686
TOTAL INHOUSE RDT&E	22.513	28.610
ANNUAL OPERATING COST	0.000	0.050

PERSONNEL	PERSONNEL DATA (END OF FY 1974)			
	AUTHORIZED STRENGTH	TOTAL PHDS	TOTAL PROF	NON- PROF
MILITARY	735	101	529	206
CIVILIAN	403	30	211	192
TOTAL	1138	131	740	398

ACRES	SPACE AND PROPERTY SPACE (THOUSANDS OF SQUARE FEET)			COST (MILLION \$)		
	LAB	ADMIN	OTHER	TOTAL	REAL PROP	EQUIP
1223	403.854	63.681	65.324	532.859	13.891	37.850

...MISSION
RESPONSIBLE FOR EXPLORATORY-,ADVANCED-,AND ENGRG DEV PRGMS IN NUC WPN EFFECTS, COMPONENTS, ADVANCED WPN TECHNOLOGY, LASER SYS, RADN HAZARDS, NUC SURVIVABILITY/VULNERABILITY. DEV SYS NUC HARDNESS CRITERIA, ASSESSES SYS, NUC SAFETY. CONDUCTS CIV ENGRG EXPLORATORY- AND ADVANCED DEV PRGMS.

...CURRENT IMPORTANT PROGRAMS
ADVANCED RADIATION TECHNOLOGY
AEROSPACE FACILITIES TECHNOLOGY
NUCLEAR SURVIVABILITY/VULNERABILITY ANALYSIS AND TESTING
NUCLEAR SAFETY ANALYSIS AND DESIGN CRITERIA
NUCLEAR WEAPONS EFFECTS ANALYSIS AND TESTING

...FUNCTIONS/EQUIPMENT/CAPABILITIES
NUCLEAR WEAPONS EFFECTS SIMULATION, SAFETY, COMPONENT ASSESSMENT AND ANALYSIS OF WEAPONS SYSTEMS NUCLEAR HARDNESS ARE CONDUCTED IN NUCLEAR ENGINEERING TEST LABORATORIES AND PHYSICS LABORATORIES. SIMULATION TESTS ON MISSILES, AIRCRAFT, AND COMPONENTS USE ELECTROMAGNETIC PULSE SIMULATORS, GAS GUNS, PULSE POWER, AND X-RAY DEVICES. LASER SYSTEMS DEVELOPMENT USES LASER/OPTICS LABORATORIES AND TEST RANGES WITH LARGE, HIGH POWER DEVICES. CIVIL ENGINEERING PROGRAMS USE SOILS-, ENVIRONMENTAL-, AND CHEMICAL LABORATORIES AND SHOCK TUBES OR HIGH EXPLOSIVES FOR SIMULATION. A TECHNICAL LIBRARY, METALLURGY- AND METROLOGY LABORATORIES, A DUAL CDC-6600 COMPUTER WITH REMOTE ACCESS TERMINALS AND MULTI-CHANNEL SENSING/RECORDING AND DATA REDUCTION SUPPORT ALL REQUIRING RDT/E PROGRAMS.

INSTALLATION 6570 AEROSPACE MEDICAL RESEARCH LABORATORY WPAFB, OH

C.O. COL. F.F. DUPPELT

PROGRAM	PROGRAM DATA BY FISCAL YEAR (MILLION \$)	
	1974 (ACTUAL)	1975 (ACT + EST)
TOTAL RDT&E	12.189	11.595
TOTAL PROCUREMENT	0.000	0.000
TOTAL O&M	0.000	0.000
TOTAL OTHER	1.838	1.939
TOTAL ANNUAL LAB	14.027	13.534
TOTAL INHOUSE	7.003	6.897
TOTAL INHOUSE RDT&E	5.165	4.958
ANNUAL OPERATING COST	1.006	1.100

PERSONNEL	PERSONNEL DATA (END OF FY 1974)			
	AUTHORIZED STRENGTH	TOTAL PHDS	TOTAL PROF	NON- PROF
MILITARY	134	30	71	63
CIVILIAN	162	28	92	70
TOTAL	296	58	163	133

ACRES	SPACE AND PROPERTY			COST (MILLION \$)		
	SPACE (THOUSANDS OF SQUARE FEET)			TOTAL	REAL PROP	EQUIP
	LAB	ADMIN	OTHER			
30	223.459	10.000	15.200	248.659	11.693	16.344

...MISSION

CONDUCT R&D TO DEFINE MANS PERFORMANCE, PHYSIOLOGICAL TOLERANCE, PERSONAL PROT. NEEDS, AND DEVELOP PROTECTIVE TECHNIQUES AND EQUIP. TO SUSTAIN AND ENHANCE HIS PERF. IN AF OPERATIONAL ENVIRONMENTS. TO EST. DESIGN CRITERIA AND PROVIDE SUPPORT TO SYSTEM DEVELOPMENT IN ABOVE AREAS.

...CURRENT IMPORTANT PROGRAMS

DEFINE TOXIC HAZARDS-ENVIR. POLLUTION EFF. OF MISSILE OPS.-PROPELLANT TEST
DEVELOP A HUMAN PERF. METHOD TO COUNTER OPTICALLY AIMED WEAPONS.
INV. HELMET MOUNTED SIGHT SYS. FOR FLT. CONTROL AND WEAPON DELIVERY APPLNS.
INV. HIGH-G PILOT SEAT, CONTROLS & DISPLAYS DESIGN FOR OPS ABOVE 8 G&S.
DETERMINE MANS EXP. LIMITS, CAPABILITY, PROT. REQ. DURING ESCAPE FROM ADV. A/C

...FUNCTIONS/EQUIPMENT/CAPABILITIES

MAJOR FUNCTIONS-1. IDENTIFY, QUANTITATE AND DETERMINE TOXIC HAZARDS AND ENVIRONMENTAL POLLUTION EFFECTS CREATED BY AF OPS. 2. DEVELOP NEW CONCEPTS AND DESIGN CRITERIA TO DEFINE MAN-MACHINE SYSTEM EFFECTIVENESS IN AF OPS. 3. PROVIDE HUMAN ENGINEERING DATA, PRINCIPLES AND TECHNIQUES APPLICABLE TO DESIGN, TEST, OPS, MAINTENANCE OF AF SYSTEMS AND EQUIP. 4. STUDY EFFECTS, DEFINE MANS TOLERANCE AND PERFORMANCE DURING BIODYNAMIC AND COMBINED STRESS OF AF OPERATIONS.

MAJOR EQUIP. FACILITIES-HUMAN ENGINEERING RESEARCH LAB, TOXIC HAZARDS RESEARCH LAB, RESEARCH ANIMAL FACILITY, BIODYNAMIC-NOISE, VIBRATION, IMPACT, ACCELERATION AND COMBINED STRESS LAB. MAN RATED ALTITUDE AND ENVIRONMENT CHAMBER SIMULATION FACILITIES.

INSTALLATION ARMED FORCES RADIOBIOLOGY RES. INSTITUTE

BETHESDA, MD

MYRON L. VARDEN, CAPT USN MC

PROGRAM	PROGRAM DATA BY FISCAL YEAR (MILLION \$)	
	1974 (ACTUAL)	1975 (ACT + EST)
TOTAL R&T&E	3.584	3.812
TOTAL PROCUREMENT	0.000	0.000
TOTAL U&M	0.000	0.000
TOTAL OTHER	1.404	1.596
TOTAL ANNUAL LAB	4.988	5.408
TOTAL INHOUSE	4.988	5.408
TOTAL INHOUSE R&T&E	3.584	3.812
ANNUAL OPERATING COST	1.195	1.316

PERSONNEL	PERSONNEL DATA (END OF FY 1974)			
	AUTHORIZED STRENGTH	TOTAL PHDS	TOTAL PROF	NON- PROF
MILITARY	92	19	52	40
CIVILIAN	139	18	59	80
TOTAL	231	37	111	120

ACRES	SPACE AND PROPERTY			COST (MILLION \$)		
	SPACE (THOUSANDS OF SQUARE FEET)			TOTAL	REAL PROP	EQUIP
	LAB	ADMIN	OTHER			
10	25.000	1.500	30.000	56.500	7.910	3.536

...MISSION

THE MISSION OF AFRI SHALL BE TO
CONDUCT SCIENTIFIC RESEARCH IN THE FIELD OF RADIOBIOLOGY AND
RELATED MATTERS THAT ARE ESSENTIAL TO THE
MEDICAL SUPPORT OF THE DEPARTMENT OF DEFENSE

...CURRENT IMPORTANT PROGRAMS

EFFECTS OF IONIZING RADIATION ON BEHAVIOR
ACUTE AND CHRONIC EFFECTS OF NON-IONIZING ELECTROMAGNETIC RADIATION
DEVELOP-TEST-EVALUATE RADIOPHARMACEUTICALS TO DIAGNOSE-TREAT DISEASE
PROC NEUROLOGIC EFFECTS OF IONIZING RADIATION AND DRUGS AND IMPACT
TRAUMA STIMULATION OF MARROW RECOVERY POSTIRRADIATION

...FUNCTIONS/EQUIPMENT/CAPABILITIES

FUNCTIONS: OPERATE FACILITIES FOR CONDUCTING RADIOBIOLOGY RESEARCH AND
DISSEMINATING RESULTS; CONDUCT ADVANCE TRAINING; OPERATE FACILITIES FOR
PRODUCTION OF SHORT-LIVED RADIOISOTOPES; AND PERFORM OTHER SUCH RESEARCH
FUNCTIONS AS REQUIRED. MAJOR EQUIPMENT INCLUDES: PULSE AND STEADY STATE
NUCLEAR REACTOR, 300,000-CURIE COBALT-60 IRRADIATOR, POSITIVE ION
ACCELERATOR, ELECTRON MICROWAVE LINEAR ACCELERATOR, X-RAY MACHINES WITH
ASSOCIATED EXPOSURE ROOM COMPLEXES AND ELECTROMAGNETIC PULSE GENERATOR.
SUPPORT SERVICES INCLUDE: MEASUREMENT OF RADIATION FIELDS, PROVISION AND
CARE OF LABORATORY ANIMALS, EQUIPMENT DESIGN AND FABRICATION ASSISTANCE,
REAL-TIME DATA ACQUISITION SYSTEM, TELEVISION AND FILM DOCUMENTATION OF
EXPERIMENTS, PERSONNEL AND ENVIRONMENTAL MONITORING, EDITORIAL
ASSISTANCE IN REPORT PREPARATION, AND A LARGE TECHNICAL LIBRARY.

APPENDIX I

CHANGES IN ORGANIZATION OR NAME *

DEPARTMENT OF THE ARMY

<u>PREVIOUS</u>	<u>AS OF 1 JULY 1974</u>
LAND WARFARE LABORATORY Aberdeen Proving Ground, MD.	DISESTABLISHED
MEDICAL RESEARCH AND NUTRITION LAB, FGH Denver, CO.	DISESTABLISHED
MEDICAL RESEARCH UNIT Balboa Heights, C.Z.	DISESTABLISHED
MEDICAL RESEARCH UNIT Kuala Lumpur, Malaysia	DISESTABLISHED

DEPARTMENT OF THE NAVY

NAVAL AEROSPACE RECOVERY FACILITY El Centro, CA.	NATIONAL PARACHUTE TEST RANGE El Centro, CA.
	NAVAL ARCTIC RESEARCH LABORATORY Barrow, AK.
	NAVAL BIOMEDICAL RESEARCH LABORATORY Oakland, CA.
	US NAVAL MEDICAL RESEARCH UNIT NO. 5 Addis Ababa, Ethiopia
NAVAL CIVIL ENGINEERING LABORATORY Fort Hueneme, CA.	DISESTABLISHED
NAVAL MEDICAL RESEARCH UNIT NO. 4 Great Lakes, IL.	DISESTABLISHED

* Changes since publication of Department of Defense In-House RDT&E Activities,
30 October 1973.

APPENDIX II

Definitions

1. *In-House RDT&E Activities*--Those organizational entities engaged in performing work in any or all of the categories of research, development, test and evaluation. The RDT&E effort, however, should represent a minimum of 25 percent of the total effort of each entity reporting in order to be considered as an RDT&E activity.

2. *Professionals*--Full-time government scientific and engineering personnel actively engaged in RDT&E activities. In the case of civilians, this will include all those holding positions that fall into the following categories under the Civil Service Occupational Groups and Series of Classes, General Schedule:

150	440	665	871	1330
180	454	668	880	1340
190	457	680	881	1350
193	460	690	890	1360
401	470	701	892	1370
403	471	801	893	1372
405	482	806	894	1382
410	486	808	896	1384
413	487	810	1301	1386
414	601	819	1306	1510
430	602	830	1310	1515
434	635	840	1313	1520
435	644	850	1315	1529
436	660	855	1320	1530
437	662	861	1321	1540

Military professionals, both officer and enlisted, actively engaged in RDT&E activities should be identified with the functions described in the above-referenced civilian job series. Generally, these jobs are referenced in Department of Defense Occupational Conversion Tables DoD 1312.1-0, DoD 1312.1-E under DoD groups 5 and 6 of DoD 1312.1-0, and various other groups of DoD 1312.1-E, published under the provisions of DoD Instruction 1312.1. Lawyers, accountants, chaplains, social workers and educators should be excluded.

3. *Technicians*--Generally nonprofessionals working on an RDT&E project or program in support of a professional. In the case of civilians; it will include, but will not necessarily be limited to, those holding positions that fall into the following categories of the Civil Service Occupational Groups and Series of Classes, General Schedule:

181	636	681	895
404	645	682	1311
421	646	683	1316
455	647	698	1341
458	649	699	1371
462	650	802	1374
621	661	817	1521
622	667	818	1531
625	669	856	1541

Discretion will have to be exercised by each RDT&E activity in determining the number of military technicians. Generally, they should follow the guidelines established in defining civilian technicians and can be identified in DoD 1312.1-E.

4. *Real Property Cost*--Each reporting activity will be responsible for determining and reporting the cost of real property. This cost should be established in accordance with the guidelines and definitions in DoD Instruction 4165.14. This should also include the cost of installed equipment.

5. *Equipment Cost*--Each reporting activity will be responsible for determining and reporting the cost of personal property. This cost will include those costs incurred by the acquisition (including installation, when applicable) of all property other than real property. It will include personal property such as machine tools, environmental test equipment, furniture, laboratory equipment, vehicles, etc. Items having a unit cost of less than \$200 may be excluded.

6. *Space*--The data to be furnished should include only walled and roofed building space. It should not include such things as parking lots, open storage areas, lean-tos, etc. The source of data may be the annual report submitted in compliance with the requirements of DoD Instruction 4165.14.

7. *In-House Obligations*--Obligations reported under this category are for activities performed, or to be performed, by the organizational entity. Their work is carried on directly by their own personnel. Particular care should be taken to include under in-house performance the cost of supplies and equipment essentially of an off-the-shelf nature that are procured for use in in-house research and development, plus such things as travel, publications, and other types of services in support of in-house functions and M.P.A. Excluded from the in-house total are expenses for planning and administering programs by DoD personnel of contracts and grants for out-of-house work and M.C.A.

8. *Out-of-House Obligations*--Obligations reported under this category are for activities 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. Included as out-of-house work are all expenses paid the out-of-house performers, as well as the expenses incurred in planning and administering these programs by personnel of the organizational entity. This would also include travel and other supporting services.

9. *Annual Operating Cost*--This should generally reflect the overhead cost of operating the laboratory or facility. It should include such things as costs of utilities, rents, janitorial services, guard and fire protection, support services such as supply personnel, printing, maintenance of buildings and grounds, etc. It should not include the salaries of direct labor personnel such as scientists, engineers, technicians, draftsmen, machinists, etc.

APPENDIX III

Selected Standard Abbreviations and Acronyms

AAM -- air-to-air missile	GCA -- ground-controlled approach
AAW -- antiair warfare	HF -- high-frequency
ADPE -- automatic data-processing equipment	IFF -- identification, friend or foe
AEC -- Atomic Energy Commission	IR -- infrared
AEDC -- Arnold Engineering Development Center	MPT -- military potential test
AFMDC -- Air Force Missile Development Center	NAF -- Naval Air Facility
AFSC -- Air Force Systems Command	NASA -- National Aeronautics and Space Administration
AFWET -- Air Force weapons effectiveness testing	NASC -- Naval Air Systems Command
AMC -- Army Materiel Command	NAVORD -- Naval Ordnance Systems Command
APG -- Aberdeen Proving Ground	NAVSHIP -- Naval Ship Systems Command
ARPA -- Advanced Research Projects Agency	NEMP -- nuclear electromagnetic propagation
ASW -- antisubmarine warfare	PI -- product improvement
AUS -- Army, United States	POL -- petroleum, oil, lubricants
BIS -- Board of Inspection and Survey	QA -- quality assurance
BW -- biological warfare	QMDO -- qualitative materiel development objective
CBR -- chemical, biological, radiological	QMR -- qualitative materiel requirement
CE -- Chief of Engineers, Army	RDT&E -- research, development, test and evaluation
CG -- commanding general	RF -- radio frequency
CNO -- Chief of Naval Operations	RV -- reentry vehicle
COMMEL -- communications electronics	SATS -- short airfield tactical support
DA -- Department of the Army	SDR -- small development requirement
DASA -- Defense Atomic Support Agency	SI -- ship installation
DoD -- Department of Defense	SP -- self-propelled
DZ -- drop zone	ST -- service test
ECM -- electronic countermeasures	T&E -- test and evaluation
ECOM -- Electronics Command, Army	TOTO -- Tongue-of-the-Ocean
ED -- engineering development	UDT -- underwater demolition team
EDT -- engineering development and test	ULMS -- Undersea Long-Range Missile System
EEG -- electroencephalogram	USATECOM -- U. S. Army Test and Evaluation Command
EKG -- electrocardiogram	UTTAS -- utility tactical transport aircraft system
ELINT -- electronic intelligence	USW -- undersea warfare
EMP -- electromagnetic propagation	UV -- ultraviolet
EMW -- electromagnetic warfare	V/STOL -- vertical/short takeoff and landing
EODC -- Explosive Ordnance Disposal Center	
ET -- engineering test	
EW -- electronic warfare	
FA -- field artillery	
FBM -- fleet ballistic missile	