	EXHIBIT R-2, F	RDT&E Budget Iten	n Justification				DATE:	
		•					Februa	ry 2006
APPROPRIATION/BUDGET ACTIVITY						R-1 ITEM NOMEN	ICLATURE	
RESEARCH DEVELOPMENT TEST & EVALUATION,	NAVY /		BA 5			0604264N, AIRCR	REW SYSTEMS DI	EVELOPMENT
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	
Total PE Cost	20.093	13.488	12.434	6.365	1.771	1.812	1.562	
0606 AIRCREW SYSTEMS DEVELOPMENT	13.455	10.738	12.434	6.365	1.771	1.812	1.562	
2877 JOINT HELMET MOUNTED QUE SYS	4.993							
9061 INTENSIFIER TUBE ADVANCED DEV	1.645							•
9999 NIGHT VISION TUBE TECHNOLOGY DEV		2.750						•

A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

The Aircrew Systems Development program provides engineering and manufacturing development (EMD) of Aviation Life Support Systems to protect aircrews from current and future threats including: directed energy weapons, chemical/biological/radiological agents/fallout, ballistic projectiles, temperature extremes, heat/fire, low concentration oxygen environments, high dynamic forces during emergency egress, and high "G" forces. The program also provides development for the following capabilities: head protection, in flight restraint and stability emergency egress and descent, escape and evasion, survival and rescue, crash protection, and anthropometric sizing for small aircrew. Acquisition initiatives include: competition, the application of streamlining initiatives, use of non-developmental items (NDI), joint and tri-service developments, and the pursuit of NATO/allied cooperative ventures, which expedite introduction of new products into Navy and Marine Corps fixed and rotary wing aircraft, reduce costs, and promote commonality.

Exhibit R-2 RDTEN Budget Item Justification (Exhibit R-2, Page 1 of 20)

	EXHIBIT	R-2a, RDT&E	Project Justific	ation					DATE:
									February 2006
APPROPRIATION/BUDGET ACTIVITY		PROGRAM EI	EMENT NUME	BER AND NAM	1E		PROJECT NU	MBER AND N	AME
RDT&E, N /	BA 5	0604264N, All	RCREW SYST	EMS DEVELO	PMENT		0606, AIRCRE	W SYSTEMS	DEVELOPMENT
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011		
0606 AIRCREW SYSTEMS DEVELOPMENT	13.455	10.738	12.434	6.365	1.771	1.812	1.562		
RDT&E Articles Qty									

A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

ESCAPE AND CRASH SAFETY: Navy Aircrew Common Ejection Seat Pre-Planned Product Improvement (NACES P3I), Advanced Crashworthy Aircrew Survival Systems (ACASS), Joint Cockpit Air Bag System (JCABS), Advanced Crash Sensor & Restraint (ACSR), Crashworthy Troop Seats (CWTS), Escape System Injury Reduction Program (ESIRP) includes Stability Improvement Program (SIP), Escape and Crashworthy Aircrew Endurance Modifications (ECAE), Mobile Aircrew Restraint System (MARS)/Tri-Service Safety Harness (TSSH).

LIFE SUPPORT/THREAT PROTECTION: Extreme Cold Weather Improvement Program/State of the Art (ECWIP/SOA), Personal Protective Apparel (PPA) formerly AMELIA, State of the Art Survival Items (SOASI), Aircrew Accommodation Expansion Program (AAEP), Aviation Oxygen Systems (AOS), Aircrew Exposure Protection Systems (AEPS) formerly Aircrew Cooling/Advanced Integrated Life Support Systems (AILSS), Common Smoke Mask (CSM), Liquid Oxygen to On-Board Oxygen Generating System (LTO), Joint Protective Air Crew Ensemble (JPACE), Combat Survivor Evader Locater (CSEL). HELMET, VISION AND DISPLAYS: Night Vision Systems (NVS), Joint Helmet Mounted Cueing System (JHMCS), Integrated Day/Night All Weather Helmet (IDNAWH), Wide Field of View (WFOV) Night Vision Goggle, JHMCS Night Attack, Agile Frequency Laser Eye Protection, and Laser Eye Protection Improvement Program (LEPIP), Joint Aircrew Laser Eye Protection Visor (JALEPV).

*FY 2005 includes Congressional Add for Lightweight Armored Troop Seat (LWATS) for H-60.

	EXH	IBIT R-2a, RDT&E Project Justification		DATE:
				February 2006
APPROPRIATION/BUDGET ACTIVITY		PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND N	AME
RDT&E, N /	BA 5	0604264N, AIRCREW SYSTEMS DEVELOPMENT	0606, AIRCREW SYSTEMS	DEVELOPMENT
D. ACCOMPLICATION OF ANIMED PROCESSA				

B. ACCOMPLISHMENTS / PLANNED PROGRAM:

SURVIVAL ELECTRONICS/LIFE SUPPORT	FY 2005	FY 2006	FY 2007	
Accomplishments / Effort / Sub-total Cost	4.746	8.406	9.320	
RDT&E Articles Qty				

ECWIP/SOASI: Continue evaluation and authorizations of state of the art survival items. Published annual message with 22 authorized items. SOA: Continue evaluations and authorizations of state of the art survival items. Published annual message with 22 authorized items. PPA: Completed fleet assessment, finalized technical data package, began procurement and fielding of the Multi-Climate Protection System. AAEP: Continue evaluating aircraft seat positions in aircraft so equipped for accommodation issues. Updated technical reports on accommodation levels in aircraft. Continue developing detailed cockpit CAD pictures. AEPS: Conduct DT testing, investigating technology improvement. Conducted tri-service users brief on ALSS. Submitted Foreign Comparative Testing (FCT) proposal for cooling system. Evaluated Joint ICD for the Integrated Aircrew Ensemble. LOX TO OBOGS (LTO): Completed oxygen system Analysis of Alternatives to determine LOX-Free solution for Advanced Hawkeye(AHE). Awarded GGU-XXX development contract.

ESCAPE & CRASHWORTHINESS	FY 2005	FY 2006	FY 2007	
Accomplishments / Effort / Sub-total Cost	5.926	1.776	2.524	
RDT&E Articles Qty				

NACES P3I: Continue retrofit of phase I NACES P3I technologies will be completed in T-45 aircraft 4th quarter FY 05. Conduct studies for integration efforts. JCABS: Continue to conduct technical reviews with Army to develop and integrate airbag technology to Navy H-60 aircraft. ACSR: Performing modeling and simulation to evaluate optimum design for advanced restraint integrated to various rotary wing applications. Conducting trade study to establish pricing for candidate modifications. CWTS: Engineering Change Proposal was required and approved to address restraint system modifications required for two seat installations in the UH-1Y aircraft. Completed detailed design, and proof of concept testing. Conduct studies for integration efforts. Revised design will be delivered as part of new production deliveries to aircraft prime contractor. ESIRP: Completed developmental testing (DT) of aero stabilization system. Experienced test anomaly during system qualification testing that required a revised design approach to control seat stability. Completed detailed design work and DTI testing of revised design approach (Fast drogue). CDR II and follow on system qualification testing is scheduled for 4th quarter FY 05. ECAE: Commenced limited testing (DT) of endurance modifications for ejection and crashworthy applications. MARS: Completed developmental testing (DT) in SH-60B and SH-60F legacy aircraft. Engineering Change Proposal being reviewed by NAVAIR Configuration Control Board for approval. Retrofit of MARS in SH-60B and SH-60F will commence 4th quarter FY 05. Due to developmental test anomaly in HH-60H, MARS installation will be delayed until completion of enhanced MARS retractor is qualified for in MH-60S. Completed prototype of new aircrew mounted interface system. Developmental testesting has started to qualify the airsave interface. The new aircrew mounted interface system will be fielded concurrently with MARS installation in MH-60S. Common MARS: Commenced work on replacing existing gunners belt with more capab

	EXHIBIT	ΓR-2a, RDT&E	Project Justifica	tion		DATE:
						February 2006
APPROPRIATION/BUDGET ACTIVITY		PROGRAM EL	EMENT NUMBE	ER AND NAME	PROJECT NUMBER AND N	IAME
RDT&E, N /	BA 5	0604264N, AIR	CREW SYSTE	MS DEVELOPMENT	0606, AIRCREW SYSTEMS	DEVELOPMENT
HELMETS, VISION & DISPLAY	FY 2005	FY 2006	FY 2007			
Accomplishments / Effort / Sub-total Cost	2.783	0.556	0.590			
RDT&E Articles Qty						
	•	•	•			
	•		•			

NVS: Continuing Fleet support of fielded product. JHMCS: Completed OPEVAL. JHMCS Night Attack: Completed CDR. First DT asset deliverey due September 2005. JALEPV: Continue Fleet assessment. MS III decision scheduled for September 2005. PCA Complete. IDNAWH: Feasibility study completed on integration of capability into JHMCS Night Attack. Agile Frequency Laser: Continue development, conduct PDR.

	EXHIBIT	R-2a, RDT&E	Project Justification		DATE:
	1				February 2006
APPROPRIATION/BUDGET ACTIVITY			EMENT NUMBER AND NAME	PROJECT NUMBER AND	
RDT&E, N /	BA 5	0604264N, AIR	CREW SYSTEMS DEVELOPