COMMITTEE STAFF PROCUREMENT BACKUP BOOK

FY2000/2001 BUDGET SUBMISSION

February 1999

CHEMICAL BIOLOGICAL DEFENSE

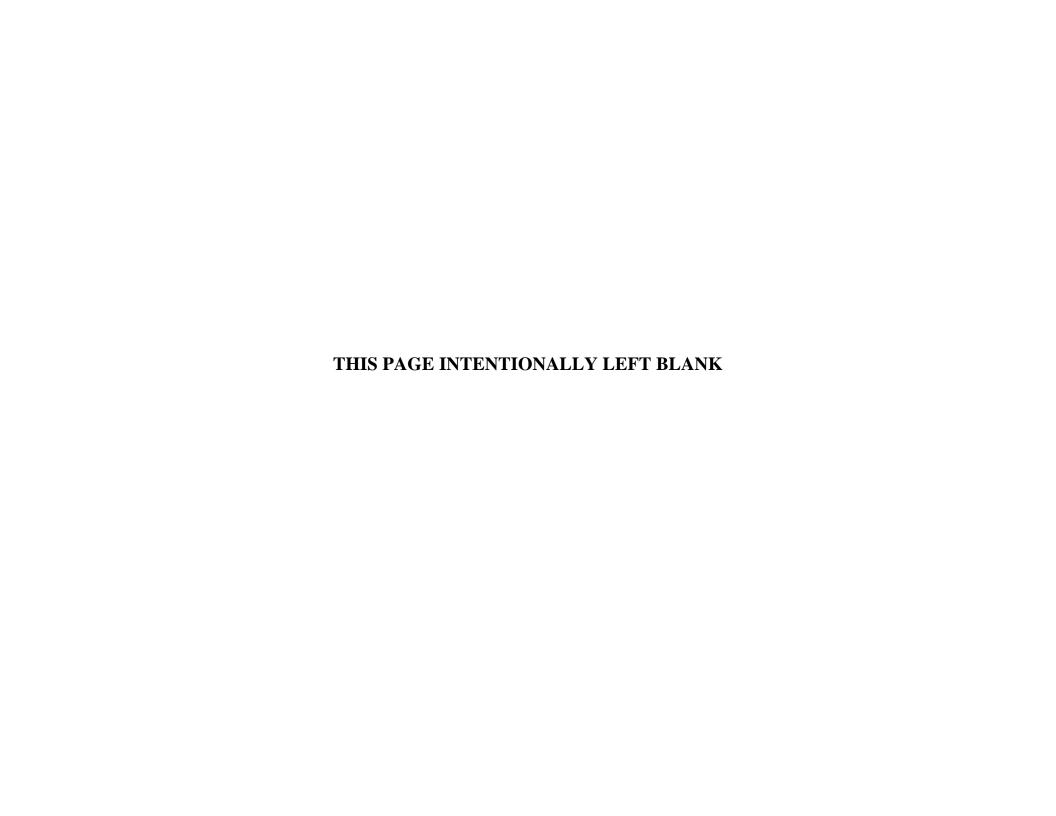


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For

Chemical and Biological Defense Program

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<u>Department of Defense Chemical/Biological Defense Program</u> FY 2000/2001 President's Budget Program Overview

The DoD Chemical/Biological Defense (CBD) Program provides development and procurement of systems to enhance the ability of U.S. forces to deter and defend against CB agents during regional contingencies. The probability of U.S. forces encountering CB agents during worldwide conflicts remains high. An effective defense will reduce the probability of a CB attack and enable U.S. forces to survive, continue operations, and win. This program supports U.S. counterproliferation policy.

This year's program continues to implement congressional direction to improve jointness and reflects an integrated DoD jointly developed program. This year's program continues funding to support counterproliferation initiatives within the passive defense area. This funding enhances and accelerates high-payoff technologies for advanced CB defense systems. This budget submission also includes \$380 million in increased research and development funding for biological warfare defense and vaccines over the FY 2000-05 Future Years Defense Program (FYDP), as well as additional FY 1999 Emergency Supplemental funding to procure CB defense equipment for the Guard and Reserves to support the Consequence Management mission. Moreover, the Department continues to procure new CB defense equipment for our forces, due in large measure to the May 1997 *Report of the Quadrennial Defense Review* (QDR) recommendation to increase planned spending on counterproliferation by \$ 1 billion over the FY 1999-2003 program period, of which \$732 million was allocated to the DoD CBD program.

The DoD CBD program invests in technologies to provide improved capabilities that have minimal adverse impact on our warfighting potential. Joint and Service unique programs support the framework of the three mission areas of CB defense: Contamination Avoidance (detection, identification, warning/reporting, reconnaissance), Force Protection (individual, collective, medical support), and Decontamination.

Within the area of *Contamination Avoidance*, sensors for joint task forces, mobile CB reconnaissance and systems capable of detecting multiple agents and characterizing new agents are being developed. Technological advances are being pursued in remote detection, miniaturization, lower detection limits, logistics supportability and biological detection capability. Within the area of *Force Protection*, technology is funded to pursue improved mask systems that provide fully compatible vision capabilities, laser/ballistic protection as well as further reduction in logistic burdens. Protective clothing is being developed under a joint program, which will reduce the weight and heat stress burden of current equipment for all services. Medical research will provide improved prophylaxes, antidotes, treatments, vaccines and medical casualty management systems. Lightweight CB protective shelters and collective protection technology advances are funded. Within the area of *Decontamination*, modular decontamination systems are being developed. Technology is funded to address advances in improved decontamination approaches.

All of these capabilities integrated together as a system-of-systems are essential to avoid contamination and to sustain operational tempo on an asymmetric battlefield. Moreover, sound Joint doctrine and realistic training remain fundamental to our defense against chemical and biological weapons. In summary, the DoD CBD program is focusing on a jointly integrated, balanced approach to obtaining needed capabilities for our forces within affordability constraints.

PROCUREMENT, DEFENSE-WIDE

Chemical/Biological Defense Program Summary

(\$ in Mill	lions)
FY 1998 Actual	233.943
FY 1999 Estimate	303.656
FY 2000 Estimate	377.396
FY 2001 Estimate	399.673

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Purpose and Scope of Work

• These funds provide for a fully integrated and coordinated Nuclear, Biological and Chemical (NBC) Defense procurement program within the Department of Defense (DoD) that meets the intent of Congress and provides the best NBC defense for our service members and our nation.

Justification of Funds

- Funding for this program was transferred from individual Service NBC defense procurement programs pursuant to Public Law 103-160, Title XVII.
- NBC Contamination Avoidance Procurement of equipment to enhance U.S. capability to detect and identify threat agents on the battlefield.
 - FY00/01: Continues procurement of the Pocket RADIAC system, the Joint Warning and Reporting Network (JWARN), Chemical and Biological (CB) defense equipment to support the Reserve Component unit requirements for domestic preparedness response against weapons of mass destruction (WMD), contamination avoidance system fielding support/spares, the Automatic Chemical Agent Alarm (ACADA), Block 1 Modifications of the FOX NBC Reconnaissance System (NBCRS), and the Improved Chemical Agent Monitor.
 - FY00: Completes installation of the Improved Point Detection System (IPDS) and begins installation of the Shipboard Automatic Liquid Agent Detector (SALAD) on amphibious, combat and select combat support ships.
 - FY01: Initiates procurement of the Joint Service Lightweight NBC Reconnaissance System (LNBCRS).
- NBC Protection/Decontamination Systems Procurement of Individual/Collective protection and Decontamination equipment to protect the soldier, sailor, airman or marine allowing the personnel to operate in a contaminated CB environment.
 - FY00/01: Continues procurement of the Aircrew Eye/Respiratory Protection (AERP) modifications, individual protective gear for naval construction forces and naval shore activities, individual protection system fielding support/spares, M40-series Protective Masks, protective clothing to include the Joint Service Lightweight Integrated Suit Technology (JSLIST) protective ensembles, the CB respiratory system, the Chemical Biological Protective Shelter (CBPS) for Army medical units, the Modular Decontamination System (MDS), and decontamination system fielding support/spares.

- FY00: Completes procurement of the Protection Assessment Test System (PATS), the M28 Transportable Collective Protection System (TCPS) to assist the Air Force in sustaining air operations in a CB environment, and the M17 Lightweight Decontamination System (LDS). Initiates the procurement of the Collectively Protected Deployable Medical System (CP DEPMEDS), the Collective Protection System backfit installation on three Navy amphibious ship classes (LHA, LHD, and LSD), the Joint Transportable Collective Protection Shelter (JTCOPS), and Joint Collective Protection Equipment (JCPE) improvements to currently fielded systems.
- FY01: Procures Collective Protection Shelter Systems for naval construction forces and naval overseas shore activities.
- Biological Detection Systems Procurement of equipment that provides for (1) detection, identification, warning and sample collection for verification that a biological attack has occurred, and (2) protection of U.S. forces with FDA approved vaccines to protect against biological threats which could be deployed against maneuver units or stationary facilities in the theater of operations.
 - FY00/01: Continues the Critical Reagents Program (CRP) to ensure the quality and availability of reagents critical to the successful development, test and operation of biological warfare detection systems and medical biological products, the DoD Biological Vaccine Program and the procurement of equipment for the Air/Base Port (Portal Shield) Advanced Concept Technology Demonstration (ACTD) program for biological detection of high-value CINC fixed sites (airbases, ports).
 - FY00: Initiates procurement of the Joint Biological Point Detection System (JBPDS) and the Counterprolifetation Long Range Biological Standoff Detection System (CP-LRBSDS) and completes procurement of the Biological Integrated Detector System (BIDS).

DEFENSEWIDE FY 2000/2001 PROCUREMENT PROGRAM

APPROPRIATION: 0300D PROCUREMENT, DEFENSE-WIDE BUDGET ACTIVITY 03: CHEMICAL/BIOLOGICAL DEFENSE

EXHIBIT P-1 DATE: FEBRUARY 1999

FY 1998 FY1999 FY 2000 FY 2001 LINE **IDENT** QUANTITY QUANTITY COST QUANTITY QUANTITY NO. ITEM NOMENCLATURE CODE COST COST COST **CBDP** INDIVIDUAL PROTECTION (GP1000) 85.0 127.5 124.6 97.9 67 DECONTAMINATION (PA1500) 2.6 10.9 10.9 9.5 JOINT BIO DEFENSE PROGRAM (MA0800) 63.1 41.6 99.6 99.4 COLLECTIVE PROTECTION (PA1600) 69 24.3 20.3 36.7 38.5 70 CONTAMINATION AVOIDANCE (GP2000) 59.0 103.4 105.6 154.4 TOTAL CHEMICAL/BIOLOGICAL DEFENSE 233.9 303.7 377.4 399.7 THIS PAGE INTENTIONALLY LEFT BLANK

PCN 025	UNCLASSIFIED	FEBRUARY 1999
SCENARIO: FY00 PB - READ MODE	PROCUREMENT FYDP (DOLLARS/QUANTITY)	

Delivincio I 100 I B Relib Robe	TROCORDINATI TIDI (BODDINO) QOTNITITI								
	FY98	FY99	FY00	FY01	FY02	FY03	FY04	FY05	FY00-05
=======================================	========						========	========	=======
GP1000 INDIVIDUAL PROTECTION									
JT SVC AVIATION MASK (JSAM)									
Dollars	0	0	0	0	0	7888	15804	14322	38014
Quantities	0	0	0	0	0	2400	5800	5200	13400
JOINT SERVICE GENERAL PURPOSE MASK (JSGP)	M)								
Dollars	0	0	0	0	0	0	0	15277	15277
Quantities	0	0	0	0	0	0	0	170000	170000
AERP AIRCRAFT MODS									
Dollars	1362	4086	1895	893	1263	956	0	0	5007
INDIVIDUAL PROTECTIVE GEAR									
Dollars	246	579	3415	5431	1566	1520	0	0	11932
JOINT PROTECTIVE AIRCREW ENSEMBLE									
Dollars	0	0	0	0	0	21333	21116	21292	63741
Quantities	0	0	0	0	0	47950	47500	47950	143400
IP SYSTEM FIELDING SUPPORT/SPARES									
Dollars	303	684	649	91	93	320	1633	1875	4661
PROTECTION ASSESSMENT TEST SYSTEM (PATS)	M41								
Dollars	5246	5335	5328	0	0	0	0	0	5328
Quantities	912	896	908	0	0	0	0	0	908
MASK, AIRCRAFT M45									
Dollars	6192	2194	0	0	0	0	0	0	0
Quantities	9768	3500	0	0	0	0	0	0	0
MASK, CHEM-BIOLOGICAL PROTECTIVE FIELD:M	40/M40A								
Dollars	6439	15925	10281	1375	0	0	0	0	11656
Quantities	38095	104785	80684	0	0	0	0	0	80684
PROTECTIVE CLOTHING									
Dollars	57873	91315	95646	86086	90144	87574	86157	86877	532484
Quantities	217626	366604	359166	330871	351340	341323	335800	338607	2057107

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PCN 025	UNCLASSIFIED	FEBRUARY 1999
SCENARIO: FY00 PB - READ MODE	PROCUREMENT FYDP (DOLLARS/QUANTITY)	

SCENARIO: FYUU PB - READ MODE		PR	COCUREMENT FY.	DP (DOLLARS/					
	FY98	FY99	FY00	FY01	FY02	FY03	FY04	FY05	FY00-05
CB RESPIRATORY SYSTEM - AIRCREW									
Dollars	7324	7334	7398	4054	0	0	0	0	11452
Quantities	1206	1180	1234	692	0	0	0	0	1926
[T] INDIVIDUAL PROTECTION									
Dollars	84985	127452	124612	97930	93066	119591	124710	139643	699552
GP2000 CONTAMINATION AVOIDANCE									
RADIAC - POCKET AN/UDR - 13									
Dollars	3164	3263	2898	2846	3762	7564	0	0	17070
Quantities	4253	3768	3151	3069	4514	10511	0	0	21245
JOINT WARNING & REPORTING NETWORK (JWARN)									
Dollars	0	10174	9012	8923	11641	10527	12067	12168	64338
Quantities	0	128	0	100	0	0	0	0	100
GUARD & RESERVE EQUIPMENT									
Dollars	0	14652	6096	1171	0	1167	0	1165	9599
JOINT CHEM AGENT DETECTOR (JCAD)									
Dollars	0	0	0	0	27142	27743	25566	25779	106230
Quantities	0	0	0	0	13866	14194	13092	13214	54366
IN-LINE WATER CHEM/BIO DETECTOR									
Dollars	0	0	0	0	0	0	1989	2006	3995
Quantities	0	0	0	0	0	0	27	27	54
CA SYSTEM FIELDING SUPPORT/SPARES									
Dollars	885	1067	1108	1987	2330	2379	3309	3092	14205
AUTO CHEMICAL AGENT ALARM (ACADA), M22									
Dollars	15722	29633	37224	48744	0	0	0	0	85968
Quantities	1845	3380	4759	6825	0	0	0	0	11584
RECON SYSTEM, FOX NBC (NBCRS) MODS									
Dollars	25335	26044	24918	31752	6362	5486	33907	35138	137563
Quantities	12	12	11	14	1	2	16	16	60

PCN 025	UNCLASSIFIED	FEBRUARY 1999
SCENARIO: FY00 PB - READ MODE	PROCUREMENT FYDP (DOLLARS/QUANTITY)	

	FY98	FY99	FY00	FY01	FY02	FY03	FY04	FY05	FY00-05
JT SVC LTWT NBC RECON SYS (LNBCRS)	_		_						
Dollars	0	0	0	39478	80887	66478	59854	69084	315781
Quantities	0	0	0	21	46	40	48	58	213
SHIPBOARD DETECTOR MODIFICATIONS									
Dollars	4647	9138	11515	6953	8762	8664	5795	1528	43217
Quantities	36	54	90	51	63	64	69	14	351
IMPROVED CHEMICAL AGENT MONITOR (ICAM)									
Dollars	9247	9465	12788	12551	0	0	0	0	25339
Quantities	1933	1927	2984	3003	0	0	0	0	5987
JS LTWT STANDOFF CW AGT DETECTOR (LSCAD)									
Dollars	0	0	0	0	3109	8935	18936	28640	59620
Quantities	0	0	0	0	30	53	150	250	483
[T] CONTAMINATION AVOIDANCE									
Dollars	59000	103436	105559	154405	143995	138943	161423	178600	882925
MA0800 JOINT BIO DEFENSE PROGRAM									
JOINT BIO POINT DETECTION SYSTEM (JBPDS)									
Dollars	0	0	48406	53935	62138	62302	44302	45951	317034
Quantities	0	0	104	140	169	167	120	130	830
JT BIO REM EARLY WARNING SYS (JBREWS)									
Dollars	0	0	0	0	0	0	34575	36398	70973
Quantities	0	0	0	0	0	0	1433	1512	2945
CRITICAL REAGENTS PROGRAM (CRP)									
Dollars	0	1746	2432	1923	1928	2024	1866	1923	12096
Quantities	0	78	78	45	16	16	16	16	190
LONG RANGE BIO STANDOFF DET SYS (LRBSDS)									
Dollars	0	0	1923	11807	11885	0	0	0	25615
Quantities	0	0	0	3	3	0	0	0	6

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PCN 025	UNCLASSIFIED	FEBRUARY 1999
SCENARIO: FY00 PB - READ MODE	PROCUREMENT FYDP (DOLLARS/QUANTITY)	

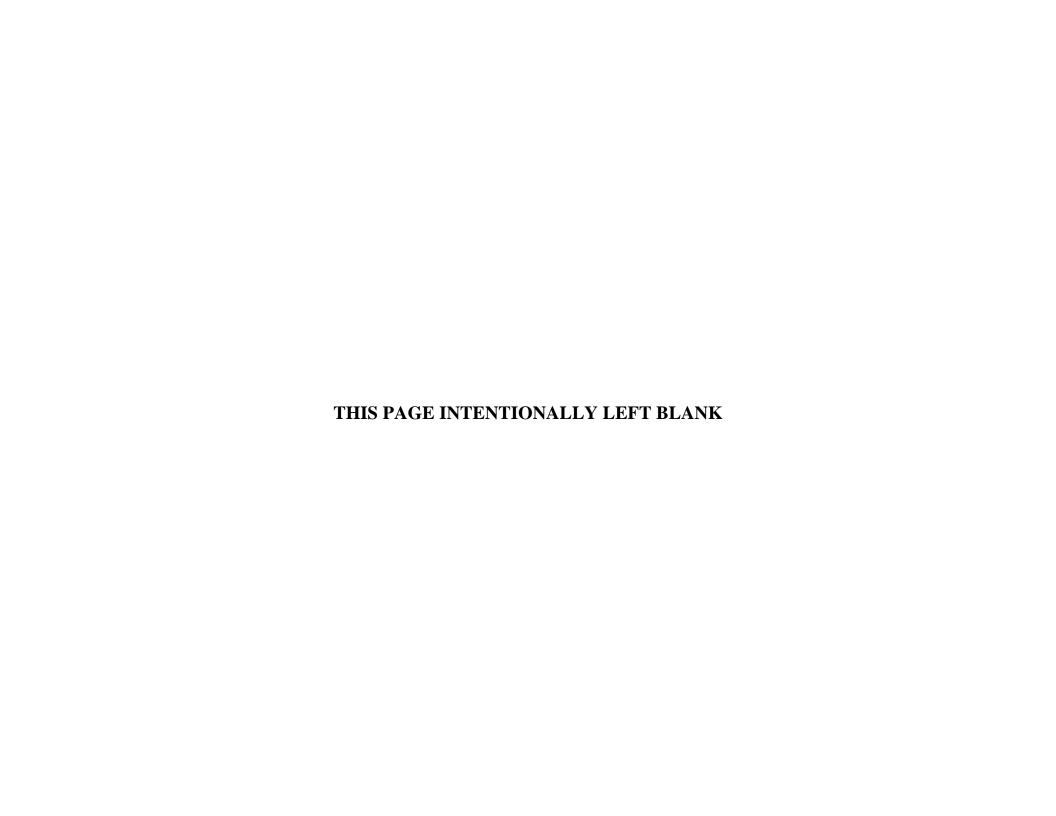
COMMICO I 100 ID REED NODE		-10	OCOMBINE II	DI (DOLLING)	QUIIIIII)				
	FY98	FY99	FY00	FY01	FY02	FY03	FY04	FY05	FY00-05
		:=======	========	:=======					=======
Portal Shield Equipment Dollars	0	13936	3909	3903	3896	0	0	0	11708
DoD Biological Vaccine Procurement Dollars	25685	10990	23424	27810	40724	46033	61410	64697	264098
JPO System Fielding Support/Spares Dollars	0	0	0	0	0	0	675	697	1372
BIO INTEGRATED DETECTOR SYSTEM (BIDS) Dollars Quantities	37371 28	14900 21	19479 20	0 0	0 0	0 0	0 0	0	19479 20
[T] JOINT BIO DEFENSE PROGRAM Dollars	63056	41572	99573	99378	120571	110359	142828	149666	722375
PA1500 DECONTAMINATION									
MODULAR DECON SYSTEM									
Dollars	0	5989	6117	9296	9702	9472	0	0	34587
Quantities	0	64	75	124	131	128	0	0	458
TOTAM GERVICE EIVER GIME REGON / TGEVR)									
JOINT SERVICE FIXED SITE DECON (JSFXD) Dollars	0	0	0	0	5027	5015	7576	6684	24302
Quantities	0	0	0	0	68	68	87	87	310
_									
JOINT SERVICE SENSITIVE EQUIPMENT DECON Dollars	0	0	0	0	0	0	3139	4775	7914
SORBENT DECON									
Dollars	0	0	0	0	4754	4784	0	0	9538
Quantities	0	0	0	0	18065	18200	0	0	36265
DE SYSTEM FIELDING SUPPORT/SPARES			4.05			4.05		a-	95-
Dollars	24	63	127	194	200	195	96	97	909

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SCENARIO: FYOO PB - READ MODE	PROCUREMENT FYDP (DOLLARS/OUANTITY)	

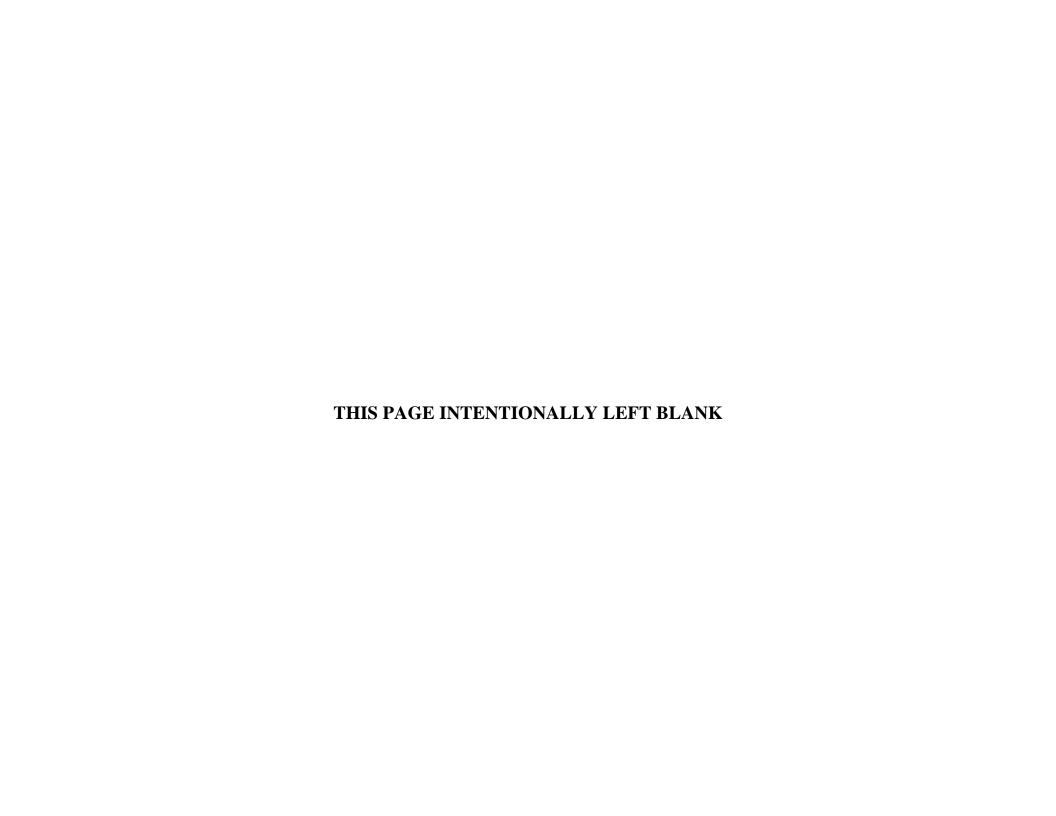
SCENARIO: FY00 PB - READ MODE		PROCUREMENT FYDP (DOLLARS/QUANTITY)							
	FY98	FY99	FY00	FY01	FY02	FY03	FY04	FY05	FY00-05
M17 LTWT Decon System (LDS)									
Dollars	2598	4847	4676	0	0	0	0	0	4676
Quantities	115	100	100	0	0	0	0	0	100
[T] DECONTAMINATION									
Dollars	2622	10899	10920	9490	19683	19466	10811	11556	81926
PA1600 COLLECTIVE PROTECTION									
COLLECTIVELY PROTECTED DEPLOYABLE MEDICAL									
Dollars	0	0	2768	2902	2001	0	0	0	7671
Quantities	0	0	4	5	3	0	0	0	12
TRANSPORTABLE COLLECTIVE PROTECTION SYSTE									
Dollars	4730	3878	6581	0	0	0	0	0	6581
NAVY SHORE EQUIPMENT									
Dollars	334	0	0	1562	2305	3762	0	0	7629
COLLECTIVE PROT SYS AMPHIB BACKFIT									
Dollars	0	0	12157	18305	18351	17469	19600	19096	104978
JOINT COLLECTIVE PROT SYSTEMS & IMPROVEM									
Dollars	0	0	1202	1059	685	690	4546	4584	12766
CO SYSTEM FIELDING SUPPORT/SPARES									
Dollars	24	0	0	0	0	0	340	344	684
CB PROTECTIVE SHELTER (CBPS)									
Dollars	19192	16419	14024	14642	16513	16547	20594	20678	102998
Quantities	47	37	32	34	38	37	45	44	230
[T] COLLECTIVE PROTECTION									
Dollars	24280	20297	36732	38470	39855	38468	45080	44702	243307
[GT]									
Dollars	233943	303656	377396	399673	417170	426827	484852	524167	2630085
Dollars									

UNCLASSIFIED



Budget Line Item #66

Individual Protection



Ex	hibit P-40, Budge	t Item Justific	ation Sheet					Date:		F.1 1000		
	•									February 1999		
Appropriation/Budget Activity	y/Serial No: PROCUREMENT DE	FENSE-WIDE/3/	CHEM-BIO DEFE	NSE		P-1 Item Nomeno	clature	(GP1000)	INDIVIDUAL PR	OTECTION		
Program Elements for Code B	Items:			Code:	Other Related	Program Elements:	:					
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	0	107.1	85.0	127.5	124.6	97.9	93.1	119.6	124.7	139.6	Continuing	Continuing
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0	107.1	85.0	127.5	124.6	97.9	93.1	119.6	124.7	139.6	Continuing	Continuing
Initial Spares												
Total Proc Cost	0	107.1	85.0	127.5	124.6	97.9	93.1	119.6	124.7	139.6	Continuing	Continuing
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: Program provides for protective masks, respiratory systems and protective clothing. The M40A1/M42A2 masks, currently in production, are replacements for the aging masks in the field. The new masks accommodate a greater portion of the current Service population, thus reducing or eliminating the need for specially-fitted masks. Other significant improvements have been made in field of view, communication, drinking capability and compatibility with other equipment. The Protective Assessment Test System (PATS) is used to assess the fit of a mask to the individual. Interim service unique procurements required for protection to Aircrews include: the Army's Aircrew Protective Mask (ACPM), which provides protection against chemical and biological (CB) agents and is more compatible with emerging optical and weapon sighting equipment; the Navy's CB Respiratory System, which fills an existing need for protection of Naval and Marine aircrews against CB agents. In the area of protective clothing, the emphasis is on the Joint Service Lightweight Integrated Suit Technology (JSLIST) program, a Four-Service effort to procure and field a common chemical protective ensemble.

JUSTIFICATION: Operational forces across the continuum of global, contingency, special operations/low intensity conflict, counternarcotics, and other high risk missions have an immediate need to survive and sustain operations in a CB threat environment. Individual protection is provided by means of masks, protective clothing, aircrew respiratory systems and firefighters' and explosive ordnance disposal ensembles. The Joint NBC Defense program includes individual protection equipment that both improves current protection levels and reduces the physiological and logistical burden on the individual soldier, sailor, airman or marine. The goal is to procure equipment which will allow for the individual to operate in a contaminated CB environment with minimal degradation in his/her performance.

Exhibit P-5, Weapon		Appropriation/B			DVO DEPENDE		tem Nomenclatur			Weapon System	Type:	Date:	
WPN SYST Cost Analysis		PROCUREME		SE-WIDE/3/CHEM-	BIO DEFENSE		NDIVIDUAL PROT	ECTION			•		ruary 1999
Weapon System	ID		FY 98			FY 99			FY 00			FY 01	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
AERP Aircraft Mods	A	1362			4086			1895			893		
Individual Protective Gear	A	246			579			3415			5431		
IP system Fielding Support/Spares	A	303			684			649			91		
Protection Assessment Test System M41	Α	5246			5335			5328					
Mask, Acft M45	A	6192			2194								
M40 Protective Mask	Α	6439			15925			10281			1375		
Protective Clothing	Α	57873			91315			95646			86086		
CB Respiratory System -Aircrew	Α	7324			7334			7398			4054		
TOTAL		84985			127452			124612			97930		

Ex	hibit P-40, Budge	t Item Justific	cation Sheet				I	Date:		February 1999		
Appropriation/Budget Activity	y/Serial No: PROCUREMENT DE	FENSE-WIDE/3/	CHEM-BIO DEFE	NSE		P-1 Item Nomeno	clature	(JN0011) AERP AIRCRA	-		
Program Elements for Code B	Items:			Code:	Other Related	Program Elements:	:					
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	2.6	0	1.4	4.1	1.9	0.9	1.3	1.0	0	0	0	13.1
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	2.6	0	1.4	4.1	1.9	0.9	1.3	1.0	0	0	0	13.1
Initial Spares												
Total Proc Cost	2.6	0	1.4	4.1	1.9	0.9	1.3	1.0	0	0	0	13.1
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: Aircrew Eye/Respiratory Protection (AERP): AERP is a second generation chemical/biological oxygen mask designed to replace the current MBU-13 mask. The new mask will provide improved chemical/biological agent protection to all Air Force air crews. The AERP is designed to improve visibility, fit, protection, and comfort. AERP is designed to provide all Air Force aircraft with chemical/biological protection in all combat theaters.

The AERP System is a combination of the Individual Protective Equipment worn by the aircrew member and the aircraft interfaces for oxygen, communications and electrical to which the aircrew member connects the AERP for chemical/biological protection. This program modifies the aircraft's oxygen, communications and electrical connections which interface with the aircrew member to accept the AERP system.

JUSTIFICATION: PMD 4026 (14) 3. USAF SON 004-85, Sustained Operations in a Chemical/Biological Environment, 19 Sep 86. Aircrew Eye/Respiratory Protection (AERP) is required for an aircrew member to operate in a chemical/biological warfare environment. FY00/01 continues the AERP Mod program.

INDIVIDUAL MODIFICATION Date: February 1999

MODIFICATION TITLE: Aircrew Eye/Respiratory Protection

MODELS OF SYSTEM AFFECTED: Multi-Aircraft

DESCRIPTION/JUSTIFICATION:

Aircrew Eye/Respiratory Protection (AERP) is required for an aircrew member to operate in a chemical/biological warfare environment. The AERP System is a combination of the Individual Protective Equipment worn by the aircrew member and the aircraft interfaces for oxygen, communications and electrical to which the aircrew member connects the AERP for chemical/biological protection. This program modifies the aircraft's oxygen, communications and electrical connections which interface with the aircrew member to accept the AERP system.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

The AERP system is already fielded in the majority of Air Force aircraft. Procurement of mainside equipment and design of aircraft modifications is on-going.

Pr Yr		FY	1998			FY	1999			FY 20	00			FY	2001				FY 2	002	
Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	2	3	4	1	2	3	4
				73				46				17					1				2
				73				46				17					1				2
										•	•	, and the second	, and the second							, and the second	•
	FY 2	2003			FY 2	004			FY 2	2005			FY 2	006				То			Totals
1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	3	4	Com	plete			
			21																		160
			21																		160
NTATION	J:				ADMINIS	STRATIV	/E LEAD	TIME:		5 Months		Pl	RODUC	TION L	EADTI	ME:	17 1	Months			
		FY 1999		3/99			FY 2000		3/00			F	Y 2001		3/01						
		FY 1999		7/00			FY 2000		7/01			F	Y 2001		7/02						
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INDIVIDUAL MODIFICATION

Date:

February 1999

MODIFICATION TITLE (Cont): Aircrew Eye/Respiratory Protection

FINANCIAL PLAN: (\$ in Millions)

	FY:	1997																		
	and	Prior	FY	1998	FY	1999	FY 2	2000	FY 2	2001	FY 2	2002	FY 2	2003	FY 2	2004	T	'C	TOT	ΓAL
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E		1.4		0.2		0.8		0.1		0.1		0.1		0.1						2.8
PROCUREMENT																				
Kit Quantity			73	1.4	46	4.1	17	1.9	1	0.9	2	1.3	21	1					160	10.6
Installation Kits																				
Installation Kits, Nonrecurring																				
Equipment																				
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Other		12.8																		12.8
Interim Contractor Support																				
Installation of Hardware																				
FY 1997 & Prior Eqpt Kits																				
FY 1998 Eqpt Kits			73																73	
FY 1999 Eqpt Kits					46														46	
FY 2000 Eqpt Kits							17												17	
FY 2001 Eqpt Kits									1										1	
FY 2002 Eqpt Kits											2								2	
FY 2003 Eqpt Kits													21						21	
FY 2004 Eqpt Kits																				
TC Equip-Kits																				
Total Equip-Kits			73		46		17		1		2		21						160	
Total Procurement Cost		12.8		1.4		4.1		1.9		0.9		1.3		1						23.4

Ex	hibit P-40, Budge	t Item Justific	cation Sheet					Date:				
	•									February 1999		
Appropriation/Budget Activity	y/Serial No: PROCUREMENT DE	FENSE-WIDE/3/	CHEM-BIO DEFE	NSE		P-1 Item Nomeno	clature	(JN0013) INI	DIVIDUAL PROT	ECTIVE GEAR		
Program Elements for Code B	Items:			Code:	Other Related	Program Elements	:					
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	0	0	0.2	0.6	3.4	5.4	1.6	1.5	0	0	0	12.8
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0	0	0.2	0.6	3.4	5.4	1.6	1.5	0	0	0	12.8
Initial Spares												
Total Proc Cost	0	0	0.2	0.6	3.4	5.4	1.6	1.5	0	0	0	12.8
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: This program provides for the initial outfitting of protective equipment for Naval Construction Forces and Naval Shore Activities to counter the effects of Chemical/Biological warfare during deployments to worldwide tactical contingencies. Items to be procured include protective clothing, detectors, decontamination equipment and medical supplies for the Naval Support Element, Naval Construction Force, Maritime Pre-positioned Forces and Naval Overseas Shore Activities.

JUSTIFICATION: Consistent with changing global defense priorities and strategies, OPNAVINST S3400.10F requires that U.S. Navy units maintain the ability to sustain operations in areas threatened or contaminated with CB agents. Without adequate equipment, personnel will not be able to maintain the capability to survive a tactical CB attack or execute approved OPLANs. FY00 procures 98 M17A3 systems, 622 M295 Decon kits, and additional Individual Protective Equipment. FY01 procures 150 M17A3 systems and 2441 M295 Decon kits.

Exhibit P-5, Weapon WPN SYST Cost Analysis		Appropriation/B		ity/Serial No.	DIO DECENSE		tem Nomenclatur			Weapon System	Туре:	Date:	uary 1999
	ID	FROCUREMI		SE-WIDE/S/CHEWI-	BIO DEFENSE		VDI VIDUAL FROT	ECTIVE GEAR	EW 00				uary 1999
Weapon System	CD	TotalCost	FY 98	UnitCost	TotalCost	FY 99 Qty	UnitCost	TotalCost	FY 00 Qty	UnitCost	TotalCost	FY 01	UnitCost
Cost Elements	CD	\$000	Qty Each	\$000	\$000	Qty Each	\$000	\$000	Each	\$000	\$000	Qty Each	\$000
		φοσο	Lacii	φοσο	φοσο	Lacii	φοσο	φοσο	Lacii	φ000	φοσο	Lacii	φοσο
1. Individual Protective Equipment		66			198			325			617		
2. Detection		6			5			320			21		
3. Decontamination		3			49			2158			4120		
4. Medical		95			49			306			461		
5. Support		76			278			306			212		
TOTAL		246			579			3415			5431		

Exh	ibit P-40, Budge	t Item Justific	cation Sheet					Date:		February 1999		
Appropriation/Budget Activity/	Serial No: PROCUREMENT DE	FENSE-WIDE/3/0	CHEM-BIO DEFE	NSE		P-1 Item Nomeno	clature	(JX0001) IP SYS	TEM FIELDING :	SUPPORT/SPARI	ES	
Program Elements for Code B I	tems:			Code:	Other Related	Program Elements:						
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty											Continuing	
Gross Cost	0	1.1	0.3	0.7	0.6	0.1	0.1	0.3	1.6	1.9	Continuing	Continuing
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0	1.1	0.3	0.7	0.6	0.1	0.1	0.3	1.6	1.9	Continuing	Continuing
Initial Spares												
Total Proc Cost	0	1.1	0.3	0.7	0.6	0.1	0.1	0.3	1.6	1.9	Continuing	Continuing
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: System Fielding Support/Spares program provides for the Total Package Fielding (TPF), First Destination Transportation (FDT), and New Equipment Training (NET) for Individual Protection Equipment funded within Chemical/Biological Defense Program (CBDP). TPF is the standard method of fielding new equipment developed under the CBDP Modernization program. The materiel developer plans, develops, acquires and deploys the Individual Protection equipment/systems, including Associated Support Items of Equipment (ASIOE) and Support List Allowance (SLAC) items through a physical handoff to the user. TPF costs include SLAC items, ASIOE, deprocessing, temporary duty (TDY), salaries and Stock Fund Managed equipment. FDT funds for transportation required to support shipment of new equipment/systems from manufacturing plants and assembly points to the first point of acceptance or storage point by the Government. (NOTE: Excludes transportation costs paid by vendor as prescribed in procurement contract). The NET process begins very early in the life cycle of a new equipment/system and provides for the development of the Qualitative Quantitative Personnel Requirement Information (QQPRI), the NET plan, and training courses to assure the proper and safe use of new equipment/systems.

JUSTIFICATION: Funding will ensure continued uninterrupted fielding of new equipment/systems to users in support of readiness and training, provide transfer of knowledge of newly procured items to the users in the field. FY00/01 funding will support the fielding of M40-series protective mask and M41 Protection Assessment Test System (PATS).

Ex	hibit P-40, Budge	t Item Justific	cation Sheet					Date:		February 1999		
Appropriation/Budget Activity	y/Serial No: PROCUREMENT DE	FENSE-WIDE/3/	CHEM-BIO DEFE	NSE		P-1 Item Nomeno		5801) PROTECTION			ATS) M41	
Program Elements for Code B	3 Items:			Code:	Other Related	Program Elements:	:					
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty	1097	1351	912	896	908							2716
Gross Cost	6.4	7.6	5.2	5.3	5.3	0	0	0	0	0	0	29.8
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	6.4	7.6	5.2	5.3	5.3	0	0	0	0	0	0	29.8
Initial Spares												
Total Proc Cost	6.4	7.6	5.2	5.3	5.3	0	0	0	0	0	0	29.8
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: The M41 Protection Assessment Test System (PATS) is a non-developmental item which consists of a small portable instrument designed to provide the soldier with a simple and accurate means of validating the facepiece fit of their protective mask. The PATS, approximately 200 cubic inches in size and 4 pounds in weight, is based on a miniature condensation nucleus counter (CNC). The CNC operates by continuously sampling and counting individual particles that occur naturally in the surrounding air. The PATS measures the concentration of these particles both inside and outside the mask and from these values calculates a fit factor (FF). The FF is a measure of the quality of the faceseal. The PATS will ensure that the soldier's assigned mask is properly sized and operational.

JUSTIFICATION: US Forces currently do not have enough M41 PATS to meet its total needs. The PATS will ensure that a soldier is issued a protective mask that is of a proper size and operational, in turn boosting the soldier's confidence in his/her mask. The PATS will be used to verify the mask fit whenever a soldier is assigned a new mask and periodically throughout the year. FY00 funds will provide 908 systems and complete this program.

Exhibit P-5, Weapon WPN SYST Cost Analysis		Appropriation/B		ity/Serial No.	DIO DECENCE		tem Nomenclatur	e: T TEST SYS (PATS) M41	Weapon System	Туре:	Date:	1000
	ID	PROCUREME		SE-WIDE/3/CHEM-	BIO DEFENSE		ROI ASSESSMEN	1 1ES1 515 (PA15					ruary 1999
Weapon System Cost Elements	ID CD	TotalCost	FY 98	UnitCost	TotalCost	FY 99 Qty	UnitCost	TotalCost	FY 00	UnitCost	TotalCost	FY 01	UnitCost
Cost Elements	CD	\$000	Qty Each	\$000	\$000	Qty Each	\$000	\$000	Qty Each	\$000	\$000	Qty Each	\$000
		\$000	Lacii	\$000	\$000	Each	\$000	\$000	Eacii	\$000	\$000	Eacii	\$000
1. PATS	A	4879	912	5.35	4883	900	5.43	5039	908	5.55			
2. Battery (BA-5847/U)													
3. Isoporpyl Alcohol (99.5 grade)		114			116			118					
4. Engineering Support (Gov't) (In-house)		253			336			171					
TOTAL		5246			5335			5328					

	Exhibit P-5a, Budget Procurement History	y and Planning						Date:	February	y 1999
Appropriation/Budget Activity/Serial No: PROCUREMENT DEFENSE-WI	DE/3/CHEM-BIO DEFENSE	Weapon Syste	em Type:		P-1 Line Ito		lature: ION ASSESSMENT			
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issu Date
PATS FY 98 FY 99 FY 00	TSI Inc., St. Paul, MN TSI Inc., St. Paul, MN TSI Inc., St. Paul, MN	SS Option ** Option**	ACALA ACALA ACALA	Jan-98 Jan-99 Jan-00	Apr-98 Apr-99 Apr-00	912 900 908	5350 5430 5550	Yes		

	FY 00 / 01 BUDGET PF	RODU	CTION SC	HEDI	JLE			P-1 I	tem N (M9:				TON	ASS	ESSM	IENT	TES	ΓSYS	STEM	И (РА	TS) M	Л41	I	Date:			Fel	oruary	1999)		
						A CCEP	DAY					Fis	scal Y	Year 9		endar `	Year	98						Fi		Year 9 Calen		ear 99				L
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PA	TS	1	FY 97	A	1351	676	675	115	115	115	115	115	100																			
PA	TS	1	FY 98	A	912		912				A			100	90	80	75	75	75	70	70	70	70	70	67							
PA'		1	FY 99 FY 99	A AF	473 427		473 427																A A			30	75	75	75	38 37	75	360 135
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PAT	27	1	FY 99	A	473	113	360	75	75	75		15	75	45																\dashv	\dashv	
PAT		1	FY 99	AF	427	292	135	,,,	7.5	7.5	75	60	,,,	.5																		
PAT	rc	1	FY 00	A	919		919							25	70	70	70	70	70	70	70	70	70	70	70	70	54					
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Ext	nibit P-40, Budge	t Item Justific	cation Sheet					Date:		February 1999		
Appropriation/Budget Activity.	/Serial No: PROCUREMENT DE	FENSE-WIDE/3/0	CHEM-BIO DEFE	NSE		P-1 Item Nomeno	clature	(M9950	1) MASK, AIRCR	AFT M45		
Program Elements for Code B	Items:			Code:	Other Related	Program Elements	:					
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty		13043	9768	3500								13268
Gross Cost	0	7.4	6.2	2.2	0	0	0	0	0	0	0	15.7
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0	7.4	6.2	2.2	0	0	0	0	0	0	0	15.7
Initial Spares												
Total Proc Cost	0	7.4	6.2	2.2	0	0	0	0	0	0	0	15.7
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: The M45 Aircrew Protective Mask (ACPM) replaces the currently fielded M49 Aircraft Mask (formerly designated the M43A1 Type II) and the M24 masks for all Army aviation applications, except the AH-64 (Apache). The ACPM consists of a facepiece, hose assembly, second skin (removable overcover), filter canister, laser and ballistic eye lens covers, vision corrective eye lens, and carrier. The M45 addresses identified limitations of previous Aircraft Masks such as a high unit cost and requirements for a separate air motor/blower system. Improvements over previous Aircraft Masks include protection and defogging of lenses without the use of an air motor/blower, reduced weight and bulk, reduced logistics and support costs, and improved sizing and fitting. The ACPM will be the principal CB protective equipment for both pilots and aircrew.

JUSTIFICATION: The FY99 procurement continues the Army purchase of a completely new aircrew mask, The Army aviation community does not have a CB protective mask which provides easy compatibility with existing and emerging aviation weapon sighting and optical equipment. Currently fielded masks require the use of a separate, battery operated motor and blower and are not fully compatible with helicopter systems. The M45 mask radically improves safety of flight and provides compatibility with night vision goggles and weapon sighting systems, thereby increasing the comfort of the aircrew. (ORD, CARDS #1273, Approved 13 Sep 93)

Exhibit P-5, Weapon WPN SYST Cost Analysis		Appropriation/Bu		ity/Serial No. E-WIDE/3/CHEM-1	BIO DEFENSE	•	tem Nomenclatur			Weapon System	Туре:	Date: Febr	uary 1999
Weapon System	ID		FY 98			FY 99			FY 00			FY 01	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
1. Hardware Mask M45	A	3807	9768	0.39	1383	3500	0.40						
TPLs		630											
Canister		88			32								
Carriers		117			42								
2. First Article Test													
a. Government													
b. Contract													
3. Engineering Changes		225			50								
4. Leak Test - 100 of Production													
a. Government		325			127								
b. Contract		180			84								
5. Quality Control (Gov't)		411			215								
6. Engineering Support (Gov't)		409			261								
TOTAL		6192			2194								

	Exhibit P-5a, Budget Procurement History an							Date:	February	1999
Appropriation/Budget Activity/Serial No: PROCUREMENT DEFENSE-W	IDE/3/CHEM-BIO DEFENSE	Weapon System	m Type:		P-1 Line It	em Nomenc	lature: 9501) MASK, AIRCF	RAFT M45		
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issu Date
Mask M45 FY 98	Campbell Plastics, Corona, CA			Jan-98	Feb-99	9768				
FY 99	Campbell Plastics, Corona, CA	SS/FPM-3(3)	ACALA	Nov-98	Jun-99	3500	400	Yes		
REMARKS: This program was procured throug										

	FY 00 / 01 BUDGET PR	ODU	CTION SC	HEDI	JLE			P-1 I	tem N	lomer	nclatu		19950	01) M.	ASK,	AIRC	CRAF	T M4	-5				Ι	Date:			Feb	ruary	1999			
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	COST ELEMENTS	F R		R V	Each	TO 1 OCT	AS OF 1 OCT	C T	O V	E C	A N	E B	A R	P R	A Y	U N	U L	A U G	S E P	O C T	O V	E C	A N	E B	A R	P R	A Y	U N	U L	U G	E P	E R
MA	SK M45	1	FY 97	A	13043		13043											160					369	1000	2000	2500	2500	2500	2014			
MA	SK M45	1	FY 98	A	9768		9768				A																		486	2500	2500	4282
MA	SK M45	1	FY 99	A	3500		3500														A											3500
								O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	
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	FY 00 / 01 BUDGET PR	ODU	CTION SC	HEDI	JLE			P-1 I	tem N	omen	ıclatuı		9950)1) M.	ASK,	AIRC	RAF	T M4	5				Ι	Oate:			Feb	ruary	1999			
												Fis	scal Y	Year (endar	Year	00						Fi		Year (Calend		ear 01				L
	COST ELEMENTS	M F R	FY	S E R V	PROC QTY Each	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	O C T	N O V	D E C	J A N		M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L		S E P	A T E R
MA	SK M45	1	FY 98	A	9768	5486	4282	2500	1782																							
MA	SK M45	1	FY 99	A	3500		3500		718	2500	282																					
								O C T	N O V	D E C	J A N	Е	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	U	S E P	
M F			PR	ODUCT	ION RATES		REACHED		FR nber					Pr	ADN	MINLE Oct		TME fter 1 O	oct		MFR ter 1 C)ct		ΓΟΤΑΙ fter 1 (•	EMAR uction		or FYs	97, 98	& 99	
R 1	NAME/LOCATION Campbell Plastics, Corona, CA		MIN. 400		1-8-5 2500	MAX. 6000	D+ 0	1		INITI REOI	IAL RDER				8			3 1			14 8			17 9		Artic	le Tes	t appro	val dat	in the)	
										INITI REOI	IAL RDER																			First A gust 19		
											RDER																					
											RDER																					
										INITI REOI	IAL RDER																					

Ex	hibit P-40, Budge	t Item Justific	cation Sheet					Date:		February 1999		
Appropriation/Budget Activity	//Serial No: PROCUREMENT DE	FENSE-WIDE/3/	CHEM-BIO DEFE	NSE		P-1 Item Nomen		01) MASK, CHEM-B	IOLOGICAL PRO	TECTIVE FIELD	D:M40/M40A1	
Program Elements for Code B	Items:			Code:	Other Related	Program Elements	:					
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty	122993	47205	38095	104785	80684							223564
Gross Cost	17.9	6.0	6.4	15.9	10.3	1.4	0	0	0	0	0	57.9
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	17.9	6.0	6.4	15.9	10.3	1.4	0	0	0	0	0	57.9
Initial Spares												
Total Proc Cost	17.9	6.0	6.4	15.9	10.3	1.4	0	0	0	0	0	57.9
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: The M40A1 mask consists of a form-fitting facepiece with rigid binocular lenses attached to the facepiece. The canister is the air-filtering medium for the mask and is mounted on the facepiece either on the left or right side, as desired by the wearer. A front voicemitter is used for face-to-face communication and a side voicemitter used for communications with telephone and radio handsets. The M40A1 mask replaces the M17 and M9A1 series masks. This mask is designed to protect the face, eyes and respiratory tract against field concentration of chemical and biological agents. The M40A1 mask is issued to the individual soldier. A Pre-planned Product Improvement was incorporated in FY93 to upgrade the M40 mask to the M40A1 configuration. The M40A1 mask incorporates a quick-doff hood that allows doffing the hood without removing the mask. The M40 and M40A1 masks were designed to be compatible with and use NATO canisters. Remanufacture efforts conducted in a Government facility will upgrade all unissued M42 and M42A1 masks to the M42A2 configuration, at a significant cost savings. Program also supports initial issue of the Universal Second Skin (USS) for the Army and USMC. The USS provides optimum liquid agent protection for the mask.

JUSTIFICATION: The masks procured with FY00/FY01 funding will allow continued replacement of the aging masks currently in the field. FY00 includes additional funds received in support of the Services' modernization effort. The M40A1 mask provides a very significant improvement over the M17 and M9 series currently deployed; the M40A1 mask provides improved fit characteristics and a higher level of protection than the 26-year-old M17 and M9 masks which are being replaced. The new design accommodates a greater portion of the current soldier population, thus reducing or eliminating the need for specially-fitted masks. Significant improvements in field of view, ability to communicate, drinking capability and compatability with other Army equipment are salient features of the new design. The externally mounted NATO interchangeable canister reduces time required to change filtration systems and allows the use of other countries' canisters, improving battlefield availability. The expedited replacement of aging masks is a necessity to maintain and improve the required state of combat readiness. The M40A1 mask is issued to the individual soldier. The M40A1 mask allows for faster, more efficient decontamination operations, resulting in higher soldier survivability.

Exhibit P-5, Weapon WPN SYST Cost Analysis		Appropriation/Bu		ity/Serial No. SE-WIDE/3/CHEM-1	DIO DECENSE		tem Nomenclatur	e: TIVE FIELD: M40/	M40A1	Weapon System	Туре:	Date:	ruary 1999
Weapon System	ID	FROCUREME		SE-WIDE/S/CHEWI-	BIO DEFENSE		MASK, CB FROTEC	TIVE FIELD, MI40/					ruary 1999
Cost Elements	CD	TotalCost	FY 98 Qty	UnitCost	TotalCost	FY 99 Qty	UnitCost	TotalCost	FY 00 Qty	UnitCost	TotalCost	FY 01 Qty	UnitCost
Cost Elements	CD	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
M40A1 Protective Field Mask Hardware (ILC Dover)	A	3309	38095	0.09	9114		0.09	7018	80684	0.09	4000	Zaea	\$000
Canister (includes 2 extra canisters for Navy in FY98 and FY99)		307			1117			726					
Production - Special Tooling													
Engineering Support		418			800			337					
Cost Bearing ECPs		150			300			700					
2. Second Skin (USMC)	A	853			2918								
3. M42A2 Upgrade (Pine Bluff Arsenal)		402			440								
4. MWO (Durability Improvement Program)		1000											
5. Universal Second Skin (Army)					1236			1500			1375		
TOTAL		6439			15925			10281			1375		

	Exhibit P-5a, Budget Procurement History	y and Planning						Date:	February	1999
Appropriation/Budget Activity/Serial No: PROCUREMENT DEFENSE-WIDE/3	8/CHEM-BIO DEFENSE	Weapon Syste	т Туре:			em Nomenc	lature: и-віоLOGICAL PRO	TECTIVE	FIELD:M4	40/M40A1
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issu Date
M40A1 Protective Field Mask FY 98 FY 99 FY 00	ILC Dover, DE ILC Dover, DE ILC Dover, DE	C/FFP-4(3) C/FFP-4(4) Option	ACALA ACALA ACALA	Jun-98 Jan-99 Jan-00	Mar-99 Sep-99 Sep-00	38095 104785 80684	87 87 87	Yes		

FY 00 / 01 BUDGET F	PRODU	CTION SC	HED	ULE						nclatu IASK,		ЕМ-В	IOLO	OGICA	AL PR	OTE	CTIVE	E FIEI	LD:M	140/M	I 40A		ate:			Feb	ruary	1999		
											Fi	iscal Y	Year 9	98									Fi	scal Y	Year 9	9				
			S	PROC	ACCEP	BAL								Cale	endar	Year 9	98							(Calend	lar Ye	ar 99			L A
COST ELEMENTS	M F R	FY	E R V	QTY Each	PRIOR TO 1 OCT	DUE AS OF 1 OCT	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	U	Е	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	U	S T E E P R
M40A1	1	FY 96	A	138481		138481				4844	5885	4514	12779	12223	7552	10752	9072 1	0000 1	10000	10000	10000	10000	10000	9237	1623					
M40A1	1	EV 07	۸	47205		47205																			9277	12000	12000	12000	2020	
M40A1 M42A2	1	FY 97 FY 97	A A	47205 24451		47205 24451		1438	2086	4978	4908		8611			1152		864		414					8311	12000	12000	12000	2828	
M40A1	1	FY 98	A	32537		32537											_	A	\dashv			\dashv							3614 1:	2000 16923
M40A1	1	FY 98	N	5558		5558												Α										-	5558	
M40A1	1	FY 99	МС	53185		53185												\dashv	\dashv					A					+	53185
M40A1	1	FY 99	N	9666		9666																		A						9666
M40A1	1	FY 99	A	41703		41703												_						A						41703
M40A1	1	FY 99	NG	231		231													_					A						231
																		_												
																		_												
																		_												
	•						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	U	Е	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	U	S E P
М		PR	ODUCT	ION RATES			M	FR						ADN	MINLE	AD TI	IME]	MFR		Т	OTAI	_	RE	MARI	KS			
F R NAME/LOCATION		MIN.		1-8-5	MAX.	REACHED D+	Nun	nber 1	INIT	TAI			Pr	ior 1 O	Oct	Aft	ter 1 Oc	t		ter 1 O	ct	Afi	ter 1 C)ct				roduction	n slowe	ed
1 ILC, Dover, DE		4000		14000	20000	6	·	1		RDER	l.			5			3			9			12		produ	iced as	proje	cted. T	his requ	ired
									INIT																2. F		elayed	laward	due to F	Ys 96
									REO:	RDER	l							_							3. Pr		on flu	ctuation	s are ba	
										RDER	t .														_				acepieco ding no	
									INIT																				he 1-8-5 oined m	rate of
 									REO:	RDER	l .															acepie		or com	meu ili	илко
										RDER	t.							\dashv												

FY 00 / 01 BUDGET PR	ODU	CTION SC	HED	ULE						nclatu 1ASK		ЕМ-В	IOLO)GIC/	AL PR	OTE	CTIVI	E FIE	ELD:N	M40/N	/140A		Date:			Feb	ruary	1999			
											Fi	iscal `	Year (00									Fi	iscal `	Year 0	1					į.
	M	FY	S E	PROC QTY	ACCEP PRIOR	BAL DUE	0	N	D	J	F	М	A	Calo M	endar J	Year J		S	0	N	D	J	F	M	Calend A	ar Ye M	ar 01 J	J	A	S	L A T
COST ELEMENTS	F R		R V	Each	TO 1 OCT	AS OF 1 OCT	C T	O V	E C	A N	E B	A R	P R	A Y	U N	Ŭ L	A U G	S E P	C T	O V	E C	A N	E B	A R	P	A Y	U N	U L	U	E P	E R
M40A1	1	FY 98	A	32537	15614	16923	12000	4923																							
M40A1	1	FY 99	МС	53185		53185		7000	10500	10500	10500	10500	4185																		
M40A1	1	FY 99	N	9666		9666							6315	3351																	
M40A1	1	FY 99	A	41703		41703								7149	10500	10500	10500	3054													
M40A1	1	FY 99	NG	231		231												231													
M40A1	1	FY 00	A	80535		80535				A								7066	10500	10500	10500	10500	10500	10500	10469						
M40A1	1	FY 00	NG	149		149				A								149													
																													_	+	
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							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	U	S E P	
М		PR	ODUCT	ION RATES			M	FR						ADI	MINLE	EAD T	IME			MFR		,	ГОТА	L	RE	MARI	KS				
F						REACHED	Nur						Pr	rior 1 C	Oct	Af	ter 1 O	ct	Ai	iter 1 C	Oct	Α	fter 1 (Oct				oductio		ed	
R NAME/LOCATION 1 ILC, Dover, DE		MIN. 4000		1-8-5 14000	MAX. 20000	D+ 6	1	1	INIT	TIAL ORDER	,			6 5			5			11 9			16 12					could cted. T		uired	
1 ILC, DOVEL, DE		4000		17000	20000	U			INIT		•			J			J			7			12		contr 2. FY	act resi 198-De	tructur elayed	ing. award	due to	FYs 96	
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									INIT																facep	iece de	emand.	The fa	acepiec	e is	
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							1			IAL ORDER	ł.														14,00	00/mon	nth is fo	or comb			•
							INITIAL and facepieces.																								
									REO	RDER	l .																				

Fy	hibit P-40, Budge	t Item Justific	eation Sheet					Date:				
LX	Tilbit i -40, baage	t item odotine	cation oneet							February 1999		
Appropriation/Budget Activity	y/Serial No: PROCUREMENT DE	FENSE-WIDE/3/	CHEM-BIO DEFE	NSE		P-1 Item Nomen	clature	(MA0400)) PROTECTIVE (CLOTHING		
Program Elements for Code B	Items:			Code:	Other Related	Program Elements	:					
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty			217626	366604	359166	330871	351340	341323	335800	338607	Continuing	Continuing
Gross Cost	0.0	58.8	57.9	91.3	95.6	86.1	90.1	87.6	86.2	86.9	Continuing	Continuing
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	58.8	57.9	91.3	95.6	86.1	90.1	87.6	86.2	86.9	Continuing	Continuing
Initial Spares												
Total Proc Cost	0.0	58.8	57.9	91.3	95.6	86.1	90.1	87.6	86.2	86.9	Continuing	Continuing
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: The Joint Service Protective Clothing program provides production of the following protective clothing ensembles:

- (1) The Joint Service Lightweight Integrated Suit Technology (JSLIST) program, currently in production, to field a common chemical protective ensemble (suits, boots, and gloves) to US Forces. The program provides adequate chemical protection, reduced heat stress, full compatibility with all interfacing equipment, longer wear (30 days) and launderability, a single technical data package and technical data manual, a standard tariff, split issue to improve fit and reduce inventory, and flame retardancy. JSLIST promotes commonality and standardization to maximize resources and eliminate redundancy among the Services. Procurement will also include the Fire Fighters' Ensemble components, Proximity Glove Liners and Modification Kits, for use with JSLIST.
- (2) The Explosive Ordnance Disposal (EOD) Ensemble: The EOD Ensemble is a replacement for the existing EOD Butyl rubber ensemble. The goal is to develop or identify a lightweight, decontaminable CB protective suit that allows the wearer full use of ground support equipment. In addition to the ensemble, Personal Individual Cooling System (PICS), Self Contained Breathing Apparatus (SCBA) Spare SCBA Bottles, and Test Repair Kits will be procured.
- (3) The Fire Fighting Ensemble (FFE) system provides modification to the JSLIST suit -- necessary for wear with the fire fighter proximity suit and fire fighter Chemical/Biological mask (NSN 4240-02-35905641).

JUSTIFICATION: Protective Clothing is a Joint Service chemical protective ensemble development, testing and production program based on a 24 November 1993 Memorandum of Agreement (MOA) among the Services. The MOA defines the responsibilities and working relationships among the participants for program management, development, and logistics support. As the designated lead service, the Marine Corps will provide milestone decision approval following service approval of materials, designs, and final garments. Protective Clothing Program (PCP) integrates technological improvements in protective military garments. These improvements provide Service members chemical/biological protection in all combat theaters. The PCPs provide more flexibility, comfort, durability and maintainability. In addition, the program provides commonality, standardization and full compatibility of all interfacing equipment. FY00 is continuing procurement of JSLIST Ensemble, which includes 359,166 boots. FY01 is continuing procurement of JSLIST Ensemble, which includes 330,871 overgarments and 253,225 boots.

Exhibit P-5, Weapon WPN SYST Cost Analysis		Appropriation/B		ity/Serial No.	BIO DEFENSE		tem Nomenclatur			Weapon System	Туре:	Date: Febr	uary 1999
Weapon System	ID		FY 98			FY 99			FY 00			FY 01	·
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
JSLIST													
1. Overgarment	A	43525	217626	0.20	73320	366604	0.20	71833	359166	0.20	66174	330871	0.20
2. Boots	A				12831	366604	0.03	12570	359166	0.03	9792	253255	0.04
3. NET/TAD/FDT/DPSC Support Cost					2659			1660			1422		
4. Industries Non-Recurring		9495											
5. Engineering Support (Gov't)		280			836			1200			1200		
6. Quality Control (Gov't)		500			350			600			600		
7. Contract Support		519			450			750			568		
EOD Ensemble	A	990	3690	0.27									
Firefighter's Ensemble													
Firefighter Modification Kit	A	1443	7039	0.21	658	3133	0.21						
2. Firefighter NBC Proximity Glove	A	1121	7039	0.16									
3. Engineering Support (Contract)					211								
JSLIST - Gloves	В							7033	281346	0.02	6330	253225	0.02
TOTAL		57873			91315			95646			86086		

Ex	chibit P-5a, Budget Procurement History a	nd Planning						Date:	February	1999
Appropriation/Budget Activity/Serial No: PROCUREMENT DEFENSE-WIDE/3/CHI	EM-BIO DEFENSE	Weapon Syste	m Type:		P-1 Line It	em Nomenc	lature: 0400) PROTECTIVE	CLOTHING	3	
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
EOD Ensemble FY 98	Geomet Tech, Germantown, MD	C/FFP	AFMC	Jan-98	May-98	3690	270	Yes		
Firefighter Modification Kits FY 98	Interspiro, Brandford, CT	C/FFP	AFMC	Feb-98	May-98	7039	210	Yes		
Firefighter NBC Proximinty Glove FY 98	Interspiro, Brandford, CT	C/FFP	AFMC	Jun-98	Aug-98	7039	150	Yes		
Firfighter Modification Kits FY 99	Interspiro, Brandford, CT	C/FFP	AFMC	Mar-99	May-99	3133	210	Yes		
JSLIST-Boots FY 99	Tingley, NJ TBS	C/FFP C/FFP	MARCORSYSCOM MARCORSYSCOM	Feb-99 Jun-99	Apr-99 Sep-99	180000 171682	35 35			Feb-99
FY 00	TBS TBS	C/FFP C/FFP	DSCP DSCP	Apr-00 Apr-00	Sep-00 Sep-00	175841 174842	35 35			
FY 01	TBS TBS	Option Option	DSCP DSCP	Apr-01 Apr-01	Sep-01 Sep-01	139906 139907	35 35			
JSLIST-Gloves FY 00 FY 01	TBS TBS	C/FFP C/FFP	MARCORSYSCOM MARCORSYSCOM	Apr-00 Feb-01	May-98 May-01	351683 253225	25 25			

REMARKS:

	Exhibit P-5a, Budget Procurement History an	,						Date:	February	1999
Appropriation/Budget Activity/Serial No: PROCUREMENT DEFENSE-WII	DE/3/CHEM-BIO DEFENSE	Weapon Syste	em Type:		P-1 Line It	em Nomenc	lature: 0400) PROTECTIVE	CLOTHING	3	
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issu Date
JSLIST-Overgarment										
FY 98	NISH (TX/IN/ME)	C/FFP	DSCP	Aug-98	Jan-99	113626	200	Yes		
	Creative Apparel, Belfast, ME	C/FFP	DSCP	Aug-98	Feb-99	104000	200	Yes		
FY 99	NISH, (TX/IN/ME)	C/FFP	DSCP	Apr-99	Sep-98	129236	200	Yes		
	Creative Apparel	Option	DSCP	Mar-99	May-99	129302	200	Yes		
	TBS	C/FFP	DSCP	Mar-99	Sep-99	108066	200	Yes		
FY 00	Creative Apparel	Option	DSCP	Mar-00	Sep-00	143166	200	Yes		
	NISH, (TX/IN/ME)	C/FFP	DSCP	Apr-00	Sep-00	110495	200	Yes		
	TBS	Option	DSCP	Mar-01	Sep-01	105505	200	Yes		
FY 01	Creative Apparel	Option	DSCP	Mar-01	Sep-01	114871	200	Yes		
	NISH, (TX/IN/ME)	C/FFP	DSCP	Apr-01	Sep-01	121040	200	Yes		
	TBS	Option	DSCP	Mar-01	Sep-01	94960	200			

REMARKS: *El Paso, TX, Gary, IN & Belfast, ME

FY 00 / 01 BUDGET PF	RODU	CTION SC	HEDI	JLE			P-1 I	tem N	Nomer	nclatu		\ 0400)) PR(OTEC	TIVE	. CLO	THIN	IG				Ι	Oate:			Feb	ruary	1999				
11 007 01 20202111	(020)	71101100		J							Fi	iscal Y	Year 9	98									F	iscal `	Year 9	9						
			_											Cale	endar	Year '	98							(`aleno	lar Ye	ar 99				L	
COST ELEMENTS	M F R	FY	S E R V	PROC QTY Each	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	U	S E P	A T E R	
EOD ENSEMBLE	4	FY 98	AF	3960		3960				A				330	330	330	330	330	330	330	330	330	330	330	330				\rightarrow	_		
FIRE FIGHTER MODIFICATION KIT	5	FY 98	AF	7039		7039					A			500	600	600	600	600	600	600	600	600	600	600	539				\rightarrow	_		
FIRE FIGHTER NBC PROXIMITY GLOVE	8	FY 98	AF	7039		7039									A		500	600	600	600	600	600	600	600	600	600	600	539	\rightarrow	_		
JSLIST - OVERGARMENT	1	FY 98	A	104000		104000											Α							13000	13000		13000		13000 1			
JSLIST - OVERGARMENT	2	FY 98	J	32626		32626											Α					3000	3000	_	3000	4000	4000	4000	_	4626		
JSLIST - OVERGARMENT	2	FY 98	N	27000		27000											Α					3000	3000	_	3000	3000	3000	3000		3000		
JSLIST - OVERGARMENT	2	FY 98	AF	27000		27000											A					3000		3000			3000	3000		3000		
JSLIST - OVERGARMENT	2	FY 98	MC	27000		27000											A					3000	3000	3000	3000	3000	3000	3000	3000 3	3000		
JSLIST - BOOTS	6	FY 99	J	183302		183302																	A		13000	13000	13000	13000	13000 1	3000	105302	
JSLIST - BOOTS	7	FY 99	J	183302		183302																					Α		_	3000	170302	
JSLIST - OVERGARMENT	1	FY 99	A	129302		129302																		Α		11301		13500	13500 1	_	64001	
JSLIST - OVERGARMENT	2	FY 99	A	55091		55091																			A	11501	15500	15500	_	3750	51341	
JSLIST - OVERGARMENT	2	FY 99	N	74145		74145																			A				_	7750	66395	
JSLIST - OVERGARMENT	3	FY 99	MC	35446		35446							_											Α	Λ					4000	31446	
JSLIST - OVERGARMENT JSLIST - OVERGARMENT	3	FY 99	AF	72620		72620																		A					——	+000	72620	
JSLIST - OVERGARMENT JSLIST - OVERGARMENT	3	FY 99	NG	2970		2970																		A						2970	72020	
JSLIST - OVERGARMENT	3	F1 99	NG	2970		2910																		Λ						2970		
JSLIST - BOOTS	6	FY 00	J	179583		179583																			A						179583	
JSLIST - BOOTS	7	FY 00	J	179583		179583																			A						179583	
JSLIST - OVERGARMENT	1	FY 00	A	143166		143166																			Α				1	4200	128966	
JSLIST - OVERGARMENT	2	FY 00	N	77820		77820																			Α					7300	70520	
JSLIST - OVERGARMENT	3	FY 00	AF	70337		70337																			Α				5	8500	61837	
JSLIST - OVERGARMENT	3	FY 00	MC	35168		35168																			A				4	4250	30918	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	U	S E P		
М		PR	ODUCT	ION RATES			M	FR						ADN	MINLE	EAD T	IME			MFR		7	ГОТА	L	RI	EMARI	KS					
F						REACHED	Nun						Pr	ior 1 O			ter 1 O	ct		ter 1 C	Oct		fter 1 (6&7						
R NAME/LOCATION		MIN.		1-8-5	MAX.	D+	j		INIT	IAL				0			5			4			9		MIN	C-1200 Oct - 6						
1 Creative Apparel, Belfast, ME		6000		8750	13000	0			REO	RDER	1			0			0			0			0		INITIAL - ADMIN LT After 1 Oct - 6 MFR After 1 Oct - 5, TOTAL After 1 Oct - 11 MFR 8 - TBS MIN - 500, 1-8-5 - 1000, MAX - 1500							
2 NISH (El Paso TX/Gary, IN/Belfast, ME)		6000		8750	12000	0	2	2	INIT	IAL				0			8			4			12									
3 TBS		6000	_	0000	13000	0				RDER	:			0			0			0			0		MIN	- 500,	1-8-5	- 1000 N I.T	, MAX - Prior 1 (- 1500 Oct - 6	, 5	
4 Geomet Tech, Germantown, MD		25		400	500	6	3	3	INIT	IAL				0			5			6			11		Afte	1 Oct	- 14, N	MFR A	fter 1 O		,	
5 Interspiro, Branford, CT		250		1000	1500	0				RDER	1			0			0			0			0		REC		-ADM	IIN LT	Prior 1			
							4	4	INIT					0			3			5			8	8 After 1 Oct - 8, MFR After 1 Oct - 3 0 TOTAL After 1 Oct - 11								
								5	REO	RDER	i.			6			0 14			3			0 17		101	. IL All	1 (11				
							,	,		RDER	l.			0			4			4			8									
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FY 00 / 01 BUDGET PF	אטטוונ	CTION SC	HEDI	II F			P-1 I	tem N	lomer	nclatu		4 0400)) PR(OTECT	rive.	CLO	THIN	IG				Е	ate:			Fe	bruary	1999)		
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			S	PROC	ACCEP	DAT								Cale	ndar `	Year (00							(Calenc	lar Y	ear 01				L
COST ELEMENTS	M F R	FY	E R V	QTY Each	PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A	J U N	J	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	U	J U L	A U G	S E P	A T E R
JSLIST - BOOTS	6	FY 99	J	183302	78000	105302								13000	_										_		-				
JSLIST - BOOTS	7	FY 99	J	183302	13000	170302		13000				13000	13000	13000 1	13000 1	13000	13000	13000	13000	1302					_						
JSLIST - OVERGARMENT	1	FY 99	A	129302	65301	64001				13500																					
JSLIST - OVERGARMENT	2	FY 99	A	55091	3750	51341		3750						3750		3750	3750	3750	3750	2591					_		_				
JSLIST - OVERGARMENT	2	FY 99	N	74145	7750	66395				7750				7750											-		+				
JSLIST - OVERGARMENT	3	FY 99	MC	35446	4000	31446	4000	3200	3200					3200	_	1846									_						
JSLIST - OVERGARMENT	3	FY 99	AF	72620		72620		6561	6561	6561	6561	6561	6561	6561	6561	6561	6561	6561	449								+-				
JSLIST - BOOTS	6	FY 00	J	179583		179583	12000	12000	12000	12000	12000	12000	12000	12000 1	2000	12000 1	12000	12000	12000	12000	11592						+				
JSLIST - BOOTS	7	FY 00	J	179583		179583					_			12000 1	_	_	_	_		_							+				
JSLIST - BOOTS JSLIST - OVERGARMENT	1	FY 00	A	143166	14200	128966								14200 1			12000	12000	12000	12000	11363										
JSLIST - OVERGARMENT JSLIST - OVERGARMENT	2	FY 00	N	77820	7300	70520					_			7300	_	_															
JSLIST - OVERGARMENT JSLIST - OVERGARMENT	3	FY 00	AF	70337	8500	61837					8500			2551	7300	4620											+				
	3	FY 00	MC	35168	4250	30918	4250	4250	4250		4250	4250	4143	1275		_											+				
JSLIST - OVERGARMENT	2				5000	27675	5000	5000	5000			2675	4143	12/5		_									-		+				
JSLIST - OVERGARMENT	2	FY 00	A	32675	5000	2/6/5	5000	5000	5000	5000	5000	26/5			-												+				
JSLIST - BOOTS	6	FY 01	J	126612		126612							A		_							12000	12000	12000	12000	1200	0 12000	12000	12000	12000	18612
JSLIST - BOOTS	7	FY 01	J	126613		126613							Α											_			0 12000		_		18613
JSLIST - OVERGARMENT	1	FY 01	A	114871		114871							Α					13000	13000	13000	13000	13000	13000	13000	13000	1087	1				
JSLIST - OVERGARMENT	2	FY 01	N	77645		77645							A					12000	12000	12000	12000	12000	12000	5645							
JSLIST - OVERGARMENT	3	FY 01	AF	63306		63306							Α	8500	8500	8500	8500	8500	7000	7000	6806										
JSLIST - OVERGARMENT	3	FY 01	MC	31654		31654							Α	4250	4250	4250	4250	4250	4000	4000	2404										
JSLIST - OVERGARMENT	2	FY 01	A	43395		43395							A											7395	12000	1200	0 12000				
							О	N	D	J	F	M	Α	M	J	J	Α	S	О	N	D	J	F	M	Α	М	J	J	Α	S	
							C T	O V	E C	A N	E B	A R	P R	A Y	U N	U	U G	E P	C T	O V	E C	A N	E B	A R	P R	A Y		U	U G	E P	
1							_		C	IN	В	K	K			L		Р			C							L	G	Р	
M		PR	ODUCT	ION RATES			M						_			AD TI				MFR			TOTAL REMARKS After 1 Oct MFR 6 & 7 - TBS MIN-5000, 1-8-5 - 10000, MAX-120 INITIAL - ADMIN LT After 1 Oct - 0 MFR After 1 Oct - 5,								
F NAME / OCATION		MIN		105	MAY	REACHED D+	Nun		INIT	TAI			Pr	ior 1 Oc	t	Aft	er 1 O	ct	Af	ter 1 O	ct	Af									
R NAME/LOCATION 1 Creative Apparel, Belfast, ME		MIN. 6000		1-8-5 8750	MAX. 13000	D+ 0		1		RDER	,			0			0			0											6
2 NISH (El Paso TX/Gary, IN/Belfast, ME)		6000	_	8750	12000	0	:	2	INIT		•			0			8			4			12			AL A	After 1 C		1		
3 TBS		6000		10000	13000	0				RDER				0			0			0			0		MIN	- 500	0, 1-8-5				
4 Geomet Tech, Germantown, MD		25		400	500	6	1	3	INIT					0			5			6			11				- ADM				
5 Interspiro, Branford, CT		250		1000	1500	0			REO	RDER	l			0			0			0			0		TOT	AL A	After 1 C	Oct - 17	7		
							4	4	INIT	IAL				0			3			5			8				R-ADM ct - 8, M				U
									REO	RDER	1			0			0			0			0		TOT	'AL A	After 1 C	Oct - 11	1		
							:	5	INIT	ΊAL				6			14			3			17								
									REO	RDER	1			0			4			4			8		1						

	FY 00 / 01 BUDGET PRO	ODUC	CTION SC	HEDI	ULE			P-1 I	tem N	lomer	nclatu		A 0400)) PR	OTEC	CTIVE	E CLO	THIN	1G				Γ	Date:			Feb	oruary	1999			
												Fi	iscal Y	Year (02									F	iscal `	Year (13	-				
				S	PROC	ACCEP	BAL								Cale	endar	Year	02							(Calenc	lar Ye	ear 03				L A
	COST ELEMENTS	M F R	FY	E R V	QTY Each	PRIOR TO 1 OCT	DUE AS OF 1 OCT	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R		M A Y	J U N	J U L		S E P	T E R
ISI	LIST - BOOTS	6	FY 01	J	126612	108000	18612	12000	6612																						_	
	LIST - BOOTS	7	FY 01	J	126613	108000	18613	12000	-																							
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								O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	
M	1		PRO	ODUCT	ION RATES																MFR			ГОТА		_	MAR					
F							REACHED Number Prior 1 Oct After 1 Oct After 1 Oct After 1 Oct MFR 6										6&7	- TBS														
R	NAME/LOCATION		MIN.		1-8-5	MAX.	D+		1	INIT					0			5			4			9 MIN-5000, 1-8-5 - 10000, MAX-1200 INITIAL - ADMIN LT After 1 Oct - 6								
1	Creative Apparel, Belfast, ME		6000		8750	13000	0				RDER	₹			0			0			0			0				1 Oct - ter 1 O				
3	NISH (El Paso TX/Gary, IN/Belfast, ME) TBS		6000 6000	_	8750 10000	12000 13000	0	2	2	INIT	IAL RDER	,			0			8			4			12		MFR	8 - TI			MAX	- 1500	
4	Geomet Tech, Germantown, MD		25	,	400	500	6	3 INITIAL 0 5 6 11 INITIAL - ADMI After 1 Oct - 14, N										ADMI	N LT I	Prior 1	Oct - 6											
5	Interspiro, Branford, CT		250		1000	1500	0			REO	RDER	ł.			0			0			0			0		TOT	AL Af	ter 1 O	ct - 17			
							4 INITIAL 0 3 5 8 After 1 Oct -									- 8, M	FR Aft															
									-			₹			0			0			0			0		TOT	AL Af	ter I O	ct - 11			
									5	INIT	IAL RDER	?			6			14 4			3			17 8		1						
										KEU.	NULL	`			U			7			7			o								

Ex	hibit P-40, Budge	t Item Justific	cation Sheet					Date:		February 1999		
Appropriation/Budget Activity	y/Serial No: PROCUREMENT DE	FENSE-WIDE/3/	CHEM-BIO DEFE	NSE		P-1 Item Nomen	clature	(N00020) CB RI	ESPIRATORY SY	•	W	
Program Elements for Code B	Items:			Code:	Other Related	Program Elements	:					
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty		1188	1206	1180	1234	692						4312
Gross Cost	0	7.2	7.3	7.3	7.4	4.1	0	0	0	0	0	33.4
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0	7.2	7.3	7.3	7.4	4.1	0	0	0	0	0	33.4
Initial Spares												
Total Proc Cost	0	7.2	7.3	7.3	7.4	4.1	0	0	0	0	0	33.4
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: The Chemical Biological (CB) Respiratory System is an aircrew CB respiratory system for use by the aircrews in Navy and Marine Corps tactical, rotary-wing (Helo), and land-based fixed-wing aircraft.

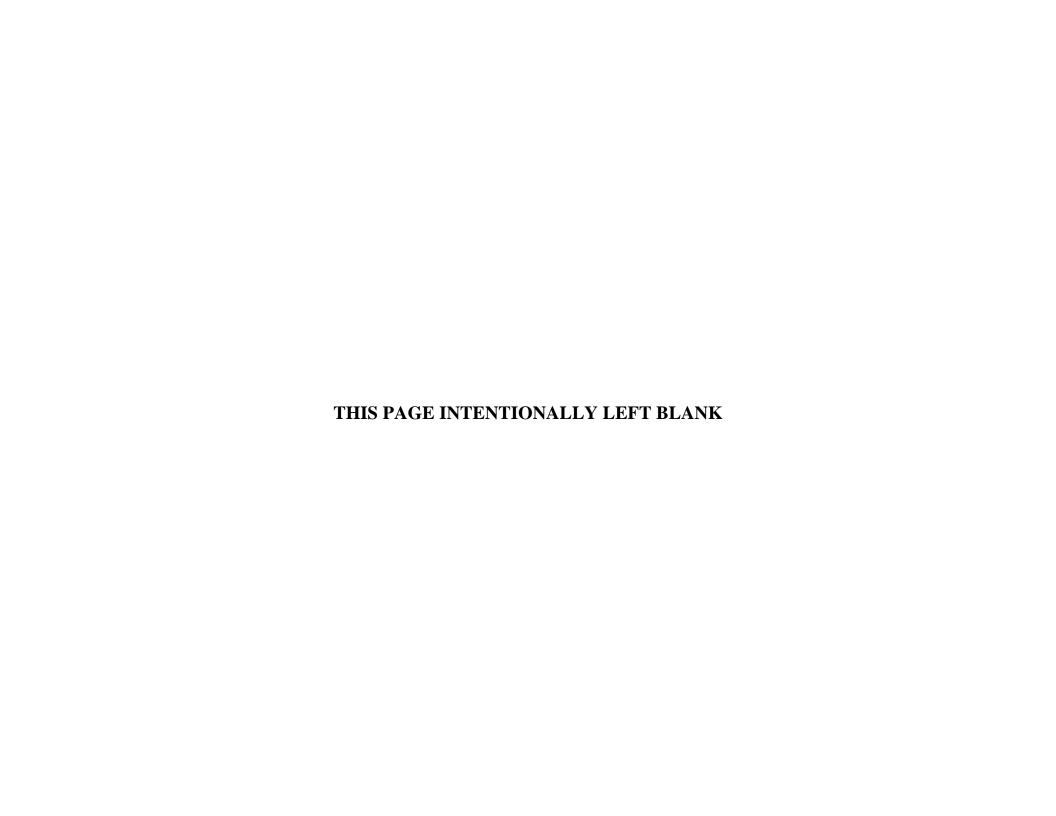
JUSTIFICATION: Navy and Marine Corps tactical and Navy rotary-wing aircrews currently have no respiratory protection against CB warfare agents. This program procures Non-Developmental Items (NDI) respiratory systems to correct this deficiency. FY00/01 procures 1234/692 systems for Navy and Marines, respectively.

Exhibit P-5, Weapon WPN SYST Cost Analysis		Appropriation/B		ity/Serial No.	DIO DEEENSE		tem Nomenclatur	e: SYSTEM - AIRCRE	XX/	Weapon System	Туре:	Date:	1000
	m	PROCUREM		SE-WIDE/3/CHEM-	BIO DEFENSE		B RESPIRATORY	SYSTEM - AIRCRE					uary 1999
Weapon System	ID	m . 10	FY 98	*****	m : 10 :	FY 99	VV 1:0	m - 10	FY 00	vi na n	m . 10	FY 01	wa
Cost Elements	CD	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
		\$000	Each	\$000	\$000	Lacii	\$000	\$000	Eacii	\$000	\$000	Lacii	\$000
C/B Respiratory System Hardware	A	5772	1206	4.79	5659	1180	4.80	5923	1234	4.80	3321	692	4.80
Engineering Support		300			350			300			104		
In-House Support (NAWCAD)		1252			1325			1175			629		
TOTAL		7324			7334			7398			4054		

	Exhibit P-5a, Budget Procurement History	and Planning						Date:	February	1999
Appropriation/Budget Activity/Serial No: PROCUREMENT DEFENSE-WIDE/3/	CHEM-BIO DEFENSE	Weapon Syste	т Туре:		P-1 Line Ite		lature: RESPIRATORY SY:	STEM - AII	RCREW	
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issu Date
CB Respiratory System Hardware FY 98 FY 99 FY 00 FY 01 REMARKS: Options are to FY97 contract awarded in N	Camlock LTD, UK Camlock LTD, UK Camlock LTD, UK Camlock LTD, UK	Option Option Option Option	NAVAIR, Patuxent, MD NAVAIR, Patuxent, MD NAVAIR, Patuxent, MD NAVAIR, Patuxent, MD	Jun-98 Mar-99 Jan-00 Jan-01	Oct-98 Jul-99 May-00 Apr-01	1206 1180 1234 692	4800	Yes Yes		

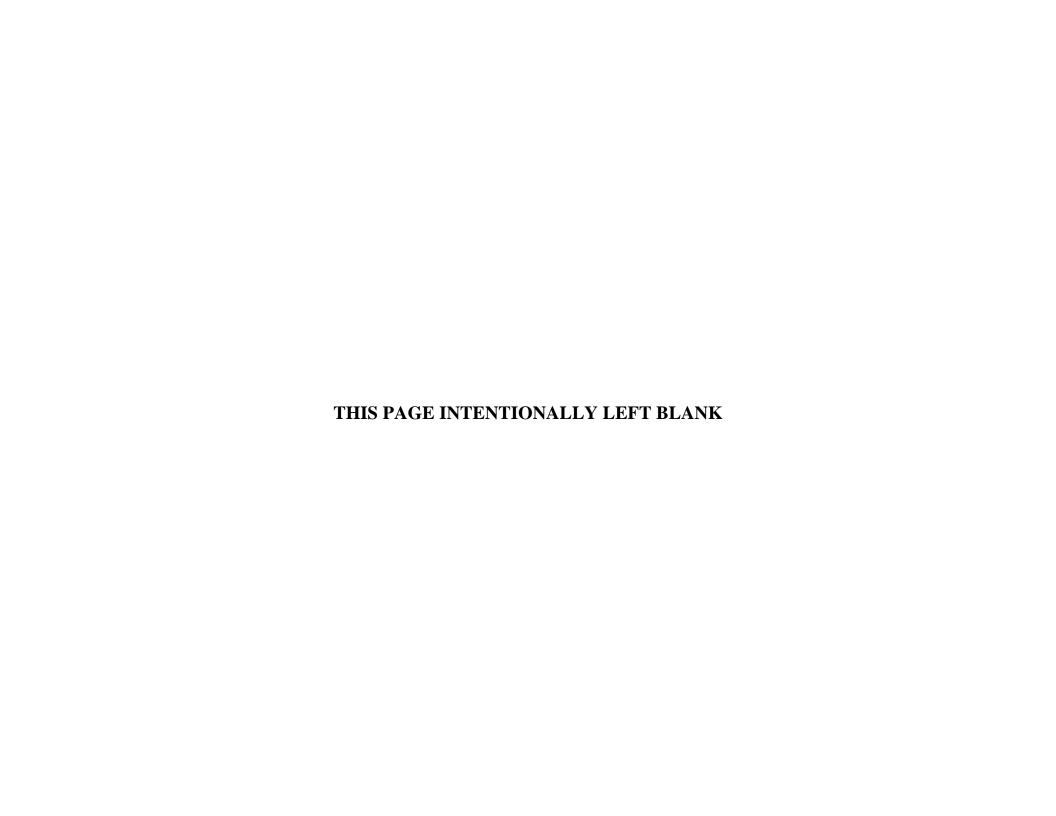
	FY 00 / 01 BUDGET PI	RODU	CTION SC	HEDI	JLE			P-1 I	tem N		nclatur		B RE	ESPIR	ATOI	RY SY	YSTE	EM - A	AIRC	REW			I	Date:			Feb	ruary	1999	1		
				a	ppog	A CCEP	DAY					Fis	scal Y	ear 9		endar `	Year '	98						F		Year 9 Calend		ear 99				L
	COST ELEMENTS	M F R	FY	S E R V	PROC QTY Each	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	O C T	N O V	D E C	J A N	Е	M A R	A P R	M A Y	J U	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	A T E R
СВ	RESPIRATORY SYSTEM HARDWARE	1	FY 97	N	1188	48	1140					140	140	140	150	150	150	150	120													
СВ	RESPIRATORY SYSTEM HARDWARE	1	FY 98	N	1206		1206									A				130	130	130	130	130	130	130	130	130	36			
СВ	RESPIRATORY SYSTEM HARDWARE	1	FY 99	N	1180		1180																		A				110	110	110	850
								O C T	N O V	D E C	J A N	Е	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	
M F			PR	ODUCT	ION RATES		REACHED	Ml Nun						Dei	ADM	MINLE		IME ter 1 O	lat		MFR fter 1 (TOTA		RI	EMAR	KS				
R	NAME/LOCATION		MIN.		1-8-5	MAX.	D+	Nun	l	INIT				FII	0	Ci	All	5	CL	Ai	7	,ci	A	12	OCI							
1	Camlock LTD, UK		28		150	400	0			INIT					0			5			5			10		1						
										INIT																						
										INIT																1						
										INIT																						
										REO	RDER																					

	FY 00 / 01 BUDGET PR	RODUC	CTION SC	HEDI	JLE			P-1 I	tem N			re: 20) C	B RE	SPIR.	АТОІ	RY S	YSTE	EM - A	AIRC	REW			I	Date:			Fel	oruary	1999	1		
				G	ppog	A GGER	D.					Fis	scal Y	ear 0		endar `	Year (00						F		Year (Calend		ear 01				L
cos	ST ELEMENTS	M F R	FY	S E R V	PROC QTY Each	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	O C T	N O V	D E C	J A N		M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P	M A Y	J U N	J U L	A U G	S E P	A T E R
CB RESPIRATOR	RY SYSTEM HARDWARE	1	FY 99	N	1180	330	850	110	110	110	110	110	110	110	80																	
CB RESPIRATOR	RY SYSTEM HARDWARE	1	FY 00	N	1234		1234				A				112	112	112	112	112	112	112	112	112	112	114							
CB RESPIRATOR	RY SYSTEM HARDWARE	1	FY 01	N	692		692																A			110	110	118	118	118	118	
								0	N	Б	т	Б	М	٨	М	T	T	Δ.	c	0	N	D	,	Б	М	۸	M	τ.	τ.	۸	c	
								C T	N O V	D E C	J A N	Е	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R		M A Y	J U N	J U L	A U G	S E P	
M F			PR	ODUCT	ION RATES		REACHED	Ml Nun						Pri	ADM or 1 O	MINLE oct		IME ter 1 O)ct		MFR ter 1 C			ΓΟΤΑΙ fter 1 (RI	EMAR	KS				
R 1 Camlock LTD, U	NAME/LOCATION UK		MIN. 28		1-8-5 150	MAX. 400	D+ 0	1	1	INITI REOI	IAL RDER				0			5 5			7 5			12 10								
			-				-			INITI																						
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										INITI																1						
									-	INITI REOI	IAL RDER																					



Budget Line Item #67

Decontamination



Ex	hibit P-40, Budge	t Item Justific	ation Sheet				I	Date:		February 1999		
Appropriation/Budget Activity	//Serial No: PROCUREMENT DE	FENSE-WIDE/3/	CHEM-BIO DEFE	ENSE		P-1 Item Nomeno	clature	(PA150	00) DECONTAMI	·		
Program Elements for Code B	Items:			Code:	Other Related	Program Elements	:					
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	4.2	0.3	2.6	10.9	10.9	9.5	19.7	19.5	10.8	11.6	Continuing	Continuing
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	4.2	0.3	2.6	10.9	10.9	9.5	19.7	19.5	10.8	11.6	Continuing	Continuing
Initial Spares												
Total Proc Cost	4.2	0.3	2.6	10.9	10.9	9.5	19.7	19.5	10.8	11.6	Continuing	Continuing
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: The goals of decontamination are to provide equipment to facilitate the removal and detoxification of contaminants from materials without inflicting injury to personnel or damage to equipment or environment. This Joint Service program facilitates the procurement of a more transportable, less labor intensive and more effective system for applying decontaminating solutions and removing gross contamination from vehicle and equipment surfaces. Contamination control techniques have been developed which minimize the extent of contamination pickup and transfer and maximize the ability of units to remove contamination both on-the-move and during dedicated decontamination operations. The Modular Decontamination System and Lightweight Decontamination System will provide this capability. Lessons learned from Desert Storm validated the need for a deployable and efficient decontamination system.

JUSTIFICATION: Operational forces, facilities and equipment must be decontaminated to safely operate, survive and sustain operations in a nuclear, biological and chemical agent threat environment. Key factors are reduced weight, increased transportability, decreased labor intensity, reduced water usage and a more effective system for applying decontaminating solutions to vehicle and equipment surfaces. Decontamination of facilities frequently requires a large area to be covered, but weight, water usage and labor intensity factors may not be as important as mobility and the ability to decontaminate large areas rapidly.

Exhibit P-5, Weapon WPN SYST Cost Analysis		Appropriation/B		rity/Serial No.	DIO DEFENCE		Item Nomenclatur			Weapon System	Туре:	Date:	1000
	VD.	PROCUREMI		SE-WIDE/3/CHEIVI-	BIO DEFENSE		DECONTAMINATION	ON					uary 1999
Weapon System	ID		FY 98			FY 99			FY 00			FY 01	
Cost Elements	CD	TotalCost \$000	Qty	UnitCost	TotalCost	Qty	UnitCost \$000	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
Modular Decon System	В				5989			6117			9296		
DE System Fielding Support/Spares		24			63			127			194		
M17 Lightweight Decon System		2598			4847			4676					
TOTAL		2622			10899			10920			9490		

Ext	nibit P-40, Budge	t Item Justific	cation Sheet					Date:		February 1999		
Appropriation/Budget Activity	/Serial No: PROCUREMENT DE	FENSE-WIDE/3/	CHEM-BIO DEFE	NSE		P-1 Item Nomeno	clature	(G47001) I	MODULAR DEC	ON SYSTEM		
Program Elements for Code B	Items:			Code:	Other Related	Program Elements	:					
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty				64	75	124	131	128				522
Gross Cost	0	0	0	6.0	6.1	9.3	9.7	9.5	0	0	0	40.6
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0	0	0	6.0	6.1	9.3	9.7	9.5	0	0	0	40.6
Initial Spares												
Total Proc Cost	0	0	0	6.0	6.1	9.3	9.7	9.5	0	0	0	40.6
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: A Modular Decon System (MDS) includes one XM21 Decontaminant Pumper (DP) module, and two XM22 High Pressure Washer (HPW) modules. The XM21 DP is capable of delivering DS2 or liquid field expedient decontaminants, i.e., formalin, household bleach, and diesel fuel. The XM21 DP may be operated from the ground; when trailer mounted it is capable of drawing the decontaminant directly from a container on the ground. Its accessories include hoses and hose reels, two trigger controlled spray wands, and two electrical powered scrub brush assemblies. The XM22 HPW will provide ambient or heated water at pressures up to 3,000 psi at a rate of 5 gpm with the capability of injecting detergents and providing a high volume flow of (20 gpm) water. Its accessories include hoses and hose reels, trigger controlled spray wands, a shower bar, nozzles and hydrant adapters. The XM22 HPW will be capable of drawing water from natural water sources and delivering it at variable adjustable pressures, temperatures and flow rates. The hydrant adapters will provide connections for using urban water supplies. Associated Support Items of Equipment (ASIOE) includes: 3,000 gallon flexible water tank - 2 each system; a 125 gpm diesel pump - 1 each system; special purpose web - 14 each system and 3/4 ton trailer for each module - 3 each system.

JUSTIFICATION: There are no current systems which provide powered pumping and scrubbing capability for application of decontamination agents such as DS2, formalin, bleach and diesel fuel. The XM21 DP provides first time capability in this area. The XM22 HPW will provide, for the first time, a high pressure hot water capability to chemical companies and may also be used by naval port/air facility decon units. The MDS will be fielded to the dual purpose smoke/chemical companies for the purpose of conducting detailed equipment decontamination, replacing both the M12A1 Skid Mounted Decon Apparatus and, for hasty decontamination, the M17 Lightweight Decontamination System (LDS). Displaced M17 LDS will be cascaded to other non-chemical units to fill unit requirements. Chemical companies can use the MDS to fulfill the decontamination requirements of the initial wash, decontaminant application, and rinse steps of detailed equipment decontamination as described in NBC Decontamination field manuals.

Non-chemical units may be provided the XM22 HPW and its components to be used in hasty decontamination operations. The MDS will be supported by the standard logistics system, maintenance system and standard tools. Earliest possible production is required so that an improved field equipment decontamination capability can be procured and fielded to realize operational benefits to the Army military decontamination mission. FY00 funds production of 75 MDS; FY01 funds production of 124 MDS.

Exhibit P-40C, Budget Item Justification Sheet				Date: February 1999
Appropriation/Budget Activity/Serial No: PROCUREMENT DEFENSE-WIDE/3/CHEM-BIO DEFENSE	₹.		P-1 Item Nomenclature	(G47001) MODULAR DECON SYSTEM
Program Elements for Code B Items: 0603384BP, Project DE4	Code: B	Other Related	Program Elements:	
RDT&E Code B Item				
The MDS provides a first time capability to mechanically apply de-	contamina	nts and prov	ide high pressure hot	water washing.
FY97 and prior - \$6.8 million (RDT&E), FY98 - \$3.9 million (RD	T&E).			
The current development and test status is as follows: Actual Engineering Design Test (EDT) - May 98; Production Qual available - Feb 99. The date for Service approval was Dec 98.	lification T	est (PQT) -	Jul 98; Initial Operati	ional Test and Evalutaion (IOT&E) - May 98; and TDP will be

Exhibit P-5, Weapon		Appropriation/B					tem Nomenclature			Weapon System	Type:	Date:	
WPN SYST Cost Analysis		PROCUREMI		SE-WIDE/3/CHEM-	BIO DEFENSE		ODULAR DECON	SYSTEM					uary 1999
Weapon System	ID		FY 98	** . ~		FY 99			FY 00			FY 01	**
Cost Elements	CD	TotalCost \$000	Qty Each	UnitCost \$000									
		\$000	Lacii	\$000	\$000	Lacii	\$000	\$000	Lacii	φοσο	φ000	Each	\$000
1. Hardware	A												
Decontamination Pumper - 1 per system					1184	64	18.50	1388	75	18.51	2294	124	18.50
High Pressure Washer - 2 per system					1920	128	15.00	2250	150	15.00	3720	248	15.00
2. Engineering Support					707			695			675		
3. Quality Assurance Support					486			386			298		
4. PVT					500								
5. ASIOE													
Water Tank Assembly - 2 per system					307	128	2.40	360	150	2.40	595	248	2.40
Pump, 125 GPM - 1 per system					109	64	1.70	128	75	1.71	211	124	1.70
Trailer, 3/4 ton - 3 per system					749	192	3.90	878	225	3.90	1451	372	3.90
Special Purpose, Web - 14 per system					27	896	0.03	32	1050	0.03	52	1736	0.03
TOTAL					5989			6117			9296		

	khibit P-5a, Budget Procurement Histor	-						l	February	y 1999
Appropriation/Budget Activity/Serial No: PROCUREMENT DEFENSE-WIDE/3/CH	EM-BIO DEFENSE	Weapon Syste	em Type:		P-1 Line Ite	em Nomenc (G4700	lature: 01) MODULAR DECO	ON SYSTE	М	
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issu Date
Decontamination Pumper - 1 per system FY 99	The Centech Gp Inc., Alexandria, VA	Option	SBCCOM	Feb-99	Nov-99	64	18500	No	Feb-99	
FY 00	The Centech Gp Inc., Alexandria, VA	Option	SBCCOM	Dec-99	Aug-00	75	18500	No	Feb-99	
FY 01	The Centech Gp Inc., Alexandria, VA	Option	SBCCOM	Dec-00	Apr-01	124	18500	No	Feb-99	
High Pressure Washer - 2 per system FY 99	The Centech Gp Inc., Alexandria, VA	Option	SBCCOM	Feb-99	Nov-99	128	15000	No	Feb-99	
FY 00	The Centech Gp Inc., Alexandria, VA	Option	SBCCOM	Dec-99	Aug-00	150	15000	No	Feb-99	
FY 01	The Centech Gp Inc., Alexandria, VA	Option	SBCCOM	Dec-00	Apr-01	248	15000	No	Feb-99	

REMARKS: *Development contract included production options.

	FY 00 / 01 BUDGET PR	ODU	CTION SC	HEDI	ULE			P-1 I	tem N	omen	nclatui		001) l	MOD	ULAF	R DEC	CON	SYST	EM				1	Date:			Fel	oruary	1999	1		
												Fis	scal Y	Year 0		endar `	Year	00					ı	F		Year (ear 01				L
	COST ELEMENTS	M F R	FY	S E R V	PROC QTY Each	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	O C T	N O V	D E C	J A N	Е	M A R	A P R	M A Y	J U	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	A T E R
MI	DS .	1	FY 99	A	64		64		12	13	13	13	13																			
MI	DS .	1	FY 00	A	75		75			A				6	6	6	6	6	6	6	6	6	7	7	7							
MI	OS .	1	FY 01	A	124		124															A				10	10	10	10	10	10	64
								O C T	N O V	D E C	J A N	Е	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	
M F			PR	ODUCT	ION RATES		REACHED	Ml Nun						Pri	ADM ior 1 O	MINLE oct		IME ter 1 O	oct	4	MFR fter 1 C			TOTA		Rl	EMAR	KS				
R 1	NAME/LOCATION The Centech Gp Inc., Alexandria, VA		MIN. 6		1-8-5 15	MAX.	D+ 0	j		INITI REOI	IAL RDER				3 1			4			10 5			14 7								
										INITI REOI	IAL RDER																					
										INITI REOI	IAL RDER																					
										INITI																						
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								P-1 I	tem N	lomer	nclatu	ıre:											I	Date:								
	FY 00 / 01 BUDGET PR	ODU	CTION SC	HEDI	JLE							(G47	001)	MOD	ULAF	R DEG	CON	SYST	ГЕМ								Feb	ruary	1999			
												Fi	scal Y	Year 0	2									Fi	iscal `	Year (13					
				S	PROC	ACCEP	BAL								Cale	endar	Year	02							(Calend	lar Y	ear 03				L A
		M	FY	Е	QTY	PRIOR	DUE	О	N	D	J	F	M	A	M	J	J	Α	S	О	N	D	J	F	M	A	M	J	J	A	S	T
	COST ELEMENTS	F R		R V	Each	TO 1 OCT	AS OF 1 OCT	С	О	Е	A	Е	Α	P	A	U	Ü	A U	S E	O C	О	D E	A	Е	A	P	Α	U	U	U	Е	Е
		K		V		1001	1001	T	V	С	N	В	R	R	Y	N	L	G	P	T	V	С	N	В	R	R	Y	N	L	G	P	R
MD	S	1	FY 01	A	124	60	64	10	10	11	11	11	11																			
\vdash																																
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								0	λĭ	Б	Ţ	Г				Ţ	Y		C	0	N.Y	Б		Б				Y	¥		C	
								O C	N O	D E	J A	F E	M A	A P	M A	J U	J U	A U	S E	O C	N O	D E C	J A	F E	M A	A P	M A	J U	J U	A U	S E	
								T	V	C	N	В	A R	R	A Y	N	L	G	P	T	V	C	A N	E B	R	R	A Y	N	L	G	P	
M			PRO	ODUCTI	ON RATES			Ml	FR							AINLE	EAD T	IME			MFR		7	ГОТАІ	L	RI	EMAR	KS				
F							REACHED	Nun						Pri	ior 1 O	ct	Af	fter 1 C	Oct	Af	ter 1 (Oct	A	fter 1 C	Oct							
R	NAME/LOCATION		MIN.	1	1-8-5	MAX.	D+	1	l	INIT					3			4			10			14		-						
1	The Centech Gp Inc., Alexandria, VA		6		15	30	0			INIT	RDER	i.			1			2			5			7		1						
\vdash											RDER															1						
\Box										INIT		-														1						
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										REO	RDER	l .																				

Ext	nibit P-40, Budge	t Item Justific	ation Sheet				I	Date:		February 1999		
Appropriation/Budget Activity.	/Serial No: PROCUREMENT DE	FENSE-WIDE/3/0	CHEM-BIO DEFE	NSE		P-1 Item Nomeno	clature	(JX0003) DE SYS	TEM FIELDING	SUPPORT/SPAR	ES	
Program Elements for Code B	Items:			Code:	Other Related	Program Elements:						
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty											Continuing	
Gross Cost	0	0.3	0.2	0.1	0.1	0.2	0.2	0.2	0.1	0.1	Continuing	Continuing
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0	0.3	0.2	0.1	0.1	0.2	0.2	0.2	0.1	0.1	Continuing	Continuing
Initial Spares												
Total Proc Cost	0	0.3	0.2	0.1	0.1	0.2	0.2	0.2	0.1	0.1	Continuing	Continuing
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: System Fielding Support funds Total Package Fielding (TPF), First Destination Transportation (FDT) and New Equipment Training (NET) for Decontamination Systems. TPF is the standard method of fielding new equipment developed under the CBDP Modernization program. The materiel developer plans, develops, acquires and deploys the materiel systems, including Associated Support Items of Equipment (ASIOE) and Support List Allowance Cards (SLAC) items through a physical handoff to the user. TPF costs include SLAC items, deprocessing, temporary duty (TDY), salaries and managed equipment. FDT funds for transportation required to support shipment of chemical equipment from manufacturing plants and assembly points to the first point of acceptance receipt or storage point by the Government (depot), customer or port. (NOTE: Excludes transportation costs paid by a vendor as prescribed in a procurement contract). The NET process begins very early in the life cycle of a system and provides for the development of the Qualitative and Quantitative Personnel Requirement Information (QQPRI), the NET Plan, and the training courses for trainers to conduct these courses for the proper and safe use of the new equipment.

JUSTIFICATION: Funds will ensure (1) continued uninterrupted shipment of newly procured items to users in support of readiness and training, (2) continued and orderly fielding of Force Modernization Systems, and (3) transfer of knowledge from the materiel developer to the trainer, user, and other support personnel. FY00/01 provides support to the Decon App: Pwr Dr Lt Wt M17A2 and MDS.

Ex	hibit P-40, Budge	t Item Justific	cation Sheet					Date:		Folomore 1000		
Appropriation/Budget Activity	•			NSE		P-1 Item Nomeno	clature	(M67401) N	117 LTWT Decon	February 1999 System (LDS)		
Program Elements for Code B	Items:			Code:	Other Related	Program Elements	:					
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	PY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty	167		115	100	100							315
Gross Cost	4.2	0	2.6	4.8	4.7	0	0	0	0	0	0	16.3
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	4.2	0	2.6	4.8	4.7	0	0	0	0	0	0	16.3
Initial Spares												
Total Proc Cost	4.2	0	2.6	4.8	4.7	0	0	0	0	0	0	16.3
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: The M17 Lightweight Decontamination Systems are compact, engine-driven pump and water-heating units designed to decontaminate equipment. An accessory kit containing hoses, cleaning jets and personnel shower hardware supplements the basic unit. A rubberized fabric, self-supporting, collapsible tank with a capacity of 3,000 gallons is included with the system. During FY00 the Marine Corps will continue to modify M17A1s and M17A3s to M17A4s that use diesel engines.

JUSTIFICATION: The original Decontaminating Apparatus System (A/E 32U-8) was procured as a Non-developmental Item from Karl H. Hoie and Co., Norway. The M17 and M17A1 are improved versions of the A/E 32U-8. These models utilize a sole-source engine that is no longer in production or supportable from the engine manufacturer. The replacement engine has been tested and incorporated into new models, M17A2 and M17A3. Without replacement engines, older systems will need to be scrapped. The Service's ability to perform hasty decontamination will be significantly reduced. In order to meet the one fuel (diesel) forward on the battlefield by 2001, the Marine Corps will procure 100 M17A4's and modify 644 M17A1's and A3's in FY 00.

								INDIVII	DUAL M	ODIFICA	TION]	Date:	F	ebruary 1	999
MODIFICATION TITLE:	M17 Ltw	t Decon S	ystem																		
MODELS OF SYSTEM A	FFECTEI	D: M17 L	twt Decor	n System																	
DESCRIPTION/JUSTIFIC	ATION:																				
M17 Decontaminating engine has been tested	The Modification Kit includes a two-cycle engine manufactured by Cuyuna, Inc. and mounting hardware. These engine modification kits will be used to upgrade older model M17 Decontaminating Apparatus Systems. The M17 utilizes a sole-source engine that is no longer in production or supportable from the engine manufacturer. The replacement engine has been tested and incorporated into new models, M17A2 and M17A3. Without replacement engines, older systems will need to be scrapped. The AF/Army's ability to perform hasty decontamination will be significantly reduced, as this system is currently the only fielded system that fills this requirement.															nent					
DEVELOPMENT STATU	DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:																				
Installation Schedule:																					
installation Schedule.	Pr Yr		FY	1998			FY 1	999			FY 2	2000			FY 2	001			FY 20	002	
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs							150	150	80	120	180	180	180	180	180	180	44				
Outputs								150	150	80	120	180	180	180	180	180	180	44			
		F75.7.	2002			F37.7	2004			F37.6	2005			FX. 0	006			T			TD . 1
	1	FY 2	2003	1	1	FY 2	2004	4	1	FY 2	2005	4	1	FY 2	006	4	C	To complete			Totals
Inputs	1	2	3	4	1	۷	J	4	1	۷	3	4	1	۷	3	4	C	ompiete			1624
Outputs																					1624
METHOD OF IMPLEMEN	NTATION	V:				ADMINI	STRATIV	'E LEAD	TIME:		5 Months			PRODUC	TION LE	EADTIME	i: :	5 Months			
Contract Dates: FY 1999					03/99			FY 2000		12/99				FY 2001							

03/00

FY 2001

FY 2000

Delivery Date:

FY 1999

07/99

INDIVIDUAL MODIFICATION

MODIFICATION TITLE (Cont): M17 Ltwt Decon System

FINANCIAL PLAN: (\$ in Millions)

	FY:	1997																		
	and	Prior	FY I	1998	FY	1999	FY 2	2000	FY 2	2001	FY 2	2002	FY 2	2003	FY	2004	T	`C	TOT	ΓAL
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
PROCUREMENT																				
Kit Quantity			380	0.9	600	2.8	644	2.8											1624	6.5
Installation Kits																				
Installation Kits, Nonrecurring																				
Equipment																				
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY 1997 & Prior Eqpt Kits																				
FY 1998 Eqpt Kits					300		80												380	
FY 1999 Eqpt Kits							480		120										600	
FY 2000 Eqpt Kits									600		44								644	
FY 2001 Eqpt Kits																				
FY 2002 Eqpt Kits																				
FY 2003 Eqpt Kits																				
FY 2004 Eqpt Kits																				
TC Equip-Kits																				
Total Equip-Kits					300		560		720		44								1624	
Total Procurement Cost				0.9		2.8		2.8												6.5

Date:

February 1999

Exhibit P-5, Weapon WPN SYST Cost Analysis		Appropriation/B			DIO DEFENSE		tem Nomenclatur			Weapon System	Type:	Date:	
•		PROCUREME		E-WIDE/3/CHEM-	BIO DEFENSE		M17 LTWT Decon S	ystem (LDS)			ı		ruary 1999
Weapon System	ID		FY 98			FY 99			FY 00			FY 01	
Cost Elements	CD	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Eacn	\$000	\$000	Eacn	\$000	\$000	Each	\$000	\$000	Each	\$000
1. Hardware (M17A3)		1697	115	14.76									
2. Hardware (M17A4, Marine Corps)					1850	100	18.50	1850	100	18.50			
3. PQT					80								
4. Engineering Support/Quality Assurance		32			80								
5. M17 Mod Kit (to M17A3)		832	380	2.19									
6. M17 Mod Kit (to M17A4, Marine Corps)					2663	600	4.44	2789	644	4.33			
7. Mod Kit Eng Support/Quality Assurance		37			44								
8. Technical Manuals					80								
9. FDT Costs					50			37					
TOTAL		2598			4847			4676					

	Exhibit P-5a, Budget Procurement History and	d Planning						Date:	February	1999
Appropriation/Budget Activity/Serial No: PROCUREMENT DEFENSE-WIDE/	3/CHEM-BIO DEFENSE	Weapon Syste	m Type:		P-1 Line It	em Nomenc (M6740	lature: 11) M17 LTWT Decom	System (Ll	DS)	
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
M17 Mod Kit FY 98	AMW CUYUNA ENGINE CO, Beaufort, SC	LP/FP	ACALA, Rock Island, IL	Jun-98	Jan-99	380	2190	No	Jan-98	Mar-98
FY 99 FY 00	TBS TBS	C/FP Option	MARCORSYSCOM, Quantico, VA MARCORSYSCOM, Quantico, VA	Mar-99 Dec-99	Jul-99 Mar-00	600 644	4500 4500	Yes Yes		
M17A3 Lightweight Decon FY 98	RIA, Rock Island, IL	LP/FP	ACALA, Rock Island, IL	Jan-98	Jan-99	115	14760	Yes		
M17A4 Lightweight Decon FY 99	TBS	C/FP	MARCORSYSCOM, Quantico, VA	Apr-99	Jul-99	100	18500	Yes		
FY 00	TBS	Option	MARCORSYSCOM, Quantico, VA	Jan-00	Apr-00	100	18500	Yes		

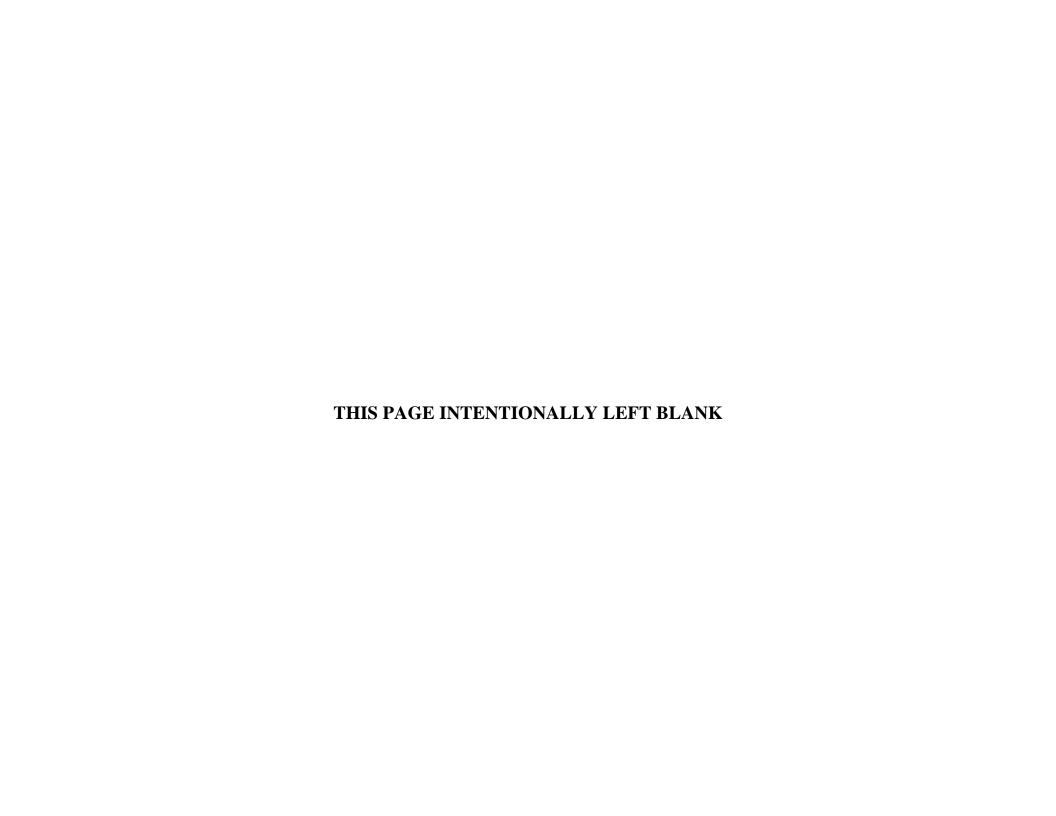
REMARKS:

FY 00 / 01 BUDGET F	PRODU	CTION SC	HED	ULE			P-1 l	Item N	Nomei			101) N	И17 L	LTWT	Deco	on Sys	tem (I	LDS)				D	ate:			Feb	ruary	1999			
											Fi	iscal Y	Year 9	98								•	Fi	iscal`	Year 9	19					
			S	PROC	ACCEP	BAL								Cale	endar	Year 9	98	_						(Calenc	lar Ye	ar 99				L A
COST ELEMENTS	M F R	FY	E R V	QTY Each	PRIOR TO 1 OCT	DUE AS OF 1 OCT	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	U		T E R
M17A3	1	FY 96	A	109	38	71							15	15					15	15	11										_
M17A3	1	FY 98	N	42		42				A												15	15	12							
M17A3	1	FY 98	A	73		73				A														3	15	15	15	15	10		
M17A4	2	FY 99	МС	100		100																			A			25	25	25	25
																															_
																															_
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	U	S E P	
М		PR	ODUCT	ION RATES			М									EAD TI				MFR			OTAI		RE	EMARI	KS				
F R NAME/LOCATION		MIN.		1-8-5	MAX.	REACHED D+			INIT	TAL			Pı	rior 1 C	Oct	Aft	ter 1 O	ct	Af	fter 1 O	ct	Aft	ter 1 C	Oct							
1 RIA, Rock Island, IL		5		15	30	0			REO	RDER	t .			0			3			13			16		1						
2 TBS		15		30	45	0	:	2	INIT	TAL RDER	,			0			6			4			10 7		-						
									INIT					U			ر			7			,		1						
									REO INIT	RDER	l														-						
										IAL RDER	t														1						
									INIT																						
									KEO	RDER	i.																				

	FY 00 / 01 BUDGET PRO	ODU	CTION SC	HEDI	JLE			P-1 I	tem N	omen		re: M674	01) M	И17 L	TWT	Deco	on Sys	stem (LDS))			1	Date:			Fe	bruary	1999)		
														Year ()	00	endar								F		Year Calen		ear 01				L
	COST ELEMENTS	M F R	FY	S E R V	PROC QTY Each	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N		М	A P	M	J U N	J U L	A U G	S E P	A T E R
M1	7A4	2	FY 99	МС	100	75	25	25																								
M1	7A4	2	FY 00	МС	100		100				A			25	25	25	25															
																									\perp	\perp		\vdash				
								О	N	D	J	F	М	۸	М	T	T	٨	c	О	N	D	J	E	M	Δ.	M	J	J	A	c	
								C T	N O V	D E C	A N		M A R	A P R	M A Y	J U N	J U L	A U G	S E P	C T	O V	D E C	A N	F E B	M A R	P	A Y	U N		U G	S E P	
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Budget Line Item #68

Joint Biological Defense Program



Exh	nibit P-40, Budge	t Item Justific	cation Sheet					Date:		February 1999		
Appropriation/Budget Activity/	/Serial No: PROCUREMENT DE	FENSE-WIDE/3/	CHEM-BIO DEFE	NSE		P-1 Item Nomeno	clature	(MA0800) JC	DINT BIO DEFEN	SE PROGRAM		
Program Elements for Code B I	Items:			Code:	Other Related	Program Elements	:					
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	22.0	32.8	63.1	41.6	99.6	99.4	120.6	110.4	142.8	149.7	Continuing	Continuing
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	22.0	32.8	63.1	41.6	99.6	99.4	120.6	110.4	142.8	149.7	Continuing	Continuing
Initial Spares												
Total Proc Cost	22.0	32.8	63.1	41.6	99.6	99.4	120.6	110.4	142.8	149.7	Continuing	Continuing
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: The detection component of the Joint Biological Defense Program consists of the following: (1) the land-based Biological Integrated Detection System (BIDS), (2) the airborne Long Range Biological Stand-off Detection System (LR-BSDS), (3) the sea-based Interim Biological Agent Detector (IBAD), (4) the land-based Joint Biological Point Detection System (JBPDS), (5) the Critical Reagent Program (CRP), and (6) the Air/Base Port (Portal Shield) ACTD system. BIDS is a biological detection suite employing complementary technologies to detect a limited number of agents used in large area Biological Warfare (BW) attacks, installed in a S-788 Lightweight Multipurpose Shelter mounted on a dedicated vehicle (Heavy HMMWV). The LR-BSDS NDI is a helicopter mounted, long range, large area, stand-off aerosol detector, tracker and mapper system which employs Light Detection and Ranging (LIDAR) technology to detect aerosol clouds at ranges up to 30 km. The IBAD is a shipboard-mounted point detection system consisting of a sampler, particle counter, and antibody/antigen tickets. The JBPDS is a detection suite consisting of complementary trigger, sampler, detector and identification technologies to detect and identify the full range of biological agents in real-time. The JBPDS will provide a common point detection capability for all Services and meet the Service requirements as outlined in the Joint Operational Requirements Document (JORD). The JBPDS is programmed to replace the BIDS and the IBAD and to provide the Marines and Air Force an initial detection capability. The CRP integrates and consolidates all DoD reagents/antibodies/DNA biological detection requirements (Program Definition and Risk Reduction (PDRR) through production). The CRP will ensure the availability of high quality reagents throughout the life cycle of all systems to include BIDS, JBPDS, Airbase/Port ACTD, Joint Biological Remote Early Warning System (JBREWS) and medical diagnostic kits. The Air/Base Port (Portal Shield) ACTD system is comprised o

products to include: program definition and risk reduction, advanced development, licensure by the Food and Drug Administration (FDA), production, stockpiling, testing, distribution and maintenance of a comprehensive database. Vaccines and defense medical products to be produced under this program include: botulinum vaccines, ricin vaccine, staphylococcal enterotoxin B (SEB) vaccine, Venezuelan Eastern Encephalitis (VEE) vaccine, combined VEE/Eastern Equine Encephalitis (EEE) /Western Equine Encephalitis (WEE) vaccine, plague vaccine, brucellosis vaccine, vaccinia vaccine, tularemia vaccine, and Q-fever vaccine. The currently licensed Anthrax vaccine will be procured through the manufacture, MBPI. Current direction is to provide 2.4M Troop Equivalent Doses (TED) against the two highest biological warfare (BW) threat agents and 0.3M TED against the other BW agents.

JUSTIFICATION: During Operation Desert Storm (ODS), a major deficiency identified was the inability of U.S. forces to effectively detect and identify Biological Warfare (BW) agents. Current national military strategy specifies a worldwide force projection capability that requires BW detection in order to protect the force against potential threats. Operational forces, across the continuum of global, contingency, special operations/low intensity conflict, counternarcotics and other high risk missions, have the immediate need to survive and sustain operations in a biological agent threat environment. Operating forces have a critical need for defense from worldwide proliferation of BW capabilities and medical treatment of BW related casualties. The Joint Biological Defense Program will provide a tiered strategy for detection and warning comprised of complementary detection/identification systems to provide theater protection against a large area and point attacks. The other biological defense mission requirement is to provide U.S. forces with enhanced survivability and force protection through the introduction of FDA approved vaccines to protect against current and emerging threats which could be deployed against maneuver units or stationary facilities in the theater of operations.

Exhibit P-5, Weapon WPN SYST Cost Analysis		Appropriation/B		rity/Serial No.	DIO DECENCE		Item Nomenclatur JOINT BIO DEFEN			Weapon System	Type:	Date:	1000
· ·	ID	PROCUREME		SE-WIDE/S/CHEIVI-	BIO DEFENSE		JOINT BIO DEFEN	SE PROGRAM	F11.00				uary 1999
Weapon System		m . 10	FY 98	W 1.0	m - 10 -	FY 99	**	m . 10	FY 00	VV. 1:00	m . 10	FY 01	*****
Cost Elements	CD	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
		\$000	Eacn	\$000	\$000	Eacn	\$000	\$000	Eacn	\$000	\$000	Eacn	\$000
Joint Bio Point Detection System								48406			53935		
Critical Reagent Program					1746			2432			1923		
Long Range Bio Standoff Det Sys								1923			11807		
Portal Shield Equipment					13936			3909			3903		
DoD Biological Vaccine Program		25685			10990			23424			27810		
Bio Integrated Detector System (BIDS)		37371			14900			19479					
TOTAL		63056			41572			99573			99378		

Ex	hibit P-40, Budge	t Item Justific	cation Sheet				1	Date:		February 1999		
Appropriation/Budget Activity	y/Serial No: PROCUREMENT DE	FENSE-WIDE/3/	CHEM-BIO DEFE	NSE		P-1 Item Nomeno		JP0100) JOINT BIO			3PDS)	
Program Elements for Code B	Items:			Code:	Other Related	Program Elements	:					
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty					104	140	169	167	120	130	Continuing	Continuing
Gross Cost	0	0	0	0	48.4	53.9	62.1	62.3	44.3	46.0	Continuing	Continuing
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0	0	0	0	48.4	53.9	62.1	62.3	44.3	46.0	Continuing	Continuing
Initial Spares												
Total Proc Cost	0	0	0	0	48.4	53.9	62.1	62.3	44.3	46.0	Continuing	Continuing
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: The Joint Biological Point Detection System (JBPDS) provides continuous, rapid and fully automated collection, detection and identification of biological warfare agents (BWA). The system can be controlled and monitored locally and remotely, and automatically interfaces with global positioning, meteorological and communication systems. It is fully hardened and configured for a variety of service designated mobile platforms and battle spaces, including surface ships, wheel vehicles, fixed-sites and man portable applications. The JBPDS's four configuration specific nomenclatures are XM95 Fixed Site, XM96 Man Portable, XM97 Shelter Vehicle, and XM98 Ship. Biological Integrated Detection System (BIDS) platform, XM31E2, will be fitted to accept the XM97 JBPDS. The JBPDS provides both: (1) a means to limit the effects of BWA attacks and the potential for catastrophic effects to U.S. forces and (2) assistance to medical personnel in determining effective preventive measures, prophylaxis, and the appropriate treatment if exposure occurs. It is a first time defense capability for the US Marine Corps and US Air Force and replaces interim capabilities for the US Navy (IBADS) and US Army (BIDS NDI and BIDS P3I). Current national military strategy specifies a worldwide force projection capability that requires detection, identification, and vaccination in order to protect U.S. forces against potential BWA threats. JBPDS meets the Joint Chief's urgent need to enhance the survivability of U.S. forces and support the Office of the Undersecretary of Defense (Acquisition) mission areas #220; #225; and #276. Complete fielding of 2044 JBPDSs (113 US Marine Corps, 997 US Air Force, 320 US Navy, and 614 US Army), by FY05 is needed to satisfy Joint Operational Requirement Document, Serial Number 445-86-96. The JBPDS replaces interim systems that are dependent upon accurate intelligence, suspicious munitions or events, time consuming laboratory analysis, or the onset of illness among U.S. forces before a biological attack can be detected, and do not always provide operational commands a reliable means to effectively mitigate the possible effects of a BWA attack. The Engineering and Manufacturing Development (EMD) JBPDS prototype fully integrates a wetted wall cyclone collector (WWC), aerosol particle size (APS) counter, flow cytometer (FCM), fluid transfer system (FTS) and automated hand held assay (AHHA) reader into a biological sensor suite. The sensor suite, which is operated by two on-board controllers and a touch-pad screen display, also includes commercial telemetry, global positioning, meteorological and network modem devices. The basic suite weighs 321 lbs. and measures 38"Wx42"Hx22"D, while the portable suite weighs 211 lbs. and measures 33"Wx31"Hx32"D. The EMD JBPDS prototype also integrates a power conditioner, uninterruptable power supply, air cooler and heater into an external control unit (ECU) for stand-alone use on fixed-site and man portable platforms. The basic unit's ECU weighs 467 lbs. and measures 30"Wx30"Hx22"D, while the portable unit's ECU weighs 306 lbs. and measures 27"Wx27"Hx30"D.

JUSTIFICATION: FY00 will procure JBPDS as follows: 29 Fixed Site configured JBPDS, 12 each for Navy and 17each for Air Force; 51 Man Portable configured JBPDS, 10 each for Air Force, 10 each for Army Special Operations Force and 31 each for Marine Corps; 17 Sheltered Vehicle configured JBPDS for Army; and 7 Ship Board configured JBPDS for Navy. FY01 continues procurement of the aforementioned systems as follows: 48 Fixed Site configured JBPDS for Air Force; 32 Man Portable configured JBPDS, 19 each for Air Force, 5 each for Army Special Operations Force and 8 each for Marine Corps; 48 Sheltered Vehicle configured JBPDS, 40 each for Army, and 8 each for Marine Corps; and 12 Ship Board configured JBPDS for Navy. A total of 830 systems will be procured.

Exhibit P-40C, Budget Item Justification Sheet				Date: February 1999
Appropriation/Budget Activity/Serial No:	,	P-1	1 Item Nomenclature	(JP0100) JOINT BIO POINT DETECTION SYSTEM (JBPDS)
PROCUREMENT DEFENSE-WIDE/3/CHEM-BIO DEFENSE	5			(JI 0100) JOHNI BIO I OHNI BETECHON STSTEM (JBI DS)
Program Elements for Code B Items:	Code:	Other Related Progr	gram Elements:	
0604384BP, Project BJ5	В			

RDT&E Code B Item

The JBPDS provides a first time capability to automatically collect, detect and identify the presence of all Category A Biological Warfare Agents, as listed by the International Task Force-6 report, dated Feb 90.

FY97 and prior - \$11.8 million; FY98 - \$25.6 million; FY99 - \$29.8 million, FY00 - \$7.0, FY01 - \$6.3, FY02 - \$22.5, FY03 - \$29.7, FY04 - \$14.3

The current development and test status is as follows:

Engineering Design Test (EDT) - Mar - May 99; Production Qualification Test (PQT) - Jun - Oct 99; Initial Operational Test and Evaluation (IOT&E) - Feb - Apr 00; and Performance Based Technical Data Package (TDP) will be available - Nov 99. The projected date for Quad-Service acceptance and Milestone Decision Authority approval is Jun 00.

Remarks: Formal government testing will be performed concurrently on the XM95, XM96, XM97 and XM98.

Exhibit P-5, Weapon		Appropriation/B					tem Nomenclatur			Weapon System	Туре:	Date:	
WPN SYST Cost Analysis		PROCUREM	ENT DEFENS	SE-WIDE/3/CHEM-	BIO DEFENSE	(JP0100) JC	DINT BIO POINT D	ETECTION SYSTE	M (JBPDS)			Febr	uary 1999
Weapon System	ID		FY 98			FY 99			FY 00			FY 01	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
1. Hardware (Integrated Suite of Components)													
XM95 Fixed Site	В							11822	29	407.66	18305	48	381.35
XM96 Man Portable	В							17154	51	336.35	10069	32	314.66
XM97 Shelter Vehicle	В							6745	17	396.76	17816	48	371.17
XM98 Ship	В							2925	7	417.86	4691	12	390.92
2. Platform - On-Site Installation & Check-out (I&C)													
XM95 Fixed Site - Mech/ Elect & Data Hook-up								170	17	10.00	432	48	9.00
XM96 Man Portable - Elect & Data Hook-up								102	51	2.00	58	32	1.81
XM97 Shelter Vehicle - Mech/Elect & Data Hook-up								170	17	10.00	432	48	9.00
XM98 Ship - Mech/Elect & Data Hook-up								420	7	60.00	648	12	54.00
3. Additional Support Items of Equipment (ASIOE)													
2 KW Generator 1 per Man Portable JBPDS								204	51	4.00	128	32	4.00
M42 Alarm								192	80	2.40	196	80	2.45
NATO Slave Cable, 1 per Man Portable & Shelter Vehicle JBPDS								72	48	1.50	130	80	1.63
4. First Article Tests								949					
5. Non-Recurring Engineering								5190					
6. Technical Manuals								847					
7. Quality Control/Eng Support								1444			1030		
TOTAL								48406			53935		

EXHIBIT F	-5a, Budget Procurement History								February	1999
Appropriation/Budget Activity/Serial No: PROCUREMENT DEFENSE-WIDE/3/CHEM-BIO	DEFENSE	Weapon Syste	m Type:		P-1 Line Ite		lature: BIO POINT DETECT	ION SYST	EM (JBPDS	5)
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
XM95 Fixed Site (with Platform I&C & ASIOE) FY 00 FY 01 XM96 Man Portable (with Platform I&C & ASIOE) FY 00 FY 01 XM97 Shelter Vehicle (with Platform I&C & ASIOE) FY 00 FY 01 XM98 Ship (with Platform I&C & ASIOE) FY 00 FY 01	TBS TBS TBS TBS TBS TBS TBS TBS	C/FPM-5(1) C/FPM-5(2) C/FPM-5(1) C/FPM-5(1) C/FPM-5(2) C/FPM-5(2)	SBCCOM, APG, MD SBCCOM, APG, MD	Jun-00 Dec-00 Jun-00 Dec-00 Jun-00 Dec-00 Dec-00	Jun-01 Oct-01 Mar-01 Oct-01 Mar-01 Oct-01	29 48 51 32 17 48 7	420060 392800 346250 324550 409160 384250 480260 449000	No No No No No	Nov-99 Nov-99 Nov-99 Nov-99 Nov-99 Nov-99	Nov-99 Nov-99 Nov-99 Nov-99 Nov-99
REMARKS: Components of End Item (COEI) for each configuration in the control of the configuration in the configur	Cytometer Flow Trigger Operator Operator Trigger Operator Operator		ower Environmental Telemetry/ onditioner# Control Unit# MET/GPS x							

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XM98	1	FY 01	N	12		12															Α										12
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Ex	hibit P-40, Budge	t Item Justific	cation Sheet					Date:		February 1999		
Appropriation/Budget Activity	y/Serial No: PROCUREMENT DE	FENSE-WIDE/3/	CHEM-BIO DEFE	NSE		P-1 Item Nomen	clature	(JPO210) CRITI	CAL REAGENTS	•	P)	
Program Elements for Code B	Items:			Code:	Other Related	Program Elements	:					
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty				78	78	45	16	16	16	16	Continuing	Continuing
Gross Cost	0	0	0	1.7	2.4	1.9	1.9	2.0	1.9	1.9	Continuing	Continuing
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0	0	0	1.7	2.4	1.9	1.9	2.0	1.9	1.9	Continuing	Continuing
Initial Spares												
Total Proc Cost	0	0	0	1.7	2.4	1.9	1.9	2.0	1.9	1.9	Continuing	Continuing
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: Critical reagents are required for the detection and identification of biological warfare (BW) agents. Multiple medical and non-medical platforms require a continuous, quality supply of critical reagents for effective warning which significantly enhances force survivability. They are also required for rapid medical diagnosis and treatment of exposed personnel. The Services must avoid the Gulf War Dilemma of multiple sensors giving multiple results on the same incident. A common set of reagents for all platforms is required. The Critical Reagent Program (CRP) will ensure the quality and availability of reagents that are critical to the successful development, test and operation of biological warfare detection systems and medical biological products. The CRP integrates and consolidates all DoD reagents/antibodies/DNA biological detection requirements (PDRR through production). The CRP will ensure the availability of high quality reagents, Hand Held Immunochromatographic Assays (HHA), throughout the life cycle of all systems managed by the Joint Program Office for Biological Defense to include BIDS, IBADS, JBPDS, Airbase/Port Advanced Concepts Technology Demonstration (ACTD), and the Joint Biological Remote Early Warning System (JBREWS). The CRP also supports the Navy Forward deployed Lab, the Theater Army Medical Lab (TAML), the Army Technical Escort Unit (TEU), the Marine Corps Chemical-Biological Incident Response Force (CBIRF), other counter-terrorist and special reconnaissance teams, and foreign countries. The CRP is also responsible for the production of Hand Held Immunochromatographic Assays (HHA).

JUSTIFICATION: FY 00 procurement will be 78 grams of antibody per threat agent for six agents; this is enough to support the 10 million assay requirement for FY 00; produce 32,000 gene probe/primer assays to meet operational requirements; and produce 1080 mg of antigen for the production of 6 new antibody based assays. FY 01 funds procure 45 grams antibody, 20000 gene probe/primer assays, and 1080mg of antigen for the production of antibody assays.

Exhibit P-40C, Budget Item Justification Sheet				Date: February 1999
Appropriation/Budget Activity/Serial No:			P-1 Item Nomenclature	
PROCUREMENT DEFENSE-WIDE/3/CHEM-BIO DEFENSI	Ξ			(JPO210) CRITICAL REAGENTS PROGRAM (CRP)
Program Elements for Code B Items:	Code:	Other Related	Program Elements:	
0604384BP, Project BJ5	В			

RDT&E Code B Item

The Critical Reagent Program (CRP) will ensure the quality and availability of reagents that are critical to the successful development, test and operation of biological warfare detection systems and medical biological products.

FY98-\$2.6; FY99-\$3.9M; FY00-\$3.0M; FY01-\$1.1M; FY02-\$1.1M; FY03-\$1.2M; FY04-\$1.1M; FY05-\$1.2M

FY98-Produced reagents in support of testing and development of the Portal Shield, the BIDS P3I, and the JBPDS. Established a limited prototype production line for HHAs. Provided HHAs in support of Operation Desert Thunder, to support the Army's BIDS, the Navy's IBAD and 2 foreign militaries. Began planning and budgeting for an antibodygene probe and primer repository at ERDEC and an agent/interferent repository at DPG.

FY99-Develop 4-5 new antibody based reagents to support the development of the Airbase/Port (Portal Shield) and Joint Biological Point Detection System (JBPDS) Block I.

FY00-Develop traditional antibodies against 4-5 threat agents, recombinant antibodies against 1 agent and gene/probes/primers against 3 agents in support of JPO-BD managed Bio defense systems.

FY01-Develop antibodies against 4 agents, recombinant antibodies against 1 agent, and gene probe/primers for 3 agents in support of JPO-BD managed programs.

Exhibit P-5, Weapon		Appropriation/B					tem Nomenclatur			Weapon System	Type:	Date:	
WPN SYST Cost Analysis		PROCUREMI		SE-WIDE/3/CHEM-	BIO DEFENSE		RITICAL REAGEN	TS PROGRAM (CR					uary 1999
Weapon System	ID		FY 98			FY 99			FY 00			FY 01	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
Antibodies (grams)					1120	78	14.36	1167	78	14.96	720	45	16.00
Gene Probes and Primers (per thousand assays)								471	32000	0.01	320	20000	0.02
Target Agents (milligrams)					308	1080	0.29	263	890	0.30	333	1080	0.31
Production Support					37			50			50		
Repository Costs					281	1	281.00	481	2	240.50	500	2	250.00
TOTAL					1746			2432			1923		

	Exhibit P-5a, Budget Procurement History a	and Planning						Date:	February	1999
Appropriation/Budget Activity/Serial No: PROCUREMENT DEFENSE-WI	IDE/3/CHEM-BIO DEFENSE	Weapon Syste	ет Туре:		P-1 Line It	em Nomenc	lature:	PROGRA!	M (CRP)	
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Anti-bodies*										
FY 99	National Micrographics Systems, Silver Spring, MD	C/FFP	Fort Detrick, MD	Jan-99	Jun-99	78	14360	Yes		
FY 00	TBS	TBD	Fort Detrick, MD	Oct-99	Jan-00	78	14960	Yes		
FY 01	TBS	TBD	Fort Detrick, MD	Oct-00	Jan-01	45	16000	Yes		
Gene Probe/Primers**										
FY 00	TBS	C/FFP	JPO-BD	Oct-99	Jan-00	32000	10	No		
FY 01	TBS	C/FFP	Fort Detrick, MD	Oct-00	Jan-01	20000	20	No		
Target Agents***										
FY 99	US Army Dugway Proving Ground (DPG) UT	C/FFP	Fort Detrick, MD	Oct-98	Dec-98	1080	290	Yes		
FY 00	US Army Dugway Proving Ground (DPG) UT	C/FFP	Fort Detrick, MD	Oct-99	Dec-99	890	300	Yes		
FY 01	US Army Dugway Proving Ground (DPG) UT	C/FFP	Fort Detrick, MD	Oct-00	Dec-01	1080	310	Yes		
	6.00.00 (2.1.0) 0.1									

REMARKS:

^{*}Anti-body quantities are in grams.

**Gene probe/primers quantities are in thousands-assays.

*** Target Agent quantities are in milligrams

	FY 00 / 01 BUDGET PRO	אומכ	CTION SC	HEDI	II F			P-1 I	tem N				RITIO	CALI	REAC	ENT	S PR	OGR <i>i</i>	AM (CRP)			I	Date:			Fel	oruary	1999			
	11 007 01 B050211110	5000	711011 00							`				Year 9	8	endar `				,				F		Year 9	99	ear 99				L
	COST ELEMENTS	M F R	FY	S E R V	PROC QTY Each	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	A T E R
AN	TI-BODIES	1	FY 99	J	78		78																A					4	8	12	12	42
_	RGET AGENTS	2	FY 99	J	1080		1080													A		135	135	135	135	135	135	135	135			
								O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	
M			PRO	ODUCT	ION RATES			M								MINLE					MFR			TOTA			EMAR					
F R	NAME/LOCATION		MIN.		1-8-5	MAX.	REACHED D+	Nun		INIT	IAL			Pri	ior 1 O	ect	Af	ter 1 O	ct	Af	fter 1 C	Jct	A	fter 1 (Jct			elivery n gram		-bodies	18	
1			4		12	16	0				RDER				0			0			6			6		1						
2	DPG, Dugway, UT		50		135	175	0	2	2	INIT					0			0			3			3		-						
										INIT	RDER				0			0			3			3		1						
											RDER															1						
										INIT																1						
											RDER															4						
										INIT	IAL RDER															1						
										KEU	KUEK																					

	FY 00 / 01 BUDGET PRO	ODU	CTION SC	HEDI	ULE			P-1 I	tem N				CRITI	CAL 1	REAC	SENT	S PR	OGR	AM (CRP)]	Date:			Fel	oruary	1999			
												Fi	iscal Y	Year 0		endar `	Vaar	00	ì					F		Year Calan		ear 01				L
	COST ELEMENTS	M F R	FY	S E R V	PROC QTY Each	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L		S E P	A T E R
AN	VTI-BODIES	1	FY 99	J	78	36	42	12	12	18																						
GE	VTI-BODIES ENE PROBE/PRIMERS ARGET AGENTS	1 4 5	FY 00 FY 00 FY 00	J J	78 32000 890		78 32000 890	A A A		135	4 4000 135		12 4000 135	12 4000 135	12 4000 135	12 4000 80	10 4000	8 4000														
AN	VTI-BODIES	1	FY 01	J	45		45													A			1	8	8	8	8	8	4			
	ENE PROBES/PRIMERS RGET AGENTS	5	FY 01 FY 01	J	20000 1080		20000 1080													A		135	3000 135	_	3000 135	_	3000 135	_	2000 135			
								O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	
M F					ION RATES		REACHED	Mi Nun	nber					Pri	or 1 O	/IINLE		ter 1 O)ct		MFR fter 1 (TOTA fter 1		Moi				-bodies	is	
1 2	NAME/LOCATION National Micrographics Systems, Silver Spring, MD DPG, Dugway, UT		MIN. 4 50		1-8-5 12 135	MAX. 16 175	D+ 0 0	2		INITI REOI	RDEF	t .			0 0			0 0			6 6 3			6 6 3		illea	sureu i	n gram	5.			
										INIT	IAL				0			0			3			3								
										REOI INITI REOI	IAL																					
										INITI REO		2																				

Ex	hibit P-40, Budge	t Item Justific	cation Sheet					Date:		February 1999					
Appropriation/Budget Activity		FENSE-WIDE/3/	JPO220) LONG RAN		•	RBSDS)									
Program Elements for Code B	Items:	3 3 0 0 0 1.9 11.8 11.9 0 0 0 0 0 0 25.6 0 0 0 0 1.9 11.8 11.9 0 0 0 0 0 0 25.6													
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog			
Proc Qty						3	3					6			
Gross Cost	0	0	0	0	1.9	11.8	11.9	0	0	0	0	25.6			
Less PY Adv Proc															
Plus CY Adv Proc															
Net Proc (P-1)	0	0	0	0	1.9	11.8	11.9	0	0	0	0	25.6			
Initial Spares															
Total Proc Cost	0	0	0	0	1.9	11.8	11.9	0	0	0	0	25.6			
Flyaway U/C															
Wpn Sys Proc U/C															

DESCRIPTION: The Counterproliferation (CP) Long Range Biological Standoff Detection System (LRBSDS), XM94E1, is a helicopter-mounted, long-range, large-area standoff aerosol detector, tracker and mapper system. The system employs Light Detection and Ranging (LIDAR) technology which detects aerosol clouds at ranges up to 50 km or more. The detector has three major components: a pulsed-infrared laser transmitter, a receiving telescope and an information processor integrated into a frame.

JUSTIFICATION: The CP-LRBSDS, XM94E1, provides commanders with an effective system to detect the presence of a BW aerosol at a standoff distance and provide advanced warning to U.S. forces. Advanced warning will provide commanders with adequate decision time to mitigate the potential effects of a BW attack. The primary purpose of the CP-LRBSDS is to limit the effects of large area coverage biological agent attacks which have the potential for catastrophic effects to U.S. forces at the operational level of war. The XM94 was fielded in FY97 to meet the interim requirements for LRBSDS. The XM94E1 will replace the XM94 and will improve performance and meet the CP-LRBSDS objective requirements with longer detection range, an eye-safe transmitter, automatic discrimination of aerosol clouds, stabilized platform and a reduction from two operators to one. FY00 will procure diodes for laser to be used in FY01 and FY02 CP-LRBSDS. FY 01 funding procures 3 CP-LRBSDSs, equipment for training, additional support items and spare parts.

Exhibit P-40C, Budget Item Justification Sheet				Date: February 1999
Appropriation/Budget Activity/Serial No: PROCUREMENT DEFENSE-WIDE/3/CHEM-BIO DEFENSE			P-1 Item Nomenclature	(JPO220) LONG RANGE BIO STANDOFF DET SYS (LRBSDS)
Program Elements for Code B Items: 063884BP, ProjCP4/0604384BP, ProjCP5	Code: B	Other Related I	Program Elements:	

RDT&E Code B Item

The Counterproliferation (CP) Long Range Biological Standoff Detection System (LRBSDS), XM94E1, is a helicopter-mounted, long-range, large-area standoff aerosol detector, tracker and mapper system. The system employs Light Detection and Ranging (LIDAR) technology which detects aerosol clouds at ranges up to 50 km or more.

FYs: 1998 - \$12.8; 1999 - \$11.1; 2000 - \$2.7

EDT: Nov 98 - Aug 99

Developmental Testing: Jul 99 Operational Testing: Mar 00 - Jun 00 FUE: 1st Quarter FY01 (RDTE prototypes)

TC: 4th Quarter FY00

FUE: 3rd Quarter FY02 (Production units)

Exhibit P-5, Weapon		Appropriation/B	udget Activ	rity/Serial No.		P-1 Line I	tem Nomenclatur	re:		Weapon System	Туре:	Date:	
WPN SYST Cost Analysis		PROCUREM	ENT DEFENS	SE-WIDE/3/CHEM-	BIO DEFENSE	(JPO220) L	ONG RANGE BIO	S/OFF DET SYS (L	RBSDS)			Febi	uary 1999
Weapon System	ID		FY 98			FY 99			FY 00			FY 01	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
CP LRBSDS SYSTEMS													
1. Hardware													
ASIOE								360			360		
CP LRBSDS System											7650	3	2550.00
Diodes for Lasers								1350	1920	0.70			
Initial Spare Parts											900		
2. Institutional Training													
Institutional Trainer											500	1	500.00
Instructor Station											500	1	500.00
New Equipment Training											200		
3. Engineering Support													
In-House								193			1047		
Other Government Agencies								20			100		
Quality Assurance*											550		
*NOTE: Quality Assurance in FY01 is for Physical Configuration Audit/Functional Configuration Audit													
TOTAL								1923			11807		

	Exhibit P-5a, Budget Procurement History an	d Planning						Date:	February	y 1999
Appropriation/Budget Activity/Serial No: PROCUREMENT DEFENSE-WIDE/	3/CHEM-BIO DEFENSE	Weapon Syste	em Type:		P-1 Line Ite		lature: RANGE BIO STANDO	OFF DET S	YS (LRBSI	DS)
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issu Date
CP LRBSDS Laser Diodes FY 00	Spectral Diode Labs, San Jose, CA	SS/FP	SBCCOM, APG, MD	Dec-99	Mar-00	1920	703	Yes		
CP LRBSDS Systems FY 01	Schwartz Electro Optics, Orlando, FL	SS/FP	SBCCOM, APG, MD	Oct-00	Jan-02	3	2550000	Yes		

	FY 00 / 01 BUDGET PRO	ODU	CTION SC	HEDI	ULE			P-1 I			nclatur 20) Le		RAN	GE B	IO ST	ΓAND	OFF	DET	SYS	(LRE	SDS))	I	Date:			Feb	ruary	1999			
						, com	211					Fis	scal Y	ear 0		endar `	Year	00						Fi		Year (Calend		ear 01				L
	COST ELEMENTS	M F R	FY	S E R V	PROC QTY Each	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	O C T	N O V	D E C	J A N		M A R	A P R	M A Y	J U	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L		S E P	A T E R
DIC	DDES CP LRBSDS	1	FY 00	A	1920		1920			A			300	300	300	300	300	300	120													
СР	LRBSDS	2	FY 01	A	3		3													Α												3
								O C T	N O V	D E C	J A N	Е	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	
M F			PRO	ODUCT	ION RATES		REACHED	Ml Nun						D:	ADM	MINLE		IME ter 1 O	lot.		MFR fter 1 C) ot		TOTA			MAR	KS 1 Syst	1	5	la o	
r R	NAME/LOCATION		MIN.		1-8-5	MAX.	D+	Null	l	INIT				rii	0	ici	Ai	2	ct	Al	4)Cl	А	6	JCI	- Mil	8-5 - 1	Systen	n every	4 mor	iths	
2	Spectral Diode Labs, San Jose, CA Schwartz Electro Optics, Orlando, FL		200 0		300 0	500 1	0	2	_	REO	RDER IAL				0			2 0			4 16			6 16								
									_	REO!	RDER IAL				0			0			4			4								
										REO	RDER																					
										INIT	IAL RDER																					
									_	INIT																						
										REO	RDER																					

	FY 00 / 01 BUDGET PRO	DDUC	CTION SC	HEDI	ULE			P-1 I	tem N				RAN	GE B	IO ST	AND	OFF	DET	SYS	(LRE	BSDS))	I	Date:			Feb	ruary	1999			
												Fis	scal Y	ear 0		ndar \	Year	02					ı	F		Year (Calend		ear 03				L
	COST ELEMENTS	M F R	FY	S E R V	PROC QTY Each	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	O C T	N O V	D E C	J A N		M A R	A P R	M A	J U	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L		S E P	A T E R
СР	LRBSDS	2	FY 01	A	3		3				2				1																	
								0	N	D	J	F	M	A	M	J	J	A	S	0	N	D	J	F	M	A	M	J	J	A	S	
								C T	O V	E C	A N	Е	A R	P R	Α	U	U L	U G	E P	C T	O V	E C	A N	E B	A R	P R	A Y	U N	U L		E P	
M			PRO	ODUCT	ION RATES			M	FR						ADM	IINLE.	AD T	IME			MFR			TOTA	L	RI	MAR	KS				
F R	NAME/LOCATION		MIN.		1-8-5	MAX.	REACHED D+	Nun	_	INIT	IAL			Pri	or 1 Oc	ct	Af	ter 1 O	Oct	Af	fter 1 C	Oct	A	fter 1 (Oct	- Mi	11mum 13-5 - 1	1 Syst Systen	em - 1 n every	5 mont / 4 mon	hs iths	
1			200		300	500	0		_		RDER				0			2			4			6								
2	Schwartz Electro Optics, Orlando, FL		0		0	1	0	2		INIT:	ial RDER				0			0			16 4			16 4		1						
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										REO	RDER																					

Ex	hibit P-40, Budge	t Item Justific	ation Sheet					Date:		F.1 1000		
						DIE N	1			February 1999		
Appropriation/Budget Activity	y/Serial No: PROCUREMENT DE	FENSE-WIDE/3/	CHEM-BIO DEFE	NSE		P-1 Item Nomeno	clature	(JPO23	30) Portal Shield E	quipment		
Program Elements for Code B	Items:			Code:	Other Related	Program Elements	:					
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty				70								70
Gross Cost	0	0	0	13.9	3.9	3.9	3.9	0	0	0	0	25.6
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0	0	0	13.9	3.9	3.9	3.9	0	0	0	0	25.6
Initial Spares												
Total Proc Cost	0	0	0	13.9	3.9	3.9	3.9	0	0	0	0	25.6
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: The Air/Base Port (Portal Shield) ACTD system is comprised of a suite of detection sensors that are networked via land line or RF communications to a computer which resides within the installation Command Post (CP)/Emergency Operations Center (EOC). The system uses algorithms and decision logic to minimize false alarms and to provide installation commanders with automated detection and warning of Biological Warfare (BW) attacks. The Portal Shield ACTD prototypes provide a new capability to installation commanders. There are no other systems capable of providing reliable point detection of BW attack in the US inventory. The Portal Shield ACTD has successfully demonstrated the ability to provide critical force protection of CINC designated high-value, fixed-site assets.

JUSTIFICATION: In response to Operational Needs Statements from each of the sponsoring CINCs the JPO-BD has been directed to fabricate, install, and support additional Portal Shield systems to protect military sites in CENTCOM and PACOM areas of responsibility.

NOTE: The Portal Shield program was initiated in FY96 as an Advance Concept Technology Demonstration (ACTD) program for Biological Detection of high-value CINC fixed sites (airbases, ports). The Mark II prototype systems was successfully tested for operational utility in Septerber 1997 at Dugway Proving Ground, Utah. The Mark II prototype system was successfully deployed to Kuwait in February 1998 in support of Operational Desert Thunder. The Quadrennial Defense Review (QDR) provided \$26 million for additional systems that would begin production in FY99.

Exhibit P-5, Weapon		Appropriation/B					tem Nomenclatur			Weapon System	Туре:	Date:	
WPN SYST Cost Analysis		PROCUREMI		SE-WIDE/3/CHEM-	BIO DEFENSE		ortal Shield Equipme	ent					uary 1999
Weapon System	ID		FY 98			FY 99			FY 00			FY 01	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
Hardware Fabrication	В				10850	70	155.00						
Management/Engineering Support					2382			1336			1372		
System Fielding					221			157			12		
Initial Spares					196								
Technical/Program Documentation					108			116			119		
Contractor Logistics Support (CLS)					179			2300			2400		
TOTAL					13936			3909			3903		

Exhibit P-5a	a, Budget Procurement History a	nd Planning						Date: F	February	1999
Appropriation/Budget Activity/Serial No: PROCUREMENT DEFENSE-WIDE/3/CHEM-BIO DE	FENSE	Weapon Syste	m Type:		P-1 Line Ite		lature: O230) Portal Shield E	quipment		
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Sensors FY 99	Camber Corp. Inc.	SS/FFP	JPO-BD, Washington, DC	Jan-99	Jul-99	70	155000		Avaii	
REMARKS:										

	FY 00 / 01 BUDGET PR	.ODU(CTION SC	HEDI	ULE			P-1 I	tem N	Iomer	nclatu		PO23	30) Po	rtal Sl	hield l	Equip	oment	:				I	Date:			Fel	oruary	1999			
						, com	D.11					Fi	scal Y	Year 9		endar `	Year	98						F		Year 9 Calen		ear 99				L
	COST ELEMENTS	M F R	FY	S E R V	PROC QTY Each	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P	M A Y	J U	J U L		S E P	A T E R
SE	NSORS	1	FY 99	J	70		70																A						14		14	42
								0	N	D	J	F	M	A	M	J	ĭ	A	S	0	N	D	J	F	M	A	М	J	J	A	S	
								C T	O V	E C		E B	A R	P R	A Y	U N	J U L	U G	E P	C T	O V	E C	A N	E B	A R	P	A Y	U N	U L	U G	E P	
M			PR	ODUCT	ION RATES			Ml							_	MINLE					MFR			TOTA			EMAR					
F R	NAME/LOCATION		MIN.		1-8-5	MAX.	REACHED D+	Nun 1		INIT	IAI.			Pri	or 1 O	ct	Af	ter 1 O	Oct .	Af	fter 1 C	Oct .	A	fter 1 (Oct	-						
	Camber Corp. Inc., Wash, DC		10		14	20	0			REO	RDER				0			0			0			0								
										INIT:	IAL RDER															1						
										INIT	IAL																					
										REO	RDER IAL															1						
											RDER																					
										INIT:	IAL RDER															1						

	FY 00 / 01 BUDGET PR	ODU	CTION SC	HEDI	ULE			P-1 I	tem N	omen	nclatui		PO23	30) Po	rtal Sl	hield I	Equip	oment					Ι	Date:			Fel	oruary	1999			
						, com	D.					Fis	scal Y	Year 0		ndar \	Year (00						F		Year (Calen		ear 01				L
	COST ELEMENTS	M F R	FY	S E R V	PROC QTY Each	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	O C T	N O V	D E C	J A N	Е	M A R	A P R	M A	J U	J U	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P	M A Y	J U	J U L	A U G	S E P	A T E R
SEI	NSORS	1	FY 99	J	70	28	42		14		14		14																			
													_																			
								O C T	N O V	D E C	J A N	Е	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	P	M A Y	J U N	J U L	A U G	S E P	
M F			PR	ODUCT	ION RATES		REACHED	Ml Nun						Dri	ADM	IINLE.		IME ter 1 O	let		MFR ter 1 C	let.		TOTAl		RI	EMAR	ks				
R	NAME/LOCATION		MIN.		1-8-5	MAX.	D+	1	l	INITI				111	0	Ct	All	3	ct	Ai	7	ct	Λ	10	Jei							
1	Camber Corp. Inc., Wash, DC		10		14	20	0		_	REOI INITI	RDER IAL				0			0			0			0								
										REO	RDER															1						
		_								INITI REOI	IAL RDER															1						
										INITI REOI	IAL RDER																					
										INITI	IAL															1						
										REO	RDER																					

Ex	hibit P-40, Budge	t Item Justific	cation Sheet					Date:		Fahmany 1000		
Appropriation/Budget Activity	y/Serial No: PROCUREMENT DE	FENSE-WIDE/3/	CHEM-BIO DEFE	NSE		P-1 Item Nomeno	clature	(JX0005) Do	D Biological Vacci	February 1999 ine Procurement		
Program Elements for Code B	Items:			Code:	Other Related	Program Elements	:					
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	0	11.8	25.7	11.0	23.4	27.8	40.7	46.0	61.4	64.7	Continuing	Continuing
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0	11.8	25.7	11.0	23.4	27.8	40.7	46.0	61.4	64.7	Continuing	Continuing
Initial Spares												
Total Proc Cost	0	11.8	25.7	11.0	23.4	27.8	40.7	46.0	61.4	64.7	Continuing	Continuing
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: The vaccine acquisition component of the Joint Biological Defense Program is focused on a prime (systems) contract approach in which the prime contractor will manage biological defense medical products to include: program definition and risk reduction, advanced development, licensure by the Food and Drug Administration (FDA), production, stockpiling, testing, distribution and maintenance of a comprehensive database. Vaccines and defense medical products to be produced under this program include: botulinum vaccines, ricin vaccine, staphylococcal enterotoxin B (SEB) vaccine, Venezuelan Eastern Encephalitis (VEE) vaccine, combined VEE/Eastern Equine Encephalitis (EEE)/Western Equine Encephalitis (WEE) vaccine, plague vaccine, brucellosis vaccine, vaccinia vaccine, tularemia vaccine, and Q-fever vaccine. The currently licensed Anthrax vaccine will be procured through the manufacturer, BioPort (formally Michigan Biologic Products Institute (MBPI)). The current direction is to provide 2.4M Troop Equivalent Doses (TED) of licensed anthrax vaccine. All other requirements are based on 1.2M TEDs for high biological warfare (BW) threats, and 0.3 TEDs for lower BW threats.

JUSTIFICATION: Operating forces have a critical need for defense from worldwide proliferation of biological warfare capabilities. The medical portion of the Joint Biological Defense Program provides U.S. forces with FDA approved vaccines to protect against current and emerging threats which could be deployed against maneuver units or stationary facilities in the theater of operations. FY00 funding will procure 26 lots (200K to 250K doses per lot) of anthrax vaccine and 1 lot (6000 doses) of Vaccinia Immune Globulin (VIG). FY01 funding will procure 13 lots of anthrax vaccine and 1 lot (200K doses) of Q-Fever vaccine.

Exhibit P-5, Weapon		Appropriation/B					tem Nomenclatur			Weapon System	Туре:	Date:	
WPN SYST Cost Analysis		PROCUREME	ENT DEFENS	SE-WIDE/3/CHEM-I	BIO DEFENSE	(JX0005) D	oD Biological Vacci	ine Procurement				Febi	uary 1999
Weapon System	ID		FY 98			FY 99			FY 00			FY 01	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
Vaccinia Immune Globulin (VIG) Production (1 lot - 6000 doses)								2000	1	2000.00			
Q-Fever Vaccine Production (1 lot - 200K TED)											4290	1	4290.00
Vaccine Production Lots of Anthrax Vaccine (1 lot~200K to 250K doses)		6004	3	2001.33	10900	12	908.33	12204	26	469.38	13018	13	1001.38
Vaccine and Anti-Sera Storage and Testing		4242			90			2924			5820		
Anthrax Vaccine Production Facility Improvement and FDA Compliance Issues		15439						6296			4682		
TOTAL		25685			10990			23424			27810		

P-5a, Budget Procurement History ar	nd Planning						Date:	February	7 1999
IO DEFENSE	Weapon Syste	em Type:		P-1 Line Ite			ine Procure	ment	
Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
(MBPI) Bioport, Lansing, MI	SS/FFP	USAMRAA, Fort Detrick,	Jan-98	Aug-98	3	2001333	Yes		
Bioport, Lansing, MI	Option	USAMRAA, Fort Detrick, MD	Oct-98	Feb-99	12	908333	Yes		
Bioport, Lansing, MI	Option	USAMRAA, Fort Detrick, MD	Oct-99	Jan-00	26	469385	Yes		
Bioport, Lansing, MI	SS/FFP	USAMRAA, Fort Detrick, MD	Oct-00	Jan-01	13	1001385	Yes		
DynPort LLC, Reston, VA	C/FFP	USAMRAA, Fort Detrick, MD	Apr-01	Apr-02	1	4290000	Yes		
Baxter, Los Angeles, CA	C/FFP	USAMRAA, Fort Detrick, MD	Sep-00	Sep-01	1	2000000	Yes		
	Contractor and Location (MBPI) Bioport, Lansing, MI Bioport, Lansing, MI Bioport, Lansing, MI Bioport, Lansing, MI DynPort LLC, Reston, VA	Contractor and Location Contract Method and Type (MBPI) Bioport, Lansing, MI Bioport, Lansing, MI Option Bioport, Lansing, MI Option Bioport, Lansing, MI SS/FFP DynPort LLC, Reston, VA C/FFP	Weapon System Type: Contract Method and Type	Weapon System Type: Contractor and Location Contract Method and Type USAMRAA, Fort Detrick, MD	Weapon System Type: P-1 Line In Industry P-1 Line Industry P-1 Lin	Weapon System Type: Contract	Weapon System Type: Contract Method and Type	Weapon System Type: P-1 Line Item Nomental Electron Now Procure	Note

REMARKS: FY 01 - New contract to be negotiated with BioPort, LLC for Anthrax production beginning FY 01. The sale of MBPI and FDA compliance efforts at MBPI have influenced production capabilities and are estimated to increase significantly the costs per lot for Anthrax vaccine.

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ANTHRAX VACCINE PR	OGRAM	1	FY 98	A	3		3				A							1	2													
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ANTHRAX VACCINE PROGRAM	1	FY 00	A	26		26	A			2	4	4	4	3	3	2	2	2											$\overline{}$		
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ANTHRAX VACCINE PROGRAM	1	FY 01	A	13		13													A			2	2	2	2	2	2	1	\dashv	_	
Q-FEVER VACCINE PRODUCTION	3	FY 01	A	13		13													А			2	-	-	A	_	-	1			1
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2 Baxter, Los Angeles, CA 3 DynPort LLC, Reston, VA		1		1	1	0	1	2	INIT	TAL RDER				6			11 0			13			24		capa	bilities	and ar	e estim	ated to	increas	
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	FY 00 / 01 BUDGET PRO	DDUC	CTION SC	HEDI	JLE			P-1 I	tem N	omen	nclatur (JX) DoI	D Biol	logica	1 Vaco	cine I	Procui	remer	nt			I	Date:			Feb	ruary	1999			
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	COST ELEMENTS	M F R	FY	S E R V	PROC QTY Each	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	O C T	N O V	D E C	J A N	Е	M A R	A P R	M	J U	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L		S E P	A T E R
Q-F	EVER VACCINE PRODUCTION	3	FY 01	A	1		1							1																		
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Ex	hibit P-40, Budge	t Item Justific	cation Sheet					Date:				
			Julion C.1551							February 1999		
Appropriation/Budget Activit	y/Serial No: PROCUREMENT DE	FENSE-WIDE/3/	CHEM-BIO DEFE	NSE		P-1 Item Nomen	clature	(M93001) BIO INTE	GRATED DETEC	TOR SYSTEM (I	BIDS)	
Program Elements for Code B	Items:			Code:	Other Related	Program Elements	:					
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty	17	14	28	21	20							69
Gross Cost	22.0	20.9	37.4	14.9	19.5	0	0	0	0	0	0	114.7
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	22.0	20.9	37.4	14.9	19.5	0	0	0	0	0	0	114.7
Initial Spares												
Total Proc Cost	22.0	20.9	37.4	14.9	19.5	0	0	0	0	0	0	114.7
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: The Biological Integrated Detection System (BIDS) is an early warning and identification capability in response to a large area (theater) Biological Warfare (BW) attack. The system is a detection suite installed in a shelter which is mounted on a dedicated vehicle with generator and trailer power supply. Other BIDS elements include collective protection, environmental control, and storage for supplies, mission equipment, and materials. The BIDS pre-planned product improvement (P3I) system will be equipped with a detection suite to include a particle sampler, particle counter/sizer, biological detector and chemical-biological mass spectrometer. The shelter may be removed from the vehicle for fixed site application. The BIDS program is conducted in two phases. Phase I was the non developmental item (NDI) BIDS. Phase II is the P3I which will provide technology insertion to upgrade from concurrent developmental efforts for the NDI (four agent detection capability) core configuration to an eight agent detection capability. The acquisition plan to procure the BIDS is phased as follows: (1) 41 NDI BIDS and (2) 42 P3I BIDS. The JBPDS is a detection suite consisting of complementary trigger, sampler, detector and identification technologies to detect and identify the full range of biological agents in real-time. The JBPDS will provide a common point detection capability for all Services and meet the Service requirements as outlined in the Joint Operational Requirements Document (JORD). The JBPDS is programmed to replace the BIDS and the IBAD and to provide the Marines and Air Force an initial detection capability. JBPDS Army platform production will begin in FY99 to ensure availability for integration of the JBPDS beginning in FY01.

JUSTIFICATION: BIDS P3I is phase II of the two phased BIDS acquisition strategy. Phase II fields a core of BIDS P3I with an eight agent detection capability. The FY00 quantity is 20 Army platforms for the JBPDS.

Exhibit P-5, Weapon WPN SYST Cost Analysis		Appropriation/B		ity/Serial No.	DIO DECENCE		tem Nomenclatur		EM (DIDS)	Weapon System	Туре:	Date:	1000
	ID	PROCUREMI		SE-WIDE/3/CHEM-	BIO DEFENSE		BIOINTEGRATED	DETECTOR SYSTE					uary 1999
Weapon System Cost Elements	ID CD	TotalCost	FY 98 Qty	UnitCost	TotalCost	FY 99 Qty	UnitCost	TotalCost	FY 00 Qty	UnitCost	TotalCost	FY 01 Qty	UnitCost
COSt Elements	CD	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
		4000		4000	4000		4000	4000		7000	4000		4000
1. Mil Std Equipment													
S788 LW Multipurpose Shelter		518	21	24.67	700	28	25.00	331	13	25.46			
2. Commercial Equipment													
HF Radio		2172	30	72.40	2055	28	73.39	971	13	74.69			
UV Aerosol Particle Sizer		4783	37	129.27									
Mini Flow Cytometer		2847	37	76.95									
CB Mass Spectrometer		7386	30	246.20									
Bio Detector		3990	30	133.00									
Biological Samplers		2315	111	20.86									
3. Auxiliary Equipment		1333	28	47.61	1830	21	87.14	1471	20	73.55			
4. In-house Assembly of P3I BIDS		6246	28	223.07									
5. In-House Assembly of JBPDS Platforms					4749	21	226.14						
6. Contractor Assembly of JBPDS Platforms								5451	20	272.55			
7. Eng/QA/Sys Fielding Support		4581			5566			8829					
8. Testing		1200											
9. War Stock								2426					
Note: There will be a total of 42 BIDS P3I Systems. For each system, 13 extra items have been purchased (5 for training, 8 for spares)													
TOTAL		37371			14900			19479					

	Exhibit P-5a, Budget Procurement History	y and Planning						Date:	February	1999
Appropriation/Budget Activity/Serial No: PROCUREMENT DEFENSE-WIDE/	3/CHEM-BIO DEFENSE	Weapon Syste	rm Type:			em Nomenc (M93001) BIO I	lature: NTEGRATED DETEC	CTOR SYS	TEM (BIDS	5)
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
BIDS P3I Assembly FY 98	SBCCOM, APG, MD	In-house	SBCCOM, APG, MD	Jan-98	Nov-98	28	305000	Yes		
JBPDS Platforms Assembly FY 99 FY 00	SBCCOM, APG, MD TBS	In-House C/FFP	SBCCOM, APG, MD SBCCOM, APG, MD	Sep-99 Dec-99	Feb-00 Dec-00	21 20	226200 272500			Dec-99

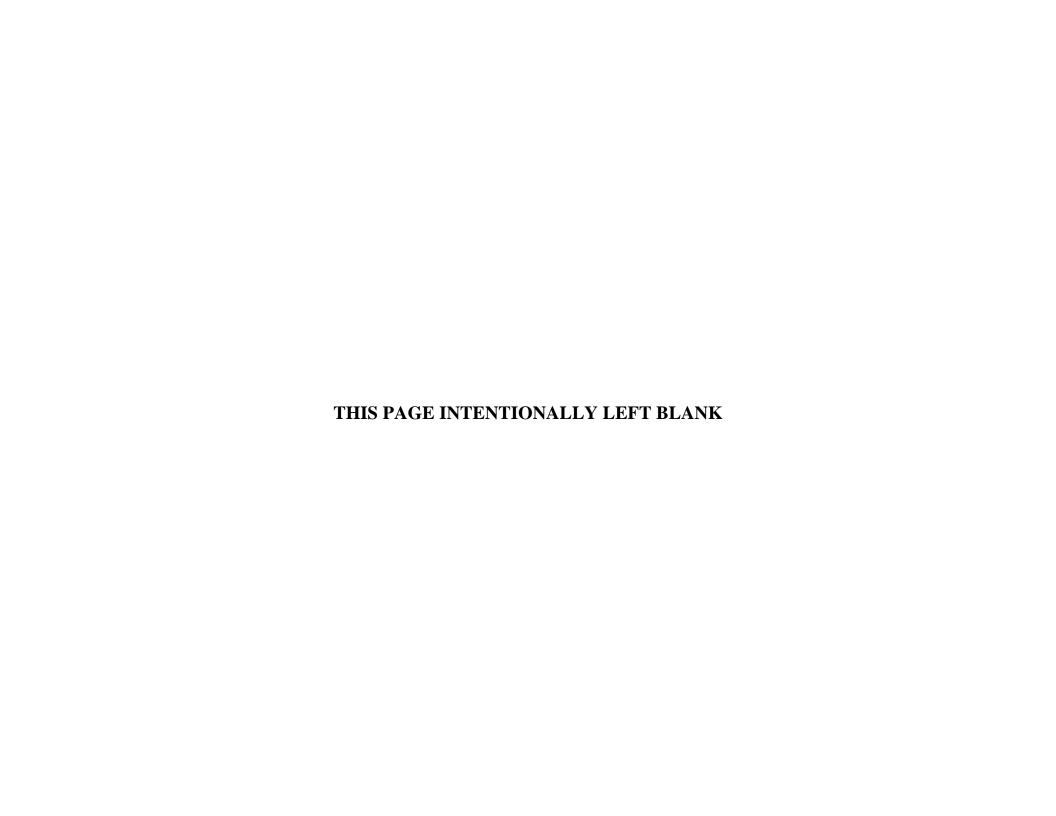
REMARKS: The JBPDS Platform design will include items common to the P3I BIDS. Fabrication of these items can begin prior to final approval of the complete JBPDS Platform design.

	FY 00 / 01 BUDGET PF	RODUC	CTION SC	HEDI	JLE			P-1 I			nclatu: 3001)		INTE	EGRA'	TED I	DETE	СТО	R SY	STEN	M (BI	DS)		Ι	Oate:			Feb	ruary	1999			
												Fi	scal Y	Year 9	8									Fi	iscal `	Year 9	9					
				S	PROC	ACCEP	BAL								Cale	ndar `	Year	98							(Calend	ar Ye	ar 99				L
	COST ELEMENTS	M F R	FY	E R V	QTY Each	PRIOR TO 1 OCT	DUE AS OF 1 OCT	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L		S E P	A T E R
BIE	OS P3I (ASSEMBLY)	1	FY 97	A	14		14							7				7														
BIE	OS P3I (ASSEMBLY)	1	FY 98	A	28		28				A										7			7			7			7		
JBP	DS PLATFORMS ASSEMBLY	2	FY 99	A	21		21																								A	21
								0	N	D	J	F	M	A	M	J	J	A	S	0	N	D	J	F	М	A	M	J	J	A	S	
								C T	O V	E C	A N	E B	A R	P R	A Y	U N	U L	U G	E P	C T	O V	E C	A N	E B	A R	P R	A Y	U N	U L		E P	
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	CBDCOM for BIDS P3I		2		3	8 8	0	Ĺ <i>'</i>			RDER				0			3			11			14				ward 9/				rs
2	SBCCOM for JBPDS Platforms		2		3	8	0	2	2	INIT	IAL				0			3			11			14			•	orm as				
3	TBS		2		3	8	0				RDER				0			3			5			8				form A n Jan 9				
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	COST ELEMENTS	M F R	FY	S E R V	QTY Each	PRIOR TO 1 OCT	DUE AS OF 1 OCT	O C T	N O V	D E C		Е	M A R	A P R	Α	UU	J U L	A U G	S E P	C	0	Е	J A N	F E B	M A R	A P R	M A Y	J U N	J U L		S E P	A T E R
JBI	PDS PLATFORMS ASSEMBLY	2	FY 99	A	21		21					7			7			7				+										
JBI	PDS PLATFORMS ASSEMBLY	3	FY 00	A	20		20			A												7			7			6				
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									-	INITI REOI	IAL RDER																					

Budget Line Item #69

Collective Protection



Ex	hibit P-40, Budge	t Item Justific	cation Sheet					Date:				
	•									February 1999		
Appropriation/Budget Activity	y/Serial No: PROCUREMENT DE	FENSE-WIDE/3/	CHEM-BIO DEFE	NSE		P-1 Item Nomen	clature	(PA1600)	COLLECTIVE PF	ROTECTION		
Program Elements for Code B	Items:			Code:	Other Related	Program Elements	:					
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	11.1	5.3	24.3	20.3	36.7	38.5	39.9	38.5	45.1	44.7	Continuing	Continuing
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	11.1	5.3	24.3	20.3	36.7	38.5	39.9	38.5	45.1	44.7	Continuing	Continuing
Initial Spares												
Total Proc Cost	11.1	5.3	24.3	20.3	36.7	38.5	39.9	38.5	45.1	44.7	Continuing	Continuing
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: The objective of the Chemical/Biological (CB) Collective Protection program is to provide CB Collective Protection systems. The CB Collective Protection systems will be smaller, lighter, less costly and more easily supported logistically at the crew, unit, ship and aircraft level. Collective protection platforms include shelters, vehicles, ships, aircraft, buildings and hospitals.

JUSTIFICATION: Operational forces across the continuum of global, contingency, special operations/low intensity conflict, counternarcotics, and other high risk missions have an immediate need to safely operate, survive and sustain operations in a nuclear, biological and chemical agent threat environment. Operating forces have a critical need for defense against worldwide proliferation of NBC warfare capabilities and for medical treatment facilities.

ı	Exhibit P-40M, Budget Item J	ustification Sheet				Dat	e:	:	February 1999		
Appropriation/Budget Ac	tivity/Serial No: REMENT DEFENSE-WIDE/3/CHEM-B	IO DEFENSE			P-1 Item Nomenc	lature	(PA 1600) (COLLECTIVE PR			
Program Elements for Co		IO DEI ENGE	Code:	Other Related F	rogram Elements:		(1711000)	OLLLETIVLTR	OTECTION		
Description		Fiscal Years									
OSIP NO.	Classification		FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	TC	Total
Collective Protection A	Amphib Backfit (LHD)										
			0.0	0.0	11.7	11.6	10.9	8.8	8.6	10.0	61.6
Collective Protection	Amphib Backfit (LSD)										
			0.0	0.0	0.4	6.3	3.5	3.6	3.5	1.0	18.3
Collective Protection A	Amphib Backfit (LHA)										
			0.0	0.0	0.0	0.4	4.0	5.1	7.5	21.0	38.0
JCPE											
			0.0	0.0	1.2	1.1	0.7	0.7	2.7	0.0	6.4
Totals			0.0	0.0	13.3	19.4	19.1	18.2	22.3	32.0	124.3
Totals			0.0	0.0	13.3	17.4	17.1	10.2	22.3	32.0	124.3

Exhibit P-5, Weapon		Appropriation/B					tem Nomenclatur			Weapon System	Туре:	Date:	
WPN SYST Cost Analysis		PROCUREME		SE-WIDE/3/CHEM-	BIO DEFENSE		COLLECTIVE PRO	FECTION					uary 1999
Weapon System	ID		FY 98			FY 99			FY 00			FY 01	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
Collectively Protected Deployable Medical System								2768			2902		
Transportable Coll. Prot. Sys.		4730			3878			6581					
Navy Shore Equipment		334									1562		
Collective Prot Amphipbious Backfit								12157			18305		
Joint Coll Prot System & Improvements								1202			1059		
CO System Fielding Support/Spares		24											
CB Protective Shelter (CBPS)		19192			16419			14024			14642		
TOTAL		24280			20297			36732			38470		

Ex	khibit P-40, Budge	t Item Justific	cation Sheet					Date:				
										February 1999		
Appropriation/Budget Activit	ty/Serial No: PROCUREMENT DE	FENSE-WIDE/3/	CHEM-BIO DEFE	NSE		P-1 Item Nomen		COLLECTIVELY P	ROTECTED DEP	LOYABLE MED	ICAL SYSTEM	
Program Elements for Code E	3 Items:			Code:	Other Related	Program Elements	:					
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty					4	5	3					12
Gross Cost	0	0	0	0	2.8	2.9	2.0	0	0	0	0	7.7
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0	0	0	0	2.8	2.9	2.0	0	0	0	0	7.7
Initial Spares												
Total Proc Cost	0	0	0	0	2.8	2.9	2.0	0	0	0	0	7.7
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: Collectively Protected Deployable Medical System (CP DEPMEDS) is a kit that will be fielded with selected fielded DEPMEDS hospitals to convert the hospital into a fully operational environmentally controlled, collectively protected medical treatment facility. The requirement is to be able to sustain medical operations in a CB environment for 72 hours. The following components are required to be added to existing DEPMEDS hospitals to provide a fully operational collectively protected field hospital: M28 Simplified Collective Protection Equipment, CB hardened ISO Shelter Seals, CB Protected Water Distribution System, CB Protected Latrines, Low Pressure Alarms and CB Protected Environmental Control Units and Heaters.

JUSTIFICATION: Currently fielded DEPMEDS hospitals do not have the ability to sustain medical operations in a CB environment. There is a critical need for medical functions requiring the need for removal of individual protective clothing and masks. This is a critical capability required. FY00/01 funds are to be used to complete procurement of components required to provide a fully operational collectively protected field hospital.

Exhibit P-5, Weapon		Appropriation/B					tem Nomenclatur			Weapon System	Туре:	Date:	
WPN SYST Cost Analysis		PROCUREM		SE-WIDE/3/CHEM-	BIO DEFENSE		OLLECTIVELY PR	ROT DEPLOYABLE					uary 1999
Weapon System	ID		FY 98			FY 99			FY 00			FY 01	
Cost Elements	CD	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost
		\$000	Eacn	\$000	\$000	Eacn	\$000	\$000	Each	\$000	\$000	Eacn	\$000
1. CPDEPMEDS													
M28 SCPE								350	4	87.50	438	5	87.60
CB Water Distribution								104	4	26.00	130	5	26.00
CB Latrines								760	4	190.00	950	5	190.00
CB ISO Shelters								304	4	76.00	380	5	76.00
Low Pressure Alarms								116	4	29.00	145	5	29.00
Overpack/Accessory Kit								320	4	80.00	400	5	80.00
Assemblage								20	4	5.00	25	5	5.00
2. Engineering													
Government								655			434		
Contractor													
3. Data								139					
TOTAL								2768			2902		

Exhibit P-5a	a, Budget Procurement History and	d Planning						Date:	February	1999
Appropriation/Budget Activity/Serial No: PROCUREMENT DEFENSE-WIDE/3/CHEM-BIO DE	FENSE	Weapon Syster	т Туре:		P-1 Line Ite (JCP001)		lature: Y PROTECTED DEP	LOYABLE	MEDICAL	. SYSTEM
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
CPDEPMEDS FY 00 FY 01	TBS		SBCCOM	Jan-00 Dec-00	Sep-00 Jun-01	4 5	493500 493600		Nov-99 Nov-99	
REMARKS:										

	FY 00 / 01 BUDGET PR	ODU(CTION SC	HEDI	JLE			P-1 Item Nomenclature: (JCP001) COLLECTIVELY PROTECTED DEPLOYABLE MEDICAL SYS Fiscal Year 00												YSTI		Date:			Fel	oruary	1999					
				~								Fis	scal Y	ear 0		ndar Y	Year (00						Fi		Year (Calend		ear 01				L
	COST ELEMENTS	M F R	FY	S E R V	PROC QTY Each	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	O C T	N O V	D E C	J A N	Е	M A R	A P R	M	J U	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	A T E R
CP	DEPMEDS	1	FY 00	A	4		4				Α								2	2												
CP	DEPMEDS	1	FY 01	A	5		5															A						2	3			
																\dashv																
								O C T	N O V	D E C	J A N	Е	M A R	A P R	M A Y	U	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	
M F			PR	ODUCT	ION RATES		REACHED	Ml Nun						Pri	ADM ior 1 Oc	IINLE/		IME ter 1 O	ct		MFR ter 1 O)ct		TOTAl		RI	EMAR	KS				
R 1	NAME/LOCATION TBS		MIN. 1		1-8-5 6	MAX. 10	D+ 0	1			RDER				2			3			9 7			12 9								
										INITI REOI INITI	RDER																					
											RDER																					
										REOI INITI	RDER IAL																					
										REOI	RDER																					

Ex	hibit P-40, Budge	t Item Justific	cation Sheet					Date:		February 1999		
Appropriation/Budget Activity	y/Serial No: PROCUREMENT DE	FENSE-WIDE/3/	CHEM-BIO DEFE	NSE		P-1 Item Nomeno	clature	(JF0102) TRANSI		-	SYS	
Program Elements for Code B	Items:			Code:	Other Related	Program Elements	:					
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	0	0	4.7	3.9	6.6	0	0	0	0	0	0	15.2
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0	0	4.7	3.9	6.6	0	0	0	0	0	0	15.2
Initial Spares												
Total Proc Cost	0	0	4.7	3.9	6.6	0	0	0	0	0	0	15.2
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: The Transportable Collective Protective System program supports HQ PACAF/CE by procuring components and assembling them into transportable kits that will provide Chemical Biological (CB) collective protection facilities when deployed in high threat CB theaters. Each kit uses the M28 CPE liner system (TEMPER tent liner/suspension systems, and if necessary, tent material) that is designed to provide CB protection for the Army Deployable Medical Systems. In addition, each kit contains the necessary CB filtration; air distribution, conditioning, and pressurization (Chem-Bio Hardened Air Mgt Plant); and the chemical air processing systems (for personnel decontamination). The components will be assembled into three kit types. One configuration uses a 64-foot TEMPER tent (with M28 CB liners) for stand-alone protection and will be used primarily for training. The second configuration allows a larger personnel capacity and provides operational stand-alone protection with a 96-foot TEMPER tent (with M28 CB liners). The third configuration furnishes components for collective protection in existing non-CB protected facilities and it renders the largest personnel protection capacity.

JUSTIFICATION: USAF currently has a requirement for both fixed and transportable collective protection facilities to assist in sustaining air operations in a chemical or biological environment. Collective protection (fixed and transportable) is required to support all AF mission functions in a CB environment and/or to provide toxic-free areas for rest and relief for the general airbase population. Collective protection is essential to ensure the AF can execute its core capabilities. FY00 supports this effort with the procurement of an additional 23 systems.

Exhibit P-5, Weapon WPN SYST Cost Analysis		Appropriation/B		ity/Serial No.	DIO DECENCE		tem Nomenclatur		r cvc	Weapon System	Type:	Date:	1000
Weapon System	ID	FROCUREMI		SE-WIDE/3/CHEM-	BIO DEFENSE		KANSFORTABLE C	COLLECTIVE PRO					uary 1999
	CD	TotalCost	FY 98 Qty	UnitCost	TotalCost	FY 99 Qty	UnitCost	TotalCost	FY 00 Qty	UnitCost	TotalCost	FY 01 Qty	UnitCost
Cost Elements	CD	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
		φσσσ	Zacii	φοσσ	φοσο	- Lucii	\$	\$	Zuen	4000	4000	Zuen	φοσο
1. Hardware													
Chem-Bio Hardened Air Mgt Plant		1890	21	90.00	1649	17	97.00	2622	23	114.00			
Collective Protection Equipment		2002			1519			2791					
Misc Shelter Equipment		446			247			478					
2. Engineering Support		331			340			506					
3. Assembly		61			123			184					
TOTAL		4730			3878			6581					

Ex	hibit P-5a, Budget Procurement History a	_						Date:	February	1999
Appropriation/Budget Activity/Serial No: PROCUREMENT DEFENSE-WIDE/3/CHI	EM-BIO DEFENSE	Weapon Syst	em Type:		P-1 Line Ite		lature: NSPORTABLE COLI	LECTIVE F	ROT SYS	
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issu Date
Hardware-CB Hardened Air MGT Plant FY 98	Engineered Air Systems, St. Louis, MO	C/FP	Brooks AFB, TX	Apr-98	Jan-99	21	90000	Yes	Jan-98	Feb-98
FY 99	Engineered Air Systems, St. Louis, MO	Option	Brooks AFB, TX	Feb-99	Oct-99	17	97000	Yes		
FY 00	Engineered Air Systems, St. Louis, MO	Option	Brooks AFB, TX	Dec-99	Jun-00	23	114000	Yes		

REMARKS: Besides the CB defense program, the contractor is providing the same system for the CHATH program. CHATH is procuring 107 systems in FY98, 11 systems in FY99 and 0 systems in FY00. Thus, the unit cost growth shown is due to the fact the contractor is manufacturing 82 less systems from FY98 to FY00.

	FY 00 / 01 BUDGET PR	ODU	CTION SC	HEDI	JLE			P-1 Item Nomenclature: (JF0102) TRANSPORTABLE COLLECTIVE PROT SYS Fiscal Year 98												I	Date:			Feb	ruary	1999						
						. GGED	D.					Fis	scal Y	Year 9		endar	Year	98						F		Year 9 Calend		ear 99				L
	COST ELEMENTS	M F R	FY	S E R V	PROC QTY Each	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L		S E P	A T E R
СВ	HARDENED AIR MGT PLANT	1	FY 98	AF	21		21							A									2	2	5	8	4					
СВ	HARDENED AIR MGT PLANT	1	FY 99	AF	17		17																	A								17
								O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	U	S E P	
M			PR	ODUCT	ION RATES			M	FR						ADM	MINLE	AD T	IME			MFR		,	ГОТА	L	RE	MAR	KS				
F R	NAME/LOCATION		MIN.		1-8-5	MAX.	REACHED D+	Nun	_	INIT	TAI :			Pr	ior 1 O	Oct .	Af	ter 1 O	ct	Af	fter 1 C	Oct	A	fter 1 (Oct	•				ad time ne is 7		18.
-	Engineered Air Systems, St. Louis, MO		1		2	15	0			REO	RDER				0			4			9			13						re due t is relea:		e
\vdash										INIT	TAL RDER															(Jan	99) wł	ich cau	ised a l	longer l	ead ti	
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		P-1 Item Nomenclature: PRODUCTION SCHEDULE (JF0102) TRANSPORTABLE COLLECTIVE PROT SYS														I	Date:															
	FY 00 / 01 BUDGET PR	ODU	CTION SC	HEDI	JLE					(JI	F0102	2) TR.	ANSI	PORT	[ABL]	E CO	LLEC	CTIVE	E PRO	OT SY	'S						Feb	ruary	1999			
												Fi	scal Y	Year (00									F	iscal	Year ()1					
				S	PROC	ACCEP	BAL								Cal	endar	Year	00							(Calend	lar Ye	ear 01				L
		M	FY	Е	QTY	PRIOR	DUE	О	N	D	J	F	M	A	M	J	J	A	S	О	N	D	J	F	М	A	M	J	J	Α	S	A T
	COST ELEMENTS	F R		R V	Each	TO 1 OCT	AS OF 1 OCT	C	О	Е	A	Е	Α	P	Α	U	Ü	U	Е	С	0	Е	Α	Е	Α	P	Α	U	U	U	Е	E
		K		٧		1001	1001	Т	V	С	N	В	R	R	Y	N	L	G	P	Т	V	С	N	В	R	R	Y	N	L	G	P	R
CB	HARDENED AIR MGT PLANT	1	FY 99	AF	17		17	7	5	5																						
СБ	HARDENED AIR MOT FLANT	1	11 99	AI.	17		17	,	,	3																						
СВ	HARDENED AIR MGT PLANT	1	FY 00	AF	23		23			A						10	10	3														
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F R	NAME/LOCATION		MIN.	,	1-8-5	MAX.	REACHED D+	Nun		INIT	TAT			Pr	rior 1 C	Jct	A	fter 1 C	Jet	Ai	fter 1 (Jet	А	fter 1 (Jet					ad time ne is 7		ıs.
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Exhibit	: P-40, Budge	t Item Justific	cation Sheet				1	Date:		February 1999		
Appropriation/Budget Activity/Seri PRO	al No: OCUREMENT DE	FENSE-WIDE/3/	CHEM-BIO DEFE	ENSE		P-1 Item Nomeno	lature	(JN0012)	NAVY SHORE E	QUIPMENT		
Program Elements for Code B Item	s:			Code:	Other Related	Program Elements:						
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	0	0	0.3	0	0	1.6	2.3	3.8	0	0	0	8.0
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0	0	0.3	0	0	1.6	2.3	3.8	0	0	0	8.0
Initial Spares												
Total Proc Cost	0	0	0.3	0	0	1.6	2.3	3.8	0	0	0	8.0
Flyaway U/C												
Wpn Sys Proc U/C												
	·	•	·	•	•	•	•	*	•	•	•	•

DESCRIPTION: Naval Shore Equipment provides for initial outfitting of collective protection shelters/structures for Naval Construction Force and Naval Overseas Shore Activities as required by the Naval Facilities Engineering Command's Table of Allowance (TOA).

JUSTIFICATION: FY01 funding procures Collective Protection Shelters Systems for Naval Support Element, Naval Construction Force, Maritime Pre-positioned Force, and Naval Overseas Shore activities.

Exhibit P-5, Weapon		Appropriation/B					tem Nomenclatur			Weapon System	Туре:	Date:	
WPN SYST Cost Analysis		PROCUREMI		SE-WIDE/3/CHEM-	BIO DEFENSE		AVY SHORE EQU	IPMENT					uary 1999
Weapon System	ID		FY 98			FY 99			FY 00			FY 01	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
M20A1 Shelter		334	40	8.35									
Collective Protection Shelter System											1512	88	17.18
Support Costs											50		
Note: FY98 support costs shown in JN0013 (Individual Protective Gear) line													
TOTAL		334									1562		

	Exhibit P-5a, Budget Procurement History	and Planning						Date:	February	/ 1999
Appropriation/Budget Activity/Serial No: PROCUREMENT DEFENSE-WIDE/	3/CHEM-BIO DEFENSE	Weapon Syste	m Type:		P-1 Line It	em Nomeno	lature: 12) NAVY SHORE E	QUIPMEN'	Г	
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Collective Protection Shelters FY 01	TBS	C/FP	TBS	Jan-01	Apr-01	88	1700	Yes		
M20A1 Shelter FY 98	TBS	C/FP	TACOM-ACALA Rock Island IL	Jul-99	Oct-99	40	8350	Yes		

	FY 00 / 01 BUDGET PR	ODU	CTION SC	HEDI	JLE			P-1 I	tem N	omer	nclatuı		012)	NAV	Y SHO	ORE I	EQUI	IPME	NT				I	Date:			Feb	ruary	1999			
												Fis	scal Y	Year 0		endar \	Year	00						F		Year (Calend		ear 01				L
	COST ELEMENTS	M F R	FY	S E R V	PROC QTY Each	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	O C T	N O V	D E C	J A N	Е	M A R	A P R	M A Y	J U	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	A T E R
M2	20A1 SHELTER	1	FY 98	N	40		40	38	2																							
CC	DLLECTIVE PROTECTION SHELTER	2	FY 01	N	88		88																Α			20	20	20	20	8		
											_						_						_						_			
								O C T	N O V	D E C	J A N	Е	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	
M F					ON RATES		REACHED	Ml Nun	nber	INTER	TAI			Pri	ADM ior 1 O	MINLE.		ter 1 O	ct		MFR fter 1 C	Oct		TOTAL		RI	EMAR	KS				
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Ex	hibit P-40, Budge	t Item Justific	cation Sheet				D	ate:		February 1999		
Appropriation/Budget Activity	y/Serial No: PROCUREMENT DE	FENSE-WIDE/3/	CHEM-BIO DEFE	ENSE		P-1 Item Nomeno	clature	(JN0014) COLLEG	CTIVE PROT SYS	Б АМРНІВ ВАСК	FIT	
Program Elements for Code B	Items:			Code:	Other Related	Program Elements	:					
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	0	0	0	0	12.2	18.3	18.4	17.5	19.6	19.1	Continuing	Continuing
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0	0	0	0	12.2	18.3	18.4	17.5	19.6	19.1	Continuing	Continuing
Initial Spares												
Total Proc Cost	0	0	0	0	12.2	18.3	18.4	17.5	19.6	19.1	Continuing	Continuing
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: The anticipated threat of weapons of mass destruction (WMD) has reinforced the need to provide better defensive measures to protect personnel and vital ship spaces from toxic chemical, biological agents and radioloical fallout. The Collective Protection System (CPS) Backfit Program was funded as a result of the Quadrennial Defense Review (QDR) for installation of CPS in mission critical medical and command and control spaces on three Navy amphibious ship classes: LHA, LHD, and LSD. CPS is integrated with the ship's Heating Ventilation and Air-conditioning (HVAC) systems and provides filtered supply air for over-pressurization of specified shipboard zones to keep contamination from entering protected spaces. CPS eliminates the need for the ship's crew to wear protective gear (ie. suits, masks). CPS will be backfitted on high priority ships and is adaptable to any ship air flow requirements.

JUSTIFICATION: The primary objective of the CPS Backfit Program is to provide collective protection to mission critical operational spaces and crew sustainability spaces on selected amphibious ship classes. Naval ships that operate in high threat areas will receive backfit priority.

Date:

February 1999

MODIFICATION TITLE: Collective Protection System Amphibious Backfit (LHD), Medical Space, CIC installation

MODELS OF SYSTEM AFFECTED: Landing Dock Helicopter (LHD) class ship, Medical Space, Combat Information Center (CIC) Backfit

DESCRIPTION/JUSTIFICATION:

Shipboard Collective Protection System (CPS) will be installed on the Landing Dock Helicopter (LHD) ship class (LHD 1-6) in high priority medical space, and Combat Information Center (CIC). CPS backfit efforts will include ship surveys, engineering design analysis, detail design (Shipboard Installation Drawings (SIDs)), development of modular installation packages, procurement of hardware, logistic warehousing and staging, and installation via Alteration Installation Teams (AITs). Procurement of Government Furnished Equipment (GFE) is required. CPS backfit installation process is being designed to maximize flexibility in procuring, receiving, warehousing, and assembling the necessary installation kits to meet the challenges associated with changing ship availabilities.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

1992 - SACPS accomplished milestone III

1993 - CPS accomplished milestone IIIB

1994-1998 - CPS design improvements

1996 - SACPS installed on LHA-2, LHA-4 Combat Information Center (CIC), and Radar room

1997 - Quadrennial Defense Review cites need for additional ship backfits

Installation Schedule:																					
	Pr Yr		FY	1998			FY	1999			FY 2	2000			FY 2	2001			FY 2	002	
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs												3				2		1			
Outputs																1			1		
		FY 2	2003			FY 2	2004			FY:	2005			FY 2	2006			To			Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	(Complete			
Inputs																					6
Outputs		1					1			1			1								6
METHOD OF IMPLEMEN	NTATION	1:	In House	/ Contrac	tor	ADMINI	STRATIV	VE LEAD	TIME:		3 months		F	PRODUC	CTION LE	EADTIM	E:	6 months			
Contract Dates:			FY 1999		N/A			FY 2000		01/00			F	Y 2001		01/01					
Delivery Date:			FY 1999		N/A			FY 2000		06/00			F	Y 2001		06/01					

MODIFICATION TITLE (Cont): Collective Protection System Amphibious Backfit (LHD), Medical Space, CIC installation

FINANCIAL PLAN: (\$ in Millions)

	FY	1997																		
	and	Prior	FY	1998	FY	1999	FY 2	2000	FY 2	2001	FY 2	2002	FY :	2003	FY	2004	T	'C	TO	ΓAL
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
PROCUREMENT																				
Kit Quantity																				
Installation Kits																				
Installation Kits, Nonrecurring																				
Equipment							3	5.2	2	2.3	1	1.4							6	8.9
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data								5.4		1.3		1.3		1		1				10
Training Equipment																				
Support Equipment																				
Other								1.1		2.1		2.3		2		2				9.5
Interim Contractor Support																				
Installation of Hardware																				
FY 1997 & Prior Eqpt Kits																				
FY 1998 Eqpt Kits																				
FY 1999 Eqpt Kits																				
FY 2000 Eqpt Kits									1	5.9	1	5.9	1	5.8					3	17.6
FY 2001 Eqpt Kits															1	5.6	1	5	2	10.6
FY 2002 Eqpt Kits																	1	5	1	5
FY 2003 Eqpt Kits																				
FY 2004 Eqpt Kits																				
TC Equip-Kits																				
Total Equip-Kits									1	5.9	1	5.9	1	5.8	1	5.6	2	10	6	33.2
Total Procurement Cost								11.7		11.6		10.9		8.8		8.6		10		61.6

Date:

Date:

February 1999

MODIFICATION TITLE: Collective Protection System Amphibious Backfit (LSD) class (CIC), Berthing, Installation

MODELS OF SYSTEM AFFECTED: Landing Dock Ship (LSD) Class, Combat Information Center (CIC), Berthing, Backfit

DESCRIPTION/JUSTIFICATION:

Shipboard Collective Protection System (CPS) will be installed on the Landing Ship Dock (LSD) ship class (LSD -41, -42, -43) in mission critical Combat Information Center (CIC) and Berthing spaces. CPS backfit efforts will include ship surveys, engineering design analysis, detail design (Shipboard Installation Drawings (SIDs)), development of modular installation packages, procurement of hardware, logistic warehousing and staging, and installation via Alteration Installation Teams (AITs). Procurement of Government Furnished Equipment (GFE) is required. CPS backfit installation process is being designed to maximize flexibility in procuring, receiving, warehousing, and assembling the necessary installation kits to meet the challenges associated with changing ship availabilities.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

1992 - SACPS accomplished milestone III

1993 - CPS accomplished milestone IIIB

1994-1998 - CPS design improvements

1996 - SACPS installed on LHA-2, LHA-4 Combat Information Center (CIC), and Radar room

1997 - Quadrennial Defense Review cites need for additional ship backfits

Installation Schedule:																					
	Pr Yr		FY	1998			FY	1999			FY 2	2000			FY 2	2001			FY 2	002	
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs																3					
Outputs																					
		FY 2	2003			FY 2	2004			FY	2005			FY 2	2006			То			Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	(Complete			
Inputs																					3
Outputs		1				1				1											3
METHOD OF IMPLEME	ENTATION	N :	In-House	/ Contrac	ctor	ADMINI	STRATIV	VE LEAD	TIME:		3 months			PRODUC	CTION L	EADTIM	E:	6 months			
Contract Dates:			FY 1999		N/A			FY 2000		N/A				FY 2001		01/01					
Delivery Date:			FY 1999		N/A			FY 2000		N/A				FY 2001		06/01					

MODIFICATION TITLE (Cont): Collective Protection System Amphibious Backfit (LSD) class (CIC), Berthing, Installation

FINANCIAL PLAN: (\$ in Millions)

	FY	1997																		
	and	Prior	FY	1998	FY I	1999	FY 2	2000	FY 2	2001	FY 2	2002	FY 2	2003	FY 2	2004	Т	C	TO	ΓAL
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
PROCUREMENT																				
Kit Quantity																				
Installation Kits																				
Installation Kits, Nonrecurring																				
Equipment									3	2.3									3	2.3
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data										2.9		2.1		1.4		1.4				7.8
Training Equipment																				
Support Equipment																				
Other								0.4		1.1		1.4		1		1				4.9
Interim Contractor Support																				
Installation of Hardware																				
FY 1997 & Prior Eqpt Kits																				
FY 1998 Eqpt Kits																				
FY 1999 Eqpt Kits																				
FY 2000 Eqpt Kits																				
FY 2001 Eqpt Kits													1	1.2	1	1.1	1	1	3	3.3
FY 2002 Eqpt Kits																				
FY 2003 Eqpt Kits																				
FY 2004 Eqpt Kits																				
TC Equip-Kits																				
Total Equip-Kits													1	1.2	1	1.1	1	1	3	3.3
Total Procurement Cost								0.4		6.3		3.5		3.6		3.5		1		18.3

Date:

Date:

February 1999

MODIFICATION TITLE: Collective Protection System Amphibious Backfit (LHA) class (CIC), Berthing, Medical, Installation

MODELS OF SYSTEM AFFECTED: Landing Assault Helicopter (LHA) Class, Combat Information Center (CIC), Berthing, Medical space backfit

DESCRIPTION/JUSTIFICATION:

Shipboard Collective Protection System (CPS) will be installed on the Landing Helicopter Assault (LHA) ship class (LHA 1-5) in mission critical Combat Information Center (CIC), Berthing, and Medical Spaces. CPS backfit efforts will include ship surveys, engineering design analysis, detail design (Shipboard Installation Drawings (SIDs)), development of modular installation packages, procurement of hardware, logistic warehousing and staging, and installation via Alteration Installation Teams (AITs). Procurement of Government Furnished Equipment (GFE) is required. CPS backfit installation process is being designed to maximize flexibility in procuring, receiving, warehousing, and assembling the necessary installation kits to meet the challenges associated with changing ship availabilities.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

1992 - SACPS accomplished milestone III

1993 - CPS accomplished milestone IIIB

1994-1998 - CPS design improvements

1996 - SACPS installed on LHA-2, LHA-4 Combat Information Center (CIC), and Radar room

1997 - Quadrennial Defense Review cites need for additional ship backfits

Installation Schedule:																					
	Pr Yr		FY	1998			FY	1999			FY 2	000			FY 2	2001			FY 2	002	
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	3 4	1 1	2	3	4
Inputs																				1	
Outputs																					
		FY	2003			FY 2	2004			FY:	2005			FY 20	006			То			Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	Complete			
Inputs			1			3															5
Outputs										1		1		1		1		1			5
METHOD OF IMPLEM	IENTATION	1 :	In-House	/ Contrac	tor	ADMINI	STRATI	VE LEAD	TIME:		3 months		P	RODUC'	TION LI	EADTIM	IE:	6 months			
Contract Dates:			FY 1999					FY 2000					F	Y 2001							
Delivery Date:			FY 1999					FY 2000					F	Y 2001							

MODIFICATION TITLE (Cont): Collective Protection System Amphibious Backfit (LHA) class (CIC), Berthing, Medical, Installation

FINANCIAL PLAN: (\$ in Millions)

	FY:	1997																		
	and	Prior	FY I	1998	FY I	1999	FY 2	2000	FY 2	2001	FY 2	2002	FY 2	2003	FY 2	2004	T	C	TOT	ΓAL
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
PROCUREMENT																				
Kit Quantity																				
Installation Kits																				
Installation Kits, Nonrecurring																				
Equipment											1	1.8	1	1.8	3	3.4			5	7
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data												1.1		1.8		2.1				5
Training Equipment																				
Support Equipment																				
Other										0.4		1.1		1.5		2				5
Interim Contractor Support																				
Installation of Hardware																				
FY 1997 & Prior Eqpt Kits																				
FY 1998 Eqpt Kits																				
FY 1999 Eqpt Kits																				
FY 2000 Eqpt Kits																				
FY 2001 Eqpt Kits																				
FY 2002 Eqpt Kits																				
FY 2003 Eqpt Kits																	2	8.5	2	8.5
FY 2004 Eqpt Kits																	3	12.5	3	12.5
TC Equip-Kits																				
Total Equip-Kits																	5	21	5	21
Total Procurement Cost										0.4		4		5.1		7.5		21		38

Date:

Ex	hibit P-40, Budge	t Item Justific	cation Sheet					Date:		February 1999		
Appropriation/Budget Activity	y/Serial No: PROCUREMENT DE	FENSE-WIDE/3/	CHEM-BIO DEFE	NSE		P-1 Item Nomeno		017) JOINT COLLEC			VEMENTS	
Program Elements for Code B	Items:			Code:	Other Related	Program Elements:	:					
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	0	0	0	0	1.2	1.1	0.7	0.7	4.5	4.6	Continuing	Continuing
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0	0	0	0	1.2	1.1	0.7	0.7	4.5	4.6	Continuing	Continuing
Initial Spares												
Total Proc Cost	0	0	0	0	1.2	1.1	0.7	0.7	4.5	4.6	Continuing	Continuing
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: The objective of this program is to procure equipment to support the requirement for Chemical/Biological (CB) Collective Protection systems. Systems to be fielded include:

- (1) Joint Collective Protection Equipment (JCPE) provides needed improvements and cost saving standardization to currently fielded systems. JCPE will use the latest technologies in filtration, shelter materials, and environmental controls to provide affordable, lightweight, easy to operate and maintain equipment.
- (2) Joint Transportable Collective Protection Shelter (JTCOPS) is a lightweight, modular, self-supporting collective protection shelter system that will provide relief from psychological and pysiological stresses during sustained operations in a contaminated environment. It will be used as stand-alone billeting, medical, and operational facilities, or within fixed facilities to take advantage of existing stuctures. It will be equipped with environmental control, NBC filters and blowers, and power generation systems.

JUSTIFICATION: FY00 - FY01 JCPE funds will be used to initiate procurement of improved filters, motor blowers, environmental control units, and auxiliary power units for existing fielded equipment (M20A1, M28, fixed sites, etc.).

Exhibit P-40C, Budget Item Justification Sheet				Date: February 1999
Appropriation/Budget Activity/Serial No: PROCUREMENT DEFENSE-WIDE/3/CHEM-BIO DEFENSE			P-1 Item Nomenclature	(JN0017) JOINT COLLECTIVE PROT SYSTEMS & IMPROVEMENTS
Program Elements for Code B Items: 0604384BP, Project C05	Code: B	Other Related l	Program Elements:	

RDT&E Code B Item

Joint Collective Protection Equipment (JCPE) provides needed improvements and cost saving standardization to currently fielded systems. Joint Transportable Collective Protection Shelter (JTCOPS) is a lightweight, modular, self-supporting collective protection shelter system that will provide relief from psychological and pysiological stresses during sustained operations in a contaminated environment.

JCPE: FY00 - \$2.4; FY01 - \$2.6; FY02 - \$2.5; FY03 - \$2.3; FY04 - \$2.4; FY05 - \$2.5 FY01 - Complete development of motor blower, HEPA filter, and APU/ECU improvements.

JTCOPS: FY00 - \$2.6; FY01 - \$3.1; FY02 - \$3.0; FY03 - \$2.6; FY04 - \$2.2; FY05 - \$2.8

FY01 - Select and acquire components

FY01/02 - Test components FY02/03 - PPT/Log Demo FY03 - Conduct IOT&E

Date:

February 1999

MODIFICATION TITLE: Joint Collective Protection Equipment

MODELS OF SYSTEM AFFECTED: Multiple Collective Protection Systems

DESCRIPTION/JUSTIFICATION:

DESCRIPTION: The objective of this program is to procure equipment to support the requirement for Chemical/Biological (CB) Collective Protection Systems. Systems to be fielded include:

(1) Joint Collective Protection Equipment & Improvements (JCPE) provides needed improvements and cost saving standardization to currently fielded systems. JCPE will use the latest technologies in filtration, shelter materials, and environmental controls to provide affordable, lightweight, easy to operate and maintain equipment.

JUSTIFICATION: FY00 - FY01 JCPE funds will be used to initiate procurement of improved filters, motor blowers, environmental control units, and auxiliary power units for existing fielded equipment (M20A1, M28, fixed sites, etc.).

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

JCPE will employ multiple procurement of various individual items to support improvements and standardization to current Collective Protection systems.

For the Installation Schedule Below:

Procure Environmental Control Units for Portable Collective Protection System FY00-FY04

Procure Improved HEPA Filters FY02-FY04

Procure Improved Motors/Blowers FY02-FY04

Procure Lightweight Auxiliary Power Units FY04

Installation Schedule:																					
	Pr Yr		FY	1998			FY 1	1999			FY 2	2000			FY 2	2001			FY 2	002	
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs													50	10	10	10	10	32	32	31	30
Outputs													25	15	15	14	14	10	10	9	9
																					·
		FY 2	2003			FY 2	2004			FY 2	2005			FY 2	2006			То			Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	C	Complete			
Inputs	32	32	31	30	88	87	85	75													675
Outputs	10	10	9	9	118	118	118	118										44			675
METHOD OF IMPLEMEN	NTATION	ſ:	Stock Ite	m		ADMINI	STRATIV	/E LEAD	TIME:		2 Months]	PRODUC	TION LI	EADTIM	E:	10 Month	S		
Contract Dates:			FY 1999					FY 2000		12/99]	FY 2001		12/00					
Delivery Date:			FY 1999					FY 2000		9/00]	FY 2001		9/01					

MODIFICATION TITLE (Cont): Joint Collective Protection Equipment

FINANCIAL PLAN: (\$ in Millions)

	FY 1	1997																		
	and I	Prior	FY 1	.998	FY 1	1999	FY 2	2000	FY 2	2001	FY 2	2002	FY 2	2003	FY 2	2004	Т	C	TOT	ſAL
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E								2.4		2.6		2.5		2.4		2.4				12.3
PROCUREMENT																				
Kit Quantity																				
Installation Kits																				
Installation Kits, Nonrecurring																				
Equipment							50	1	40	0.8	125	0.5	125	0.5	335	1.6			675	4.4
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Other								0.1		0.1		0.1		0.1		0.3				0.7
Interim Contractor Support																				
Installation of Hardware																				
FY 1997 & Prior Eqpt Kits																				
FY 1998 Eqpt Kits																				
FY 1999 Eqpt Kits																				
FY 2000 Eqpt Kits							25	0.1	25	0.1									50	0.2
FY 2001 Eqpt Kits									33	0.1	7								40	0.1
FY 2002 Eqpt Kits											31	0.1	38	0.1	56	0.1			125	0.3
FY 2003 Eqpt Kits															125	0.2			125	0.2
FY 2004 Eqpt Kits															291	0.5	44		335	0.5
TC Equip-Kits																				
Total Equip-Kits							25	0.1	58	0.2	38	0.1	38	0.1	472	0.8	44		675	1.3
Total Procurement Cost								1.2		1.1		0.7		0.7		2.7				6.4

Date:

Ext	nibit P-40, Budge	t Item Justific	cation Sheet					Date:		February 1999		
Appropriation/Budget Activity	/Serial No: PROCUREMENT DE	FENSE-WIDE/3/	CHEM-BIO DEFE	NSE		P-1 Item Nomeno	clature	(JX0004) CO SYS	STEM FIELDING	SUPPORT/SPAR	ES	
Program Elements for Code B	Items:			Code:	Other Related	Program Elements	:					
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	0	0.1	0.2	0	0	0	0	0	0.3	0.3	Continuing	Continuing
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0	0.1	0.2	0	0	0	0	0	0.3	0.3	Continuing	Continuing
Initial Spares												
Total Proc Cost	0	0.1	0.2	0	0	0	0	0	0.3	0.3	Continuing	Continuing
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: System Fielding Support funds provide for Total Package Fielding (TPF), First Destination Transportation (FDT) and New Equipment Training (NET) for Collective Protection Systems funded within the Chemical/Biological Defense Program (CBDP). TPF is the standard method of fielding new equipment developed under the CBDP Modernization program. The materiel developer plans, develops, acquires and deploys the materiel systems, including Associated Support Items of Equipment (ASIOE) and Support List Allowance Cards (SLAC) items through a physical handoff to the user. TPF costs include SLAC items, deprocessing, temporary duty (TDY), salaries and Stock Fund managed equipment. FDT funds for transportation required to support shipment of chemical equipment from manufacturing plants and assembly points to the first point of acceptance receipt or storage point by the Government (depot), customer or port. (NOTE: Excludes transportation costs paid by a vendor as prescribed in a procurement contract). The NET process begins very early in the life cycle of a system and provides for the development of the Qualitative and Quantitative Personnel Requirement Information (QQPRI), the NET Plan, and training courses for trainers to conduct these courses for the proper and safe use of the new equipment.

Ex	hibit P-40, Budge	t Item Justific	ation Sheet					Date:		F.1 1000		
Appropriation/Budget Activity						P-1 Item Nomeno	clature			February 1999		
rippropriation/Buaget rictivity	PROCUREMENT DE	FENSE-WIDE/3/	CHEM-BIO DEFE	NSE		1 1 Hem Promen	ciatare	(R12301) CB	PROTECTIVE SH	IELTER (CBPS)		
Program Elements for Code B	Items:			Code:	Other Related	Program Elements:	:					
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty	29	12	47	37	32	34	38	37	45	44	Continuing	Continuing
Gross Cost	16.3	5.2	19.2	16.4	14.0	14.6	16.5	16.5	20.6	20.7	Continuing	Continuing
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	16.3	5.2	19.2	16.4	14.0	14.6	16.5	16.5	20.6	20.7	Continuing	Continuing
Initial Spares												
Total Proc Cost	16.3	5.2	19.2	16.4	14.0	14.6	16.5	16.5	20.6	20.7	Continuing	Continuing
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: The Chemical Biological Protective Shelter (CBPS) is a new system designed to replace the M51 Chemical Protective Shelter. It consists of a Lightweight Multipurpose Shelter (LMS) mounted on an Expanded Capacity High Mobility Multi-Purpose Wheeled Vehicle (HMMWV) variant and a 300 square foot soft shelter. The CBPS provides a contamination free, environmentally controlled working area for medical, combat service, and combat service support personnel to obtain relief from the continuous need to wear chemical-biological protective clothing for greater than 72 hours of operation. All ancillary equipment required to provide protection, except the generator, is mounted within the shelter.

JUSTIFICATION: The M-51 Shelter System currently in use is overage, lacks sufficient usable floor space, degrades mobility, and requires excessive time for set up and teardown. There is a critical need for medical functions requiring the removal of individual protective clothing and masks. The Army needs a highly mobile, self-contained collective protection system which can provide a contamination free working area for Echelon I and II medical treatment facilities and other selected units. The CBPS will satisfy this need. FY 00 will procure 32 CBPS systems; FY01 will procure 34 systems. Total procurement will support fielding of 343 of 792 required to support two MRC scenerio.

Exhibit P-40C, Budget Item Justification	n Sheet			Date: February 1999
ppropriation/Budget Activity/Serial No: PROCUREMENT DEFENSE-WIDE/3/CHEM-	-BIO DEFENSE		P-1 Item Nomenclature	(R12301) CB PROTECTIVE SHELTER (CBPS)
ogram Elements for Code B Items: PE 0604384BP, Project MC5	Code: B	Other Related	Program Elements:	
DT&E Code B Item				
	te issues identified at	IOT&E-Pha	ase I required to suppor	8 - Sep 94, IOT&E-Phase I conducted Feb - Apr 98. 1t Type Classification (TC) standard. Logistics Demonstration oved for Service use in Dec 94. The projected date for

Exhibit P-5, Weapon		Appropriation/B					tem Nomenclature			Weapon System	Туре:	Date:	
WPN SYST Cost Analysis		PROCUREME		SE-WIDE/3/CHEM-	BIO DEFENSE	(R12301) C	B PROTECTIVE SE	HELTER (CBPS)				Febi	uary 1999
Weapon System	ID		FY 98			FY 99			FY 00			FY 01	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
1. CB Protective Shelter (less GFE/CFE)	В	13043	47	277.51	10268	37	277.51	9280	32	290.00	10078	34	296.41
2. GFE/CFE													
HMMWV (GFE)		2914	47	62.00	2294	37	62.00	1984	32	62.00	2108	34	62.00
High Mobility Trailer (CFE)		376	47	8.00	296	37	8.00	256	32	8.00	272	34	8.00
LMS (CFE)		1081	47	23.00	851	37	23.00	736	32	23.00	782	34	23.00
10KW TQG (GFE)		517	47	11.00	407	37	11.00	384	32	12.00	408	34	12.00
NBC Filters (GFE)		273	47	5.81	215	37	5.81	192	32	6.00	204	34	6.00
3. Engineering													
Government		803			730			818			790		
Contractor		78			588			284					
4. Data					252			90					
5. First Article Test		107											
6. Refurbishment of Test Vehicles													
7. Initial Spares					518								
TOTAL		19192			16419			14024			14642		

	Exhibit P-5a, Budget Procurement History a	and Planning						Date:	February	1999
Appropriation/Budget Activity/Serial No: PROCUREMENT DEFENSE-WI	DE/3/CHEM-BIO DEFENSE	Weapon Syste	ет Туре:		P-1 Line Ite		lature: CB PROTECTIVE SI	HELTER (C	BPS)	
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
CB Protective Shelter FY 98	Engineered Air Systems, St. Louis, MO	Option	SBCCOM, APG, MD	Jan-99	Mar-00	47	387334			
FY 99	Engineered Air Systems, St. Louis, MO	Option	SBCCOM, APG, MD	Jan-99	Nov-00	37	387334			
FY 00	Engineered Air Systems, St. Louis, MO	Option	SBCCOM, APG, MD	Aug-00	Jun-01 Feb-02	32				
FY 01	Engineered Air Systems, St. Louis, MO	Option	SBCCOM, APG, MD	Apr-01		34	407434	163		

Unit costs include GFE/CFE. Options are FFP.

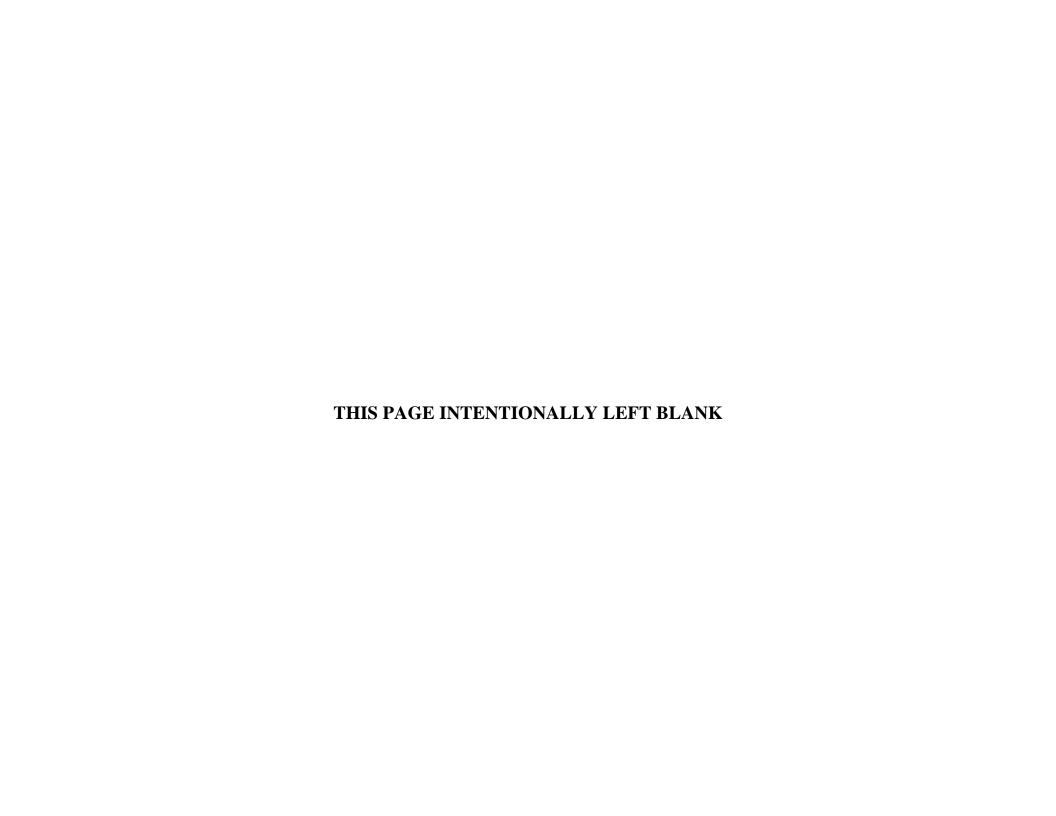
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CB PROTECTIVE SHELTER 1	СВ	PROTECTIVE SHELTER	1	FY 99	A	37		37														3	6	6	6	5	5	4	2				
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Budget Line Item #70

Contamination Avoidance



Ex	hibit P-40, Budge	t Item Justific	cation Sheet					Date:		E.1. 1000		
	-									February 1999		
Appropriation/Budget Activit	y/Serial No: PROCUREMENT DE	FENSE-WIDE/3/	CHEM-BIO DEFE	NSE		P-1 Item Nomen	clature	(GP2000) Co	ONTAMINATION	AVOIDANCE		
Program Elements for Code B	Items:			Code:	Other Related	Program Elements	:					
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	71.4	87.6	59.0	103.4	105.6	154.4	144.0	138.9	161.4	178.6	Continuing	Continuing
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	71.4	87.6	59.0	103.4	105.6	154.4	144.0	138.9	161.4	178.6	Continuing	Continuing
Initial Spares												
Total Proc Cost	71.4	87.6	59.0	103.4	105.6	154.4	144.0	138.9	161.4	178.6	Continuing	Continuing
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: Contamination Avoidance provides detection, warning and reporting, and reconnaissance systems. In the area of chemical and radiological detection, program provides for procurement of point and remote (stand-off) detection systems. The Joint Service Point Detection Program consolidates numerous individual service projects including: the M22 Automatic Chemical Agent Alarm (ACADA) which is more sensitive and responsive than current detectors and is capable of concurrent nerve and blister agent detection; the shipboard Improved (Chemical Agent) Point Detection System (IPDS), providing an upgrade to current capability by automatically detecting low concentrations of both blister and nerve agents; the AN/UDR-13 (Pocket Radiac), a tactical radiation dosimeter and ratemeter which provides a first time capability to both detect and indicate an immediate event and residual radiation doses received by troops; the Improved Chemical Agent Monitor (ICAM), a hand-held, soldier operated device for monitoring chemical agent contamination on personnel and equipment, which provides a first time, mission essential capability for monitoring nerve and blister agents contamination; and the Shipboard Automatic Liquid Agent Detector (SALAD), an externally mounted point detector that will detect liquid forms of blister and nerve agents. In the warning and reporting area, the Joint Warning and Reporting Network (JWARN) provides a first time capability to the warfighter and battlefield commanders to fully automate the NBC detection and warning process throughout the battlefield.

JUSTIFICATION: Contamination Avoidance is the primary objective of the Joint NBC Defense program. Operational forces have an immediate need to safely operate, survive and sustain operations in a NBC agent threat environment. Contamination Avoidance is highly desirable to maintain operational efficiency and minimize the need to decontaminate vehicles, equipment and areas. Advanced chemical defensive equipment is required to enhance U.S. capability to detect and identify threat agents on the battlefield. FY00 provides increased funding to support Marine Corps requirements; the NBC Reconnaissance System Block I Modification provides an upgrade to the current Army and Marine Corps M93E1 system to meet all Operational Requirements, permit logistical support by the soldier rather than by contractors, and reduces crew size to three and the Joint Service Lightweight NBCRS (FY01) to support the Marine Corps, Army, and Air Force future Joint field reconnaissance on the battlefield.

E:	khibit P-40M, Budget Item Jus	ification Sheet				1	Date:		February 1999		
Appropriation/Budget Activ PROCURE	rity/Serial No: MENT DEFENSE-WIDE/3/CHEM-BIO I	DEFENSE			P-1 Item Nomeno	lature	(GP2000) CC	NTAMINATION	AVOIDANCE		
Program Elements for Code	B Items:		Code:	Other Related I	Program Elements:						
Description		Fiscal Years									
OSIP NO.	Classification		FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	TC	Total
NBCRS Block I Main	atainability										
NA	Mission Capability		25.3	26.0	24.9	31	.8 6.4	0.0	0.0	0.0	114.4
NBCRS Block II											
NA	Mission Capability		0.0	0.0	0.0	0	0.0	5.6	34.9	71.2	111.7
Improved Point Detection	on System										
NA	Mission Capability		4.6	7.0	10.0	2	.5 2.7	2.6	4.2	0.0	33.6
Shipboard Automatic Li	quid Agent Detector										
NA	Mission Capability		0.0	2.1	1.5	4	.5 6.1	6.1	5.8	14.4	40.5
Totals			29.9	35.1	36.4	38	.8 15.2	14.3	44.9	85.6	300.2

Exhibit P-5, Weapon WPN SYST Cost Analysis		Appropriation/B			DIO DEEENGE		tem Nomenclatur			Weapon System	Туре:	Date:	1000
		PROCUREME		SE-WIDE/3/CHEM-	BIO DEFENSE		CONTAMINATION	AVOIDANCE					uary 1999
Weapon System	ID		FY 98			FY 99			FY 00	1		FY 01	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
RADIAC - Pocket AN/UDR - 13		3164			3263			2898			2846		
Joint Warning and Reporting Network (JWARN)					10174			9012			8923		
Guard and Reserve Equipment					14652			6096			1171		
System Fielding Support/Spares		885			1067			1108			1987		
Auto Chemical Agent Alarm (ACADA), M22		15722			29633			37224			48744		
RECON System, FOX NBC (NBCRS) MODS		25335			26044			24918			31752		
Joint Service Ltwt NBC Recon											39478		
Shipboard Detector Modifications		4647			9138			11515			6953		
Improved Chemical Agent Monitor		9247			9465			12788			12551		
TOTAL		59000			103436			105559			154405		
1011111		37000			103430			103339			154405		

Ex	hibit P-40, Budge	t Item Justific	ation Sheet					Date:		Fohmory 1000		
Appropriation/Budget Activity	y/Serial No: PROCUREMENT DE	FENSE-WIDE/3/	CHEM-BIO DEFE	NSE		P-1 Item Nomeno	clature	(B96801) RA	ADIAC - POCKET	February 1999 C AN/UDR - 13		
Program Elements for Code B			-	Code:	Other Related	Program Elements:	:	(, , , ,				
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty	4117	4995	4253	3768	3151	3069	4514	10511				29266
Gross Cost	3.6	3.4	3.2	3.3	2.9	2.8	3.8	7.6	0	0	0	30.6
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	3.6	3.4	3.2	3.3	2.9	2.8	3.8	7.6	0	0	0	30.6
Initial Spares												
Total Proc Cost	3.6	3.4	3.2	3.3	2.9	2.8	3.8	7.6	0	0	0	30.6
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: The AN/UDR-13 (Pocket Radiac) is a tactical radiation dosimeter and ratemeter. The Pocket Radiac provides a first time capability to measure and directly read cumulative dose from both prompt (neutron and gamma) and fallout (residual gamma) radiation. The Pocket Radiac continuously accumulates dose data and can independently display either total dose or dose rate when activated. Its pocket size (less than 2.54 cm by 12.7 cm) and weight (approximately 9.5 oz.) permits convenient use by troops on foot. Programmable warning alarms are provided for both the total dose and dose rate functions.

JUSTIFICATION: When fielded, the AN/UDR-13 will replace 40 year old and obsolete fielded equipment (IM-93) which can not measure prompt radiation and has significantly less accuracy than the AN/UDR-13. (ROC, CARDS #1206P, Approved Jul 91). FY00/01 funds will continue a new multi-year procurement effort.

Exhibit P-5, Weapon		Appropriation/B					tem Nomenclatur			Weapon System	Type:	Date:	
WPN SYST Cost Analysis		PROCUREME		SE-WIDE/3/CHEM-	BIO DEFENSE		ADIAC - POCKET	AN/UDR - 13					uary 1999
Weapon System	ID		FY 98			FY 99			FY 00			FY 01	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
Item Hardware (Multi-year)	A	2621	4253	0.62	1762	2859	0.62						
2. Item Hardware (New Contract)	A				576	909	0.63	1998	3151	0.63	1946	3069	0.63
3. Acceptance Test													
4. Engineering Change Test					100			50			50		
5. Special Tooling					100								
6. Engineering Support (Gov't)		296			363			450			450		
7. Quality Assurance		247			362			400			400		
TOTAL		3164			3263			2898			2846		

	Exhibit P-5a, Budget Procurement History and	d Planning						Date:	February	1999
Appropriation/Budget Activity/Serial No: PROCUREMENT DEFENSE-W	VIDE/3/CHEM-BIO DEFENSE	Weapon Syste	т Туре:		P-1 Line Ite	em Nomenc (B96801	lature:) RADIAC - POCKET	`AN/UDR	- 13	
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issu Date
Item Hardware FY 98	Nuclear Research Corp., Dover, NJ.	C/FP-4(3)	CECOM	Apr-98	Jan-99	4253	616	Yes		
FY 99	Nuclear Research Corp., Dover, NJ	C/FP-4(4)	CECOM	Nov-98	May-99	2859	616	Yes		
	Nuclear Research Corp., Dover, NJ	C/FP-5(1)	CECOM	Dec-98	Dec-99	909	634	Yes		Aug-98
FY 00	Nuclear Research Corp., Dover, NJ	C/FP-5(2)	CECOM	Nov-99	May-00	3151	634	Yes		
FY 01	Nuclear Research Corp., Dover, NJ	C/FP-5(3)	CECOM	Nov-00	May-01	3069	634	Yes		

REMARKS: FY99 was originally an option year to the original 3 yr MY. It was re-negotiated to a lower unit cost and a fourth year which increased the quantities by 254 units. The new MY contract unit cost is \$634.

FY 00 / 01 BUDGET PRO	DUC	CTION SC	HED	ULE			P-1 I	tem N	Nomer	nclatu (E)1) R <i>i</i>	ADIA	.C - P(OCKE	T AN	/UDR	- 13				D	ate:			Feb	ruary	1999			
											Fi	iscal Y	Year 9	98									Fi	iscal `	Year 9	9					
			S	PROC	ACCEP	BAL								Cale	endar `	Year 9	8							(Calend	ar Ye	ar 99				L A
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POCKET RADIAC	1	FY 96	A	4117		4117							279	1499	942	1397			_												_
POCKET RADIAC	1	FY 97	A	5380		5380										385	1749 17	753 1	1493												_
POCKET RADIAC	1	FY 98	A	4017		4017							A						187 1	1361 1	000	1000	469								
POCKET RADIAC	1	FY 99	A	2859		2859													\top	A	_		531	1000	1000	328					
POCKET RADIAC	1	FY 99	NG	1102		1102														A						500	602				
POCKET RADIAC	2	FY 99	A	909		909												+	\downarrow	\downarrow	A										909
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М		PRO	ODUCT	ION RATES			M	FR						ADM	MINLE	AD TII	МE		N	/IFR		Т	OTAL	L	RE	MARI	KS		,		
F NAME/LOCATION		MIN.		1-8-5	MAX.	REACHED D+	Nur		INIT	IAL			Pr	ior 1 O	oct		er 1 Oct 1	:		er 1 Oct 13	t	Af	ter 1 C	Oct				lelayed ere rec			
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2 Nuclear Research Corporation, Dover, NJ		100		1000	2000	5	1	2	INIT					2			1	_		13	+		14		•	-			not rel tor agre		
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											Fi	scal Y	Year (00									Fis	scal Y	Year 0)1					
			S	PROC	ACCEP	BAL								Cale	endar `	Year 0	00	•						C	Calend	lar Ye	ar 01				L
COST ELEMENTS	M F R	FY	E R V	QTY Each	PRIOR TO 1 OCT	DUE AS OF 1 OCT	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L		Е	C	O 1	Е	A	F E B	M A R	A P R	M A Y	J U N	J U L	U	S E P	A T E R
POCKET RADIAC	2	FY 99	A	909		909	25	50	75	100	200	200	259																		
POCKET RADIAC	2	FY 00	NG	628		628		A						238	237	153		_	+		+		\dashv						_	_	
POCKET RADIAC	2	FY 00	A	3151		3151		Α						262	262	262	262 2	262	263	263 2	63	263	263	263	263						
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Ex	hibit P-40, Budge	t Item Justific	cation Sheet					Date:		February 1999		
Appropriation/Budget Activity	y/Serial No: PROCUREMENT DE	FENSE-WIDE/3/	CHEM-BIO DEFE	NSE		P-1 Item Nomeno		47101) JOINT WARN	IING & REPORTI	NG NETWORK ((JWARN)	
Program Elements for Code B	Items:			Code:	Other Related	Program Elements	:					
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty				128		100					Continuing	Continuing
Gross Cost	0	7.0	0	10.2	9.0	8.9	11.6	10.5	12.1	12.2	Continuing	Continuing
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0	7.0	0	10.2	9.0	8.9	11.6	10.5	12.1	12.2	Continuing	Continuing
Initial Spares												
Total Proc Cost	0	7.0	0	10.2	9.0	8.9	11.6	10.5	12.1	12.2	Continuing	Continuing
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: The JWARN will provide uniform integration and analysis of NBC detection information with Command, Control, Communications and Computers Information and Intelligence (C4I2) on the battlefield to automate the NBC warning and reporting process currently performed manually by the Services. The JWARN will collectively consist of: Version 1 (V1) - JWARN Commercial Off the Shelf (COTS) materiel and JWARN software for C4I2; Version 2 (V2) - JWARN ruggedized materiel; and, Version 3 (V3) - fully hardened and survivable JWARN materiel. The JWARN is being developed for deployment with NBC detectors in the following battlefield applications: combat and armored vehicles; tactical vehicles, vans and shelters; area warning; semi-fixed sites, and fixed sites. The V3 JWARN materiel consists of: a Display/Control (D/C) for operator and subsystem interfaces; interfaces (known as universal and communications interface units) which link together to form an "Interface Architecture;" a Sample Transfer System (STS) designed to function with existing chemical detectors, e.g. the Telemetry Link Radio (TLR) for area warning and fixed site NBC detector operations; Personnel Alarms (PA); and, installation kits to mount components and tailor the V3 JWARN for specific hosts. The V3 JWARN interfaces with the ACADA/NDI, the AN/VDR-2 RADIAC Set, the M21 Remote Standoff Chemical Agent Alarm (RSCAAL), the Lightweight Standoff Chemical Agent Detector (LSCAD), NBCRS sensors, JBPDS, meteorological and communications equipment; other existing and developmental NBC detectors, existing and future command and control (C2) radios, appliques, vehicle navigation systems, collective protection equipment (CPE), and NBC analysis software. The JWARN will monitor and display NBC information received from the NBC detectors or via C4I2 and will automatically format and transmit compatible NBC reports within C4I2.

JUSTIFICATION: The JWARN provides a first-time capability to the warfighter and battlefield commanders to fully automate the NBC detection and warning process throughout the battlefield. The present operational doctrine requires soldiers to stop performing their current task, manually prepare an NBC report, and verbally transmit the report up the chain of command. This process is extremely slow, prone to data errors, and does not provide adequate early warning throughout the battlefield, resulting in high casualties. The JWARN will automatically format digital NBC reports, employ C4I2 and feed the NBC contamination information into the digitized battlefield. In addition, the JWARN V3 will provide a first-time capability to employ chemical detectors within combat and armored vehicles and tactical vans and shelters to allow an inside and outside sampling capability. JWARN will reduce warfighter casualties and eliminate a large NBC data gap existing in the Army's efforts to automate the processing of battlefield data for commanders. FY00 will procure MICAD components and FY01 will procure software/hardware components for JWARN.

Exhibit P-40C, Budget Item Justification Sheet				Date:	February 1999
Appropriation/Budget Activity/Serial No: PROCUREMENT DEFENSE-WIDE/3/CHEM-BIO DEFENSE	3		P-1 Item Nomenclature	(G47101) JOINT WARNING & REPOR	RTING NETWORK (JWARN)
Program Elements for Code B Items: 0604384BP, Project CA5	Code: B	Other Related I	Program Elements:		
RDT&E Code B Item					
The JWARN will facilitate uniform integration and analysis of NB	C detection	with C4I2.	JWARN will provid	de new capability for the digi	tal battlefield.
FY96 and prior - \$29.8M; FY97 - \$14.2M, FY98 - \$12.1M, FY99 development and test status for the JWARN (MICAD component) -1998. Service approval occurred in Dec 98.					

Exhibit P-5, Weapon		Appropriation/B					tem Nomenclatur			Weapon System	Type:	Date:	
WPN SYST Cost Analysis		PROCUREM		SE-WIDE/3/CHEM-	BIO DEFENSE		I WARN & REPOR	TING NETWORK (ruary 1999
Weapon System	ID		FY 98			FY 99			FY 00			FY 01	
Cost Elements	CD	TotalCost \$000	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost \$000	TotalCost \$000	Qty	UnitCost \$000
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
JWARN (MICAD) Component	A				6744	128	52.69						
JWARN V3	В										8223	100	82.23
First Article Test (FAT)					507						500		
Production Vertifaction Test (PVT)					1002								
Tooling					131								
Quality Assurance					154						200		
Packaging					160								
JWARN (Component)													
Interface Software								3000					
Hard Wire Interface								1512					
RF Interface								4500					
New Equipment Training (NET) Phase II					1476								
Note: program in two phases: Phase I -software procure: Phase II - Procurement of interfaces for various detectors/systems.													
TOTAL					10174			9012			8923		

	Exhibit P-5a, Budget Procurement History	-						Date:	February	ı 1999
Appropriation/Budget Activity/Serial No: PROCUREMENT DEFENSE-WIDE/3	8/CHEM-BIO DEFENSE	Weapon Syste	m Type:			em Nomenc 7101) JOINT W	lature: ARNING & REPORTI	ING NETW	ORK (JW	ARN)
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issu Date
Hardwire Interface FY 00	TBS	Option	MARCORSYSCOM, Quantico, VA	Jan-00	Jun-00	0		Yes		
JWARN (MICAD) Component FY 99	TBS	C/FFP	SBCCOM, APG, MD	May-99	Sep-99	0		Yes		Jan-98
JWARN V3 FY 01	TBS	C/FFP	MARCORSYSCOM, Quantico, VA	May-01	Sep-01	100	82.230	Yes		
RF Interface FY 00	TBS	Option	MARCORSYSCOM, Quantico, VA	Jan-00	Jun-00	0		Yes		
Software Interface FY 00	TBS	Option	MARCORSYSCOM, Quantico, VA	Jan-00	Jun-00	0		Yes		

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JW	VARN (MICAD) COMPONENT	1	FY 99	A	128	10	118	10	10	10	11	11	11	11	11	11	11	11														
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Exhib	it P-40, Budge	t Item Justific	ation Sheet					Date:		February 1999		
Appropriation/Budget Activity/Set	rial No: ROCUREMENT DE	FENSE-WIDE/3/0	CHEM-BIO DEFE	NSE		P-1 Item Nomeno	clature	(JA0004) GU	ARD & RESERV	E EQUIPMENT		
Program Elements for Code B Iter	ms:			Code:	Other Related	Program Elements:						
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	0	0	0	14.7	6.1	1.2	0	1.2	0	1.2	Continuing	Continuing
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0	0	0	14.7	6.1	1.2	0	1.2	0	1.2	Continuing	Continuing
Initial Spares												
Total Proc Cost	0	0	0	14.7	6.1	1.2	0	1.2	0	1.2	Continuing	Continuing
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: This program provides for the acquisition of Chemical and Biological Defense equipment to support the Reserve Component (RC) unit requirements as outlined in the RC Weapons of Mass Destruction (WMD) Plan. Initiates equipping (1)WMD Rapid Response Assessment Teams to provide an on-site rapid response elements at the state level, (2) RC chemical companies and medical patient decontamination teams to augment hospital patient decontamination capabilities, and (3) ARNG and Army Reserve chemical elements with initial-complement equipment required for RC deployment for WMD Reconnaissance.

JUSTIFICATION: DOD currently deploys the Marine Corps Chem/Bio Incident Response Force (CBIRF), the Army's Technical Escort Unit, and other Chem/bio and medical assets to assist civil authorities respond to WMD incidents. In order to respond to the emerging terrorist threat of "hit and run" Chem/bio attacks on American cities, this effort allows for the equipping of Reserve Component units to provide enhanced response capabilities and to provide for additional support to communities in emergency and disaster situations. This effort will allow for selected National Guard and other reserve component units to respond to and contain the effects of CB incidents in this country. FY00 procures 149 M40 Masks, 218 ICAMs, 91 ICAM simulators, 284 ACADAs, 628 Pocket RADIACs, 202 Alpha RADIACs, & 266 Beta RADIACs.

Exhibit P-5, Weapon		Appropriation/B	udget Activ	rity/Serial No.		P-1 Line I	tem Nomenclatur	e:		Weapon System	Туре:	Date:	
WPN SYST Cost Analysis		PROCUREM	ENT DEFENS	SE-WIDE/3/CHEM-	BIO DEFENSE	(JA0004) G	UARD & RESERVI	E EQUIPMENT				Febr	uary 1999
Weapon System	ID		FY 98			FY 99			FY 00			FY 01	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
1. M40 Chemical Protective Mask *					20	231	0.09	13	149	0.09			
2. ICAM*					2785	505	5.51	1200	218	5.50	497	90	5.52
3. CAM Simulator					2110	211	10.00	938	91	10.31	450	45	10.00
4. ACADA*					6640	762	8.71	2273	284	8.00			
5. Pocket RADIAC*					700	1102	0.64	387	628	0.62	121	180	0.67
6. Alpha RADIAC					1189	236	5.04	980	202	4.85			
7. Beta RADIAC					474	246	1.93	305	266	1.15			
8. Chemical Protective Bag					12	990	0.01				3	225	0.01
9. JSLIST Overgarment*					594	2970	0.20						
10. BVO					36	1980	0.02				18	990	0.02
11. Protective Glove					20	1980	0.01				19	1980	0.01
12. DECON Kit					49	90	0.54				49	90	0.54
13. Chemical Agent Detector					9	225	0.04						
14. M8 Detection Paper					2	2970					2	1980	0.00
15. M9 Detection Paper					4	990	0.00				8	1980	0.00
16. Helmet Cover					8	1980	0.00				4	980	0.00
*Program Deliveries are displayed on schedules for appropriate items.													
Note: Unit cost includes hardware and support costs.													
TOTAL					14652			6096			1171		

Exl	hibit P-40, Budge	t Item Justific	cation Sheet				D	ate:		February 1999		
Appropriation/Budget Activity	//Serial No: PROCUREMENT DE	FENSE-WIDE/3/0	CHEM-BIO DEFE	NSE		P-1 Item Nomeno	clature	(JX0002) CA SYS	STEM FIELDING	SUPPORT/SPAR	ES	
Program Elements for Code B	Items:			Code:	Other Related	Program Elements:						
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	0	1.0	0.9	1.1	1.1	2.0	2.3	2.4	3.3	3.1	Continuing	Continuing
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0	1.0	0.9	1.1	1.1	2.0	2.3	2.4	3.3	3.1	Continuing	Continuing
Initial Spares												
Total Proc Cost	0	1.0	0.9	1.1	1.1	2.0	2.3	2.4	3.3	3.1	Continuing	Continuing
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: System Fielding Support program provides for Total Package Fielding (TPF), First Destination Transportation (FDT) and New Equipment Training (NET) for Contamination Avoidance Systems funded within the Chemical/Biological Defense Program (CBDP). TPF is the standard method of fielding new equipment developed under the CBDP Modernization program. The materiel developer plans, develops, acquires and deploys the materiel systems, including Associated Support Items of Equipment (ASIOE) and Support List Allowance (SLAC) items through a physical handoff to the user. TPF costs include SLAC items, deprocessing, temporary duty (TDY), salaries and Stock Fund managed equipment. FDT funds for transportation required to support shipment of chemical equipment from manufacturing plants and assembly points to the first point of acceptance receipt or storage point by the Government (depot), customer or port. (NOTE: Excludes transportation costs paid by a vendor as prescribed in a procurement contract). The NET process begins very early in the life cycle of a system and provides for the development of the Qualitative and Quantitative Personnel Requirement Information (QQPRI), the NET Plan, and training courses for trainers to conduct these courses for the proper and safe use of the new equipment.

JUSTIFICATION: Funds will ensure (1) continued uninterrupted shipment of newly procured items to users in support of readiness and training, (2) continued and orderly fielding of Force Modernization Systems, and (3) transfer of knowledge from the materiel developer to the trainer, user, and other support personnel. FY00/01 provides support to the Auto Chemical Agent Alarm (ACADA) M22, the Radiac-Pocket AN/UDR-13, and the Improved Chemical Agent Monitor (ICAM).

Ex	hibit P-40, Budge	t Item Justific	ation Sheet				Γ	Pate:		February 1999		
Appropriation/Budget Activity	//Serial No: PROCUREMENT DE	FENSE-WIDE/3/0	CHEM-BIO DEFE	NSE		P-1 Item Nomen		198801) AUTO CHE	EMICAL AGENT	ALARM (ACAD	A), M22	
Program Elements for Code B	Items:			Code:	Other Related	Program Elements	:					
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty			1845	3380	4759	6825						16809
Gross Cost	9.5	9.7	15.7	29.6	37.2	48.7	0	0	0	0	0	150.6
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	9.5	9.7	15.7	29.6	37.2	48.7	0	0	0	0	0	150.6
Initial Spares												
Total Proc Cost	9.5	9.7	15.7	29.6	37.2	48.7	0	0	0	0	0	150.6
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: The Automatic Chemical Agent Alarm/Non-Developmental Item (ACADA/NDI) is a man-portable automatic alarm system capable of detecting blister and nerve agents/vapors. The ACADA/NDI has improved agent sensitivity, response time, and interference rejection. The ACADA/NDI detects all known agent threats. The ACADA/NDI operates with no human interference after system start-up, detects automatically for a minimum of 24 hours, provides audio and visual alarms, and has a communication interface to support battlefield automation systems. The ACADA/NDI meets the critical needs of the US Forces for an automatic point sampling chemical agent alarm.

JUSTIFICATION: FY00/01 funding will procure 4759/6825 ACADA/NDI units for Army, Air Force, Navy and Marines and supports Services modernization program. The ACADA/NDI buy provides a first time point detection capability to automatically detect blister agents. The ACADA/NDI will also allow battlefield commanders to use information obtained to make rapid and effective decisions concerning adjustment of the protective posture of their soldiers. Likewise, the ACADA/NDI will allow air base commanders to issue guidance on protective posture for air base facilities and personnel.

Exhibit P-40C, Budget Item Justification Sheet				Date: February 1999
Appropriation/Budget Activity/Serial No: PROCUREMENT DEFENSE-WIDE/3/CHEM-BIO DEFENSE	Ξ		P-1 Item Nomenclature	(M98801) AUTO CHEMICAL AGENT ALARM (ACADA), M22
Program Elements for Code B Items: 0604384BP, Project CA5	Code: B	Other Related	Program Elements:	
RDT&E Code B Item				
Preplanned Product Improvement (P3I) to M22 Automatic Chemic surface at cold temperatures.	cal Agent A	larm (ACA)	OA) for Surface Sam	pler which provides first time capability to detect agents/vapor on
FY97: \$1.9M FY98: \$.02M				
The current development and test status is as follows: Projected D7	Γ&E and O	T&E - Oct 9	98-Mar 99; TDP will	be available Jan 99.
A type classification (TC) generic is projected for May 99. TC sta	ndard is pro	ojected for N	May 00.	

Exhibit P-5, Weapon WPN SYST Cost Analysis		Appropriation/B		ity/Serial No.	BIO DEFENSE		tem Nomenclatur	e: NT ALARM (ACAD	A). M22	Weapon System	Type:	Date:	ruary 1999
Weapon System	ID		FY 98			FY 99			FY 00			FY 01	dary 1999
	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
Hardware - M22	A	13965	1845	7.57	27867	3380	8.24	35932	4759	7.55	47665	6825	6.98
Engineering Support		380			500			580			600		
Quality Assurance Support		150			62			350			350		
XM279 Surface Sampler Production Verification Test		327			1000								
Technical Data Package, ECPs					100			140			100		
M42 Vehicle Mount Brackets					4			22			29		
Hardware - XM279 Surface Samplers	В				100	100	1.00	200	200	1.00			
Shipboard Detector Mods		900											
TOTAL		15722			29633			37224			48744		

E	Exhibit P-5a, Budget Procurement History	and Planning						Date:	February	1999
Appropriation/Budget Activity/Serial No: PROCUREMENT DEFENSE-WIDE/3/C	CHEM-BIO DEFENSE	Weapon Syste	em Type:			em Nomenc 198801) AUTO (lature: CHEMICAL AGENT	ALARM (A	(CADA), M	122
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Hardware - M22 FY 98	Graseby Dynamics, LTD, Watford, UK	Option	СВОСОМ	Apr-98	Oct-98	1845	7570	Yes		
FY 99	Graseby Dynamics, LTD, Watford, UK	Option	SBCCOM	Dec-98	Apr-99	3380	8240	Yes		
FY 00	Graseby Dynamics, LTD, Watford, UK	Option	SBCCOM	Dec-99	Apr-00	4759	7550	Yes		
FY 01	TBS	C/FFP	SBCCOM	Nov-00	Mar-01	6825	6980	Yes		
Hardware - XM279 Surface Sampler FY 99	TBS	C/FFP	SBCCOM	Jul-99 Jul-00	Oct-99 Oct-00	100		Yes		
FY 00	TBS	C/FFP	SBCCOM	Jui-00	Oct-00	200	1000	Yes		

REMARKS: FY96 through FY00 programs are priced options to the Graseby Dynamics, LTD contract awarded Dec 95. FY01 new contract. First production of XM279 Surface Sampler in FY99.

FY 00 / 01 BUDGET F	RODU	CTION SC	HEDI	JLE			P-1 l			nclatu 801) z		O CHE	EMIC	'AL A	GEN'	T AL.	ARM	(ACA	ADA)	, M22	2]	Date:			Feb	ruary	1999			
											F	iscal Y	Year 9	98									F	iscal	Year 9	99					
			S	PROC	ACCEP	BAL								Cale	endar	Year	98							(Calen	dar Ye	ar 99				L
COST ELEMENTS	M F R	FY	E R V	QTY Each	PRIOR TO 1 OCT	DUE AS OF 1 OCT	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	A T E R
AGARA		EV.05	4.5	7.4	27	27						2.5												-							
ACADA ACADA	1	FY 95 FY 96	AF AF	74 1492	37 696	37 796					-	26 19	60	109	120	194	189	11 5	50	50				+-	-				-		
ACADA	1	FY 96	Ar N	201	67	134						19	00	109	120	194	109	67	67	30											
ACADA	1	FY 97	Λ	1258	583	675						130	65	60	87	76	76	89	31	31	30										
ACADA	1	FY 97	A MC	70	35	35						5	0.5	00	0/	76	76	30	31	51	30			+-							
ACADA	1	FY 97	J	98	49	49						3	25	11	13			50						+-	-				_		
ACADA	1	FY 97	AF	212	73	139							23	11	13		5	68	66												
ACADA	1	FY 98	AF	203		203							A						53	50	20	50	30	_							
ACADA	1	FY 98	A	1642		1642							A						3	139	220	220	240	270	243	244	33	30			
ACADA	1	FY 99	MC	695		695															A				7	7	85	87	88	100	321
ACADA	1	FY 99	Α	2470		2470															Α						52	175	242	300	1701
ACADA	1	FY 99	AF	49		49															A						10	19	20		
ACADA	1	FY 99	NG	762		762															Α									1	761
ACADA	1	FY 99	N	166		166															A										166
ACADA SURFACE SAMPLER	1	FY 99	A	100		100																	_					A			100
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	
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											Fi	iscal Y	Year 0	0									Fi	scal Y	Year 0	1					
			G.	PDOG	ACCEP	DAI								Cale	ndar Y	Year 0	00							(Calend	lar Ye	ar 01				L
COST ELEMENTS	M F R	FY	S E R V	PROC QTY Each	PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y		U	U	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	U	S E P	A T E R
1017				-0.5	27.																										
ACADA	1	FY 99	MC	695	374	321	100	_	100 300	21 319		158						_											\dashv	_	
ACADA	1	FY 99	A	2470	769	1701	300	-		319 110	324 141		200					_	\dashv										_		
ACADA	1	FY 99	NG	762	1	761	25	50	100	110	141	135 166	200																_		
ACADA SUBFACE SAMBLER	1	FY 99	N	166		166 100	50	50				100						_											_	_	
ACADA SURFACE SAMPLER	1	FY 99	A	100		100	30	30																					_		
ACADA	1	FY 00	A	4759		4759			A				259	450	450	450	450	450	450	450	450	450	450					\vdash	\dashv	+	
ACADA	1	FY 00	NG	284		284							207	29		_	_		29	29	29	29	23						_		
ACADA SURFACE SAMPLER	1	FY 00	A	200		200										A			50	50	50	50							+		
NORDH BORT NOL BARNI ELEK	-	1100	71	200		200													-			-									
ACADA	2	FY 01	A	6825		6825														A				525	700	700	700	700	700	700 :	2100
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	COST ELEMENTS	M F R	FY	E R V	QTY Each	PRIOR TO 1 OCT	DUE AS OF 1 OCT	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R		M A Y		J U L	A U G	S E P	A T E R
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Exl	hibit P-40, Budge	t Item Justific	ation Sheet				I	Date:		February 1999		
Appropriation/Budget Activity	//Serial No: PROCUREMENT DE	FENSE-WIDE/3/0	CHEM-BIO DEFE	NSE		P-1 Item Nomeno	clature	(MA0601) RECON	SYSTEM, FOX N	NBC (NBCRS) M	ODS	
Program Elements for Code B	Items:			Code:	Other Related	Program Elements						
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty			12	12	11	14	1	2	16	16	Continuing	Continuing
Gross Cost	46.8	56.3	25.3	26.0	24.9	31.8	6.4	5.5	33.9	35.1	Continuing	Continuing
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	46.8	56.3	25.3	26.0	24.9	31.8	6.4	5.5	33.9	35.1	Continuing	Continuing
Initial Spares												
Total Proc Cost	46.8	56.3	25.3	26.0	24.9	31.8	6.4	5.5	33.9	35.1	Continuing	Continuing
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: NBC Reconnaissance Systems (NBCRS) provides nuclear and chemical sampling, detection, and warning equipment and biological sampling equipment integrated into a high speed, high mobility, armored carrier capable of performing reconnaissance on primary, secondary, and cross country routes wherever combat forces are deployed. The system contains a vehicle-mounted surface sampler, chemical mass spectrometer, chemical agent monitor, chemical agent detector alarm, radiation detection device, navigation system, secure communications, area marking and collective protection. In addition to the already fielded capabilities, the Block I modification will be capable of remote chemical vapor detection at a distance up to 5 km, will add a communications link to the digitized battlefield thus increasing warning times and improving soldier survivability, and will reduce crew size from four to three.

JUSTIFICATION: FY00/01 Fox NBCRS procurement continues legacy M93 system modernization and modification program to update and field M93A1 systems to the US Army and US Marine Corps. The M93A1 fully integrates for the first time the stand-off M21 chemical vapor detector into the mobility platform, and thus enables the crew to remotely deploy and operate the sensor from the fully protected crew compartment. The M93A1 also for the first time digitally integrates the on board NBC detection sensors, communications and navigation systems. This enhancement provides the crew commander full real time visibility into the operational status of system sensors and communications and provides the linkage to the digitized battlefield C4I architecture. The M93A1 modification also reduces the operational cost of the system by reducing the crew size to three soldiers/marines. The internal crew level human factors engineering changes improve crew workload distribution and reduces task complexity. M93A1 is being fielded under the unit level total package fielding concept, US Army FOX equipped unit fielding is in six or eight system increments and USMC equipped unit fielding is in two or four system increments.

COOPERATIVE AGREEMENT: A Cooperative Agreement between the U.S. and German Governments to provide supply support and configuration management of common hardware on the NBCRS was signed on 18 Apr 95. This agreement formalizes and optimizes US Non-Developmental Item NBCRS fleet supply support and enhances system life cycle Contractor Logistic Support.

INDIVIDUAL MODIFICATION

Date:

February 1999

MODIFICATION TITLE: NBCRS Block I

MODELS OF SYSTEM AFFECTED: M93 Fox NBC Reconnaissance System

DESCRIPTION/JUSTIFICATION:

The M93 will be upgraded to the M93A1 Fox NBCRS to meet Operational Requirements and reduce operations and support costs by reducing crew size to three. The M93A1 will have the capability to detect chemical contamination at a distance up to five kilometers, automatically integrate contamination information from sensors with input from on-board navigation and meteorological systems and transmit digital warning messages through the Maneuver Control System, thus increasing warning times and improving soldier survivability. A U.S. Army Chemical School study shows that the M93A1 FOX provides a significant force multiplier. Specifcally, FOX equipped divisions gain the equivalent of an additional 3.8 Maneuver Companies firepower, per day, when the FOX is employed in a chemical war.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Planned Month/Year (BLOCK I MOD) Accomplished

IPR Production DecisionJun 95Jun 95Production Contract AwardMay 96May 96First Modification Delivery (FUE)Oct 98

First Modification Delivery (FUE) Oct 98 Last Modification Complete Apr 03

Installation Schedule:																					
	Pr Yr		FY 1	1998			FY	1999			FY 2	000			FY 2	2001			FY 2	002	
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	3 .	4 1	2	3	4
Inputs	19	6	6	6	5	5	3	2	6	6	2		4	4	4		4	. 4	2		
Outputs	3	3	2		6	6	6	6	6	4	4	5	6	4	1	4	. 4	. 3	3	3	3
		FY 2	2003			FY 2	2004			FY 2	2005			FY 2	.006			То			Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	۷	1	Complete			
Inputs																					88
Outputs	3	3																			88
METHOD OF IMPLEM	IENTATION	1:	Contracto	or/Depot		ADMINI	STRATIV	/E LEAD	TIME:		3 Months		I	PRODUC	TION L	EADTIM	IE:	18 Month	ıs		
Contract Dates:			FY 1999		1/99			FY 2000		1/00			I	FY 2001		1/01					
Delivery Date:			FY 1999		6/00			FY 2000		6/01			I	FY 2001		6/02					

INDIVIDUAL MODIFICATION

MODIFICATION TITLE (Cont): NBCRS Block I

FINANCIAL PLAN: (\$ in Millions)

	FY	1997																		
	and	Prior	FY	1998	FY	1999	FY :	2000	FY	2001	FY 2	2002	FY	2003	FY	2004		TC	TO	TAL
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E		168																		168
PROCUREMENT																				
Kit Quantity																				
Installation Kits	38	43.5	12	14	12	16.6	11	15.7	14	21.4	1	2.2							88	113.4
Installation Kits, Nonrecurring																				
Equipment																				
Equipment, Nonrecurring		3.8																		3.8
Engineering Change Orders		2.1		0.7		0.5		0.5		0.8										4.6
Data		9.7																		9.7
Training Equipment																				
Support Equipment		9																		9
Other		30		4.2		5.1		5.1		5.6										50
Interim Contractor Support																				
Installation of Hardware																				
FY 1997 & Prior Eqpt Kits	19	5	19	5.3															38	10.3
FY 1998 Eqpt Kits			4	1.1	8	2.4													12	3.5
FY 1999 Eqpt Kits					5	1.4	7	2.2											12	3.6
FY 2000 Eqpt Kits							5	1.4	6	2.4									11	3.8
FY 2001 Eqpt Kits									5	1.6	9	4							14	5.6
FY 2002 Eqpt Kits											1	0.2							1	0.2
FY 2003 Eqpt Kits																				
FY 2004 Eqpt Kits																				
TC Equip-Kits																				
Total Equip-Kits	19	5	23	6.4	13	3.8	12	3.6	11	4	10	4.2							88	27
Total Procurement Cost		103.1		25.3		26		24.9		31.8		6.4								217.5

Date:

February 1999

Ex	hibit P-40, Budge	t Item Justific	cation Sheet				1	Date:		T.1 1000		
	•					1				February 1999		
Appropriation/Budget Activity	y/Serial No: PROCUREMENT DE	FENSE-WIDE/3/	CHEM-BIO DEFE	NSE		P-1 Item Nomen	clature	(MC0100) JT SVC	LTWT NBC REC	CON SYS (LNBC	RS)	
Program Elements for Code B	Items:			Code:	Other Related	Program Elements	:					
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty						21	46	40	48	58	Continuing	Continuing
Gross Cost	0	0	0	0	0	39.5	80.9	66.5	59.9	69.1	Continuing	Continuing
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0	0	0	0	0	39.5	80.9	66.5	59.9	69.1	Continuing	Continuing
Initial Spares												
Total Proc Cost	0	0	0	0	0	39.5	80.9	66.5	59.9	69.1	Continuing	Continuing
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: This is a Joint Service program effort between the U.S. Marine Corps, U.S. Army and U.S. Air Force. The Joint Service Lightweight Nuclear Biological and Chemical Reconnaissance System (JSLNBCRS) provides field commanders with real-time point and standoff intelligence for real-time field assessment of NBC hazards. The system will be a vehicle-mounted suite of NBC equipment/software to detect, collect, analyze, mark and disseminate NBC data. Two variants of the JSLNBCRS will be produced, a Light Armored Vehicle (LAV) and High Mobility Multipurpose Wheeled Vehicle (HMMWV), both variants will house the same equipment suite. An interim JSLNBCRS variant will also be procured to support the CINC's against the near-term Chem/Bio threat.

JUSTIFICATION: FY01 funding procures 15 interim systems and 6 LAV systems.

Exhibit P-40C, Budget Item Justification Sheet				Date: February 1999
Appropriation/Budget Activity/Serial No: PROCUREMENT DEFENSE-WIDE/3/CHEM-BIO DEFENSE			P-1 Item Nomenclature	(MC0100) JT SVC LTWT NBC RECON SYS (LNBCRS)
Program Elements for Code B Items: 0604384BP	Code: B	Other Related l	Program Elements:	
RDT&E Code B Item				
RDT&E: CA5: FY98 - \$4.3M, FY99 - \$7.3M, FY00 - \$6.6M				

Exhibit P-5, Weapon		Appropriation/B					tem Nomenclatur			Weapon System	Туре:	Date:	
WPN SYST Cost Analysis		PROCUREM		SE-WIDE/3/CHEM-	BIO DEFENSE		JT SVC LTWT NBO	C RECON SYS (LNI					uary 1999
Weapon System	ID		FY 98			FY 99			FY 00			FY 01	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
JSLNBCRS LAV Variant	В										14548	6	2424.67
Interim LNBCRS Variant	В										24820	15	1654.67
Engineering Support (Cont)											110		
TOTAL											39478		

Exhibit P-5a	a, Budget Procurement History and	d Planning						Date:	February	1999
Appropriation/Budget Activity/Serial No: PROCUREMENT DEFENSE-WIDE/3/CHEM-BIO DE	FENSE	Weapon System	т Туре:		P-1 Line It		lature: SVC LTWT NBC REC	ON SYS (I	.NBCRS)	
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
JSLNBCRS LAV variant FY 01	TBS	C/FFP	MARCORSYSCOM, Quantico, VA	Apr-01	Sep-01	6	2424667	No		
JSLNBCRS Interim variant FY 01	TBS	C/FFP	MARCORSYSCOM, Quantico, VA	Apr-01	Dec-01	15	1654667	No		
REMARKS:										

								P-1 I	tem N	lomer	nclatu	ıre:											I	Date:								
	FY 00 / 01 BUDGET PR	ODU	CTION SC	HED	JLE					(N	AC01	00) JT	SVC	CLTV	VT NI	BC RI	ECON	N SYS	(LN	BCRS	S)						Fel	bruary	1999			
												Fi	scal Y	Year 0	00									F	iscal	Year (01					
				s	PROC	ACCEP	BAL								Cale	endar	Year	00								Calen	dar Y	ear 01				L
		M	FY	E	QTY	PRIOR	DUE	0	N	D	J	F	M	A	M	J	J	Α	S	0	N	D	J	F	М	A	M	J	J	Α	S	A T
	COST ELEMENTS	F		R	Each	TO	AS OF	C	О	Е	A	Е	Α	P	Α	U	U	U	E	С	О	Е	Α	Е	Α	P	Α	U		U	Е	Е
	OGG! ELEMENTO	R		V		1 OCT	1 OCT	T	V	С	N	В	R	R	Y	N	L	G	P	Т	V	С	N	В	R	R	Y	N	L	G	P	R
TNIT	FEDIM ISLANDODS	2	EV 01	۸.	15		15																			A						15
_	TERIM JSLNBCRS LNBCRS LAV VARIANT	2	FY 01 FY 01	A MC	15 6		15 6																			A					2	4
191	ENDERS LAV VARIANI	1	F1 U1	MC	0		0																			А					2	4
																								_								
_																																
			•					0	N	D	J	F	M	A	M	J	J	Α	S	0	N	D	J	F	М	Α	М	J	J	Α	S	
								С	О	Е	Α	Е	Α	P	A Y	U	U	U	E	C	О	Е	Α		Α	P	A Y	U	U	U	Е	
			_				_	T	V	C	N	В	R	R		N	L	G	P	Т	V	C	N		R	R	Y	N	L	G	P	
M			PR	ODUCTI	ION RATES			M	FR							MINLE				4	MFR			TOTA		RI	EMAR	RKS				
F							REACHED	Nur						Pr	ior 1 O)ct	Af	iter 1 O	ct	Af	ter 1 (Oct	A	fter 1 (Oct	4						
R	NAME/LOCATION		MIN.		1-8-5	MAX.	D+		1	INIT					0			6			6			12								
_	TBS		2		2	4	0		_		RDER	l .			0			3			6			9		4						
2	TBS		2		2	4	0	-	2	INIT					0			6			9			15		-						
											RDER	l.			0			3			9		_	12		-						
								ł		INIT	IAL RDER															1						
										INIT		i.														1						
								ł			RDER	,																				
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								l			RDER															1						
										KEO.	I	•														1						

	FY 00 / 01 BUDGET PR	ODU	CTION SC	HEDI	JLE			P-1 I	tem N				SVC	C LTV	VT NI	BC RI	ECON	N SYS	(LN	BCR	S)]	Date:			Feb	ruary	1999			
												Fi	scal Y	Year 0		endar	Year	02						F		Year (Calend		ear 03				L
	COST ELEMENTS	M F R	FY	S E R V	PROC QTY Each	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	A T E R
IN	TERIM JSLNBCRS	2	FY 01	A	15		15			2	2	2	2	2	2	2	1															
	LNBCRS LAV VARIANT	1	FY 01	MC	6	2	4	2	2																							
\vdash																															_	
Г																																
\vdash																								-	⊢							
								O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	
M			PR	ODUCTI	ON RATES			M	FR						ADN	MINLE	AD T	IME			MFR			TOTA	L	RI	EMAR	KS				
F							REACHED	Nun	_					Pr	ior 1 O)ct	Af	ter 1 O	ct	Ai	fter 1 C	Oct	A	fter 1	Oct							
R	NAME/LOCATION		MIN.		1-8-5	MAX.	D+	1		INIT					0			6			6			12								
2	TBS TBS		2		2	4	0	2	_	INIT	RDER				0			3 6			6 9			9 15		1						
_			-		_	, T	Ű	1			RDER				0			3			9			12		1						
										INIT	IAL																					
									_		RDER															4						
										INIT	IAL RDER	,														-						
\vdash									_	INIT																1						
								1			RDER															1						

Ex	hibit P-40, Budge	t Item Justific	cation Sheet				D	Pate:		February 1999		
Appropriation/Budget Activity	y/Serial No: PROCUREMENT DE	FENSE-WIDE/3/	CHEM-BIO DEFE	NSE		P-1 Item Nomeno	clature	(N00041) SHIPBO	OARD DETECTO	R MODIFICATIO	NS	
Program Elements for Code B	Items:			Code:	Other Related	Program Elements:	:					
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	3.8	7.1	4.6	9.1	11.5	7.0	8.8	8.7	5.8	1.5	Continuing	Continuing
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	3.8	7.1	4.6	9.1	11.5	7.0	8.8	8.7	5.8	1.5	Continuing	Continuing
Initial Spares												
Total Proc Cost	3.8	7.1	4.6	9.1	11.5	7.0	8.8	8.7	5.8	1.5	Continuing	Continuing
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: The objective of this program is to procure and install Chemical and Biological (CB) defensive systems for surface ships and Naval facilities to support the requirement to sustain operations in a CB threat environment. Systems to be fielded include:

The Improved Point Detection System (IPDS) which replaces the Chemical Agent Point Detection System MK 21 Mod 1 and provides expandable point detection of Chemical Warfare vapor agents. Milestone III occurred in 3QFY95. The program provides for the installation of IPDS on amphibious, combat, and select combat support ships by Alteration Installation Teams headed by Naval Surface Warfare Center, Crane. The inventory objective is 269 systems.

The Shipboard Automatic Liquid Agent Detector (SALAD) which provides point detection of liquid Chemical Warfare agents. Low rate initial production approved in 4QFY98. Milestone III is planned for 2QFY01. The program provides for the procurement of SALAD for amphibious, combat and select combat support ships and selected Naval facilities. The current program under this line item covers limited installations by Alteration Installation Teams headed by Naval Surface Warfare Center, Crane. Current plans call for maximizing the concurrent installation with IPDS to minimize installation costs and schedule. Inventory objective is 269 systems with one system per ship.

JUSTIFICATION: The FY00-01 funds will be used to complete the procurement of the Improved Point Detection System hardware, by exercising the last contract option, and continue installation of units in the fleet. The FY00-01 funds will be used to support the Shipboard Automatic Liquid Agent Contract, exercise the first full rate production option and begin installation of delivered systems.

Date:

February 1999

MODIFICATION TITLE: Improved Point Detection System

MODELS OF SYSTEM AFFECTED: To be installed on amphibious, combat, and selected combat support ships.

DESCRIPTION/JUSTIFICATION:

IPDS replaces the Chemical Agent Point Detection System (CAPDS) MK 21, Mod 1 and provides greater sensitivity, faster response time, increased agent detection (nerve and blister) and is expandable for new and novel CW agent vapors. The program provides for the installation of IPDS on amphibious, combat, and selected combat support ships by Alteration Installation Teams headed by NSWC, Crane. The inventory objective is 269.

Notes:

- 1. Installation costs per unit varies with selected type of ship.
- 2. First Article Test Units will be used as trainers.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

	Planned	Accomplished
MS III	Jun 95	Jun 95
Contract Award	Sep 96	Oct 96
First Delivery	Feb 99	
2nd Contract Award	Jan 99	

Installation Schedule:

	Pr Yr		FY	1998			FY 1	1999			FY 2	2000			FY 2	2001			FY 2	002	
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs							29	36	36	32	3	24	24	24	24	24	13				
Outputs							16	16	16	16	16	16	16	9	9	9	9	9	9	9	9
		FY	2003			FY 2	2004			FY 2	2005			FY 2	006			To			Totals
	1	2	3	4	. 1	2	3	4	1	2	3	4	1	2	3	4	(Complete			
Inputs																					269
Outputs	9	9	8	8														51			269
METHOD OF IMPLEME	NTATION	V :	Alteratio	n/Installa	tion TM	ADMINI	STRATIV	/E LEAD	TIME:	;	3 Months		I	PRODUC	TION LE	EADTIM	E:	10 Month	s		
Contract Dates:			FY 1999		1/99			FY 2000		12/99			1	FY 2001							
Delivery Date:			FY 1999		10/99			FY 2000		6/00			I	FY 2001							

MODIFICATION TITLE (Cont): Improved Point Detection System

FINANCIAL PLAN: (\$ in Millions)

	FY	1997																		
	and	Prior	FY	1998	FY:	1999	FY 2	2000	FY 2	2001	FY 2	2002	FY:	2003	FY:	2004	Т	C	TO	ΓAL
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E		22.8																		22.8
PROCUREMENT																				
Kit Quantity																				
Installation Kits																				
Installation Kits, Nonrecurring																				
Equipment	94	7.5	36	2.1	43	2.6	90	5.6											263	17.8
Equipment, Nonrecurring	3	0.5			3	0.6													6	1.1
Engineering Change Orders		0.3		0.1		0.1		0.1												0.6
Data						0.1		0.1												0.2
Training Equipment																				
Support Equipment																				
Other		2.1		0.8		0.7		0.8		0.1		0.1								4.6
Interim Contractor Support																				
Installation of Hardware FY 1997 & Prior Eqpt Kits FY 1998 Eqpt Kits FY 1999 Eqpt Kits FY 2000 Eqpt Kits FY 2001 Eqpt Kits FY 2002 Eqpt Kits FY 2003 Eqpt Kits		0.5	24	1.6	43	2.9	30 15	2.3 1.1	21 15	1.4 1	31 5	2.2 0.4	34	2.6			51	4.2	97 36 46 90	7.3 2.5 3.2 7.2
FY 2004 Eqpt Kits FY 2004 Eqpt Kits TC Equip-Kits																				
Total Equip-Kits		0.5	24	1.6	43	2.9	45	3.4	36	2.4	36	2.6	34	2.6			51	4.2	269	20.2
Total Procurement Cost		10.9		4.6		7		10		2.5		2.7		2.6				4.2		44.5

Date:

February 1999

Date:

February 1999

MODIFICATION TITLE: Shipboard Automatic Liquid Agent Detector (SALAD)

MODELS OF SYSTEM AFFECTED: To be installed on amphibious, combat, and selected combat support ships and at selected Naval facilities.

DESCRIPTION/JUSTIFICATION:

SALAD provides automatic point detection of liquid chemical warfare agents in a marine environment. SALAD replaces the manual MK8/MK9 paper detectors. The plan is to install the SALAD on amphibious, combat, and selected combat support ships and at selected Naval facilities, maximizing concurrent installation with the IPDS to minimize installation costs and schedule. Inventory objective is 269 with 1 system per ship.

Notes:

- 1. Installation costs vary with type of ship and facility.
- 2. First Article Test Units will be used as trainers.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

PLANNED

ACCOMPLISHED

MS I/II

May 93

Low Rate Initial Production Approval

Sep 98

RFP Available

Oct 98

Contract Award

3QFY99

Full Rate Production Decision

2QFY01

Installation Schedule:																					
instantion beneduc.	Pr Yr		FY	1998			FY 1	999			FY 2	000			FY 20	001			FY 20	002	
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs											2	2			4			4	12	12	12
Outputs											1	1							4	6	6
		FY 2	2003			FY 2	2004			FY 2	2005			FY 20	006			То			Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	(Complete			
Inputs	16	18	18	18	18	18	18	18	18	18	18	16	9								269
Outputs	4	4	3	3														237			269
METHOD OF IMPLEME	NTATION	:				ADMINI	STRATIV	E LEAD	TIME:		6 Months		I	PRODUC	ΓΙΟΝ LE	ADTIMI	Е:	10 Month	S		
Contract Dates:			FY 1999		4/99]	FY 2000					I	FY 2001		4/01					
Delivery Date:			FY 1999		2/00]	FY 2000					I	FY 2001		2/02					

MODIFICATION TITLE (Cont): Shipboard Automatic Liquid Agent Detector (SALAD)

FINANCIAL PLAN: (\$ in Millions)

	FY	1997																		
	and	Prior	FY	1998	FY I	1999	FY 2	2000	FY 2	2001	FY 2	2002	FY 2	2003	FY :	2004	T	C	TO	ΓAL
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E		5.6		0.2																5.8
PROCUREMENT																				
Kit Quantity																				
Installation Kits																				
Installation Kits, Nonrecurring																				
Equipment					4	0.4			51	3.6	63	4.6	64	4.7	69	5.3	14	1.1	265	19.7
Equipment, Nonrecurring					4	0.7													4	0.7
Engineering Change Orders								0.1		0.1		0.1		0.1		0.1				0.5
Data						0.2		0.1		0.3										0.6
Training Equipment																				
Support Equipment																				
Other						0.8		0.6		0.5		0.5		0.5		0.4		0.5		3.8
Interim Contractor Support																				
Installation of Hardware																				
FY 1997 & Prior Eqpt Kits																				
FY 1998 Eqpt Kits																				
FY 1999 Eqpt Kits							2	0.7			6	0.3							8	1
FY 2000 Eqpt Kits																				
FY 2001 Eqpt Kits											10	0.6	14	0.8			27	1.4	51	2.8
FY 2002 Eqpt Kits																	63	3.3	63	3.3
FY 2003 Eqpt Kits																	64	3.5	64	3.5
FY 2004 Eqpt Kits																	69	3.8	69	3.8
TC Equip-Kits																	14	0.8	14	0.8
Total Equip-Kits							2	0.7			16	0.9	14	0.8			237	12.8	269	15.2
Total Procurement Cost						2.1		1.5		4.5		6.1		6.1		5.8		14.4		40.5

Date:

February 1999

Ex	hibit P-40, Budge	t Item Justific	cation Sheet					Date:		February 1999		
Appropriation/Budget Activity	y/Serial No: PROCUREMENT DE	FENSE-WIDE/3/	CHEM-BIO DEFE	NSE		P-1 Item Nomeno		S02201) IMPROVED		·	(ICAM)	
Program Elements for Code B	Items:			Code:	Other Related	Program Elements	:					
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty	2984	435	1933	1927	2984	3003						9847
Gross Cost	4.2	3.1	9.2	9.5	12.8	12.6	0	0	0	0	0	51.4
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	4.2	3.1	9.2	9.5	12.8	12.6	0	0	0	0	0	51.4
Initial Spares												
Total Proc Cost	4.2	3.1	9.2	9.5	12.8	12.6	0	0	0	0	0	51.4
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: The Improved Chemical Agent Monitor (ICAM) is a hand-held, soldier operated device for monitoring chemical agent contamination on personnel and equipment. The ICAM detects vapors from chemical agents on the surface by sensing the molecular ions of specific mobilities (time-of-flight). It uses special timing and microprocessor techniques to reject interference and false alarms. The ICAM can detect and discriminate between vapors of nerve and blister agents. The ICAM consists of a drift tube, electronics board, molecular sieve, vacuum pump, and buzzer. It includes expendables such as batteries, a battery pack, test simulant, and dust filters. The ICAM weighs five (5) pounds and measures 4" x 7" x 15".

JUSTIFICATION: FY00 funds continue production under the FY 96 multi-year contract. It includes increased funding in support of the Services modernization program. The ICAM is an improved version of the already-fielded Chemical Agent Monitor (CAM). The CAM provided a first time, mission essential, capability for monitoring nerve and blister agent contamination. It identifies and provides a positive indication of specific areas and relative levels of contamination hazard. The ICAM upgrades the CAM by significantly reducing maintenance burdens and improving reliability and maintainability. FY00 procures 2984 ICAMs; FY01 funding procures 3003 ICAMs.

COOPERATIVE AGREEMENT: The CAM was developed by Graseby Ionics Ltd., Watford, England for the United Kingdom (UK) Ministry of Defense (MOD). The improvements leading to the ICAM were developed by Graseby for the U.S. The U.S. Government has a license agreement with Graseby, which requires payment of a \$208 royalty for each of the first 30,000 units (CAM and ICAM combined). The FY96 procurement was the first competitive procurement permitted under this agreement.

Exhibit P-5, Weapon		Appropriation/B					tem Nomenclatur			Weapon System	Type:	Date:	
WPN SYST Cost Analysis		PROCUREME		SE-WIDE/3/CHEM-	BIO DEFENSE		MPROVED CHEM A	AGENT MONITOR					uary 1999
Weapon System	ID		FY 98			FY 99			FY 00			FY 01	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
1. Hardware	A	6771	1933	3.50	5976	1927	3.10	8182	2984	2.74	8269	3003	2.75
2. Royalty Payment (Graseby)		402			401			621			625		
3. VE share to Intellitec		540			1054			1587			817		
4. Batteries		86			87			137			141		
5. Battery packs		94			100			159			164		
6. Replacement Assemblies	A				226	88	2.57						
7. CAM Training Simulator	A	459	51	9.00	900	100	9.00	1395	151	9.24	1204	129	9.33
8. Engineering Support		895			721			707			1331		
TOTAL		9247			9465			12788			12551		

							1	ebruary	1999
IO DEFENSE	Weapon System	m Type:		P-1 Line Ite			ENT MONI	TOR (ICA	M)
Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Intellitec, Deland, FL	C/FPM/3(2)	SBCCOM, APG, MD	Dec-97	Mar-99	1933	3502	Yes		
Intellitec, Deland, FL	C/FPM-3(3)	SBCCOM, APG, MD	Dec-98	Oct-99	1927	3101	Yes		
Intellitec, Deland, FL	C/FPM-(OP)	SBCCOM, APG, MD	Dec-99	Jul-00	2984	2742	Yes		
Intellitec, Deland, FL	C/FPM-(OP)	SBCCOM, APG, MD	Dec-00	Jul-01	3003	2754	Yes		
<u> </u>		1 1							
Graseby, UK	SS/FP	SBCCOM, APG, MD	Dec-98		1927	208	Yes		
Graseby, UK	SS/FP	SBCCOM, APG, MD	Dec-99		2984	208	Yes		
Graseby, UK	SS/FP	SBCCOM, APG, MD	Dec-00		3003	208	Yes		
	G EED A		T. 1 00		4000	250			
' '		1 1							
Intellitec, DeLand, FL	C/FPM	SBCCOM, APG, MD	Dec-99		2984	532	Yes		
Intellitec, DeLand, FL	C/FPM	SBCCOM, APG, MD	Dec-00		3003	279	Yes		
	Intellitec, Deland, FL Graseby, UK Graseby, UK Graseby, UK Graseby, UK Intellitec, DeLand, FL Intellitec, DeLand, FL Intellitec, DeLand, FL	Intellitec, Deland, FL	Intellitec, Deland, FL	Intellitec, Deland, FL	Contract Method and Type Intellitec, Deland, FL C/FPM/3(2) SBCCOM, APG, MD Dec-97 Dec-98 Oct-99 Intellitec, Deland, FL C/FPM-(OP) SBCCOM, APG, MD Dec-99 Jul-00 Dec-00 Jul-01 Graseby, UK SS/FP SBCCOM, APG, MD Dec-98 Graseby, UK SS/FP SBCCOM, APG, MD Dec-99 Dec-98 Graseby, UK SS/FP SBCCOM, APG, MD Dec-99 Dec-	Contract Method and Type Contract Method and Type Location of PCO Award Date of First QTY Delivery Each C/FPM/3(2) Intellitec, Deland, FL C/FPM-3(3) Intellitec, Deland, FL C/FPM-(OP) Intellitec, Deland, FL C/FPM-(OP) SBCCOM, APG, MD Dec-97 Dec-98 Oct-99 1927 Dec-99 Jul-00 2984 Intellitec, Deland, FL C/FPM-(OP) SBCCOM, APG, MD Dec-00 Jul-01 3003 Graseby, UK SS/FP SBCCOM, APG, MD Dec-98 Dec-99 Jul-01 3003 Graseby, UK SS/FP SBCCOM, APG, MD Dec-98 Dec-99 Jul-01 3003 Feb-98 1927 Graseby, UK SS/FP SBCCOM, APG, MD Dec-99 Dec-99 2984 Graseby, UK SS/FP SBCCOM, APG, MD Dec-99 Dec-99 1927 Intellitec, DeLand, FL C/FPM SBCCOM, APG, MD Feb-99 Intellitec, DeLand, FL C/FPM SBCCOM, APG, MD Feb-99 Intellitec, DeLand, FL C/FPM SBCCOM, APG, MD Feb-99 1933 Intellitec, DeLand, FL C/FPM SBCCOM, APG, MD Feb-99 1927 Dec-99 2984	Contract	Contract Method and Type Location of PCO Award Date Date of First QTY Unit Cost Specs Avail Now?	Contract Method and Type

REMARKS: Royalties - See Cooperative Agreement information on P-40.

	FY 00 / 01 BUDGET P	RODU	CTION SC	HEDI	JLE			P-1 I			nclatu 01) IN		VED	СНЕ	EMIC <i>i</i>	AL A	GENT	Г МО	NITO	OR (IC	CAM))]	Date:			Feb	oruary	1999	1		
						A GGER	D.					Fi	scal Y	Year 9		endar	Year	98						F		Year 9 Calend		ear 99				L
	COST ELEMENTS	M F R	FY	S E R V	PROC QTY Each	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	A T E R
ICA	ΔM	1	FY 96	A	468		468												75	100	150	143										
ICA	ΔM	1	FY 97	A	435		435															7	150	200	78							
ICA	AM	1	FY 98	A	1933		1933			A															122	250	250	300	300	300	300	111
ICA	AM	1	FY 99	A	1907		1907															A										1907
ICA		1	FY 99	NG	505		505																	A								505
ICA		1	FY 99	N	20		20																	A								20
								0	N	D	J	F	M	A	M	J	J	A	S	0	N	D	J	F	M	A	M	J	J	A	S	
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M			PR	ODUCT	ION RATES			M	FR						ADN	MINLE	AD T	IME			MFR			TOTA	L	RI	EMAR	KS				
F R	NAME/LOCATION		MIN.		1-8-5	MAX.	REACHED D+	Nur		INIT	IAL			Pr	ior 1 O 8	Oct	Af	ter 1 O	ct	Af	fter 1 C	Oct	A	fter 1 (Oct		8 awar pt of f		delaye	d due t	o late	
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	AM AM	1 1	FY 99 FY 99	A NG	1907 505		1907 505	154	300	300	300	250	250	250	103 189	316																
_	AM	1	FY 99	N	20		20								20																	
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	FY 00 / 01 BUDGET PR	P-1 I	1 Item Nomenclature: (S02201) IMPROVED CHEMICAL AGENT MONITOR (ICAM)														Ι	Date: February 1999														
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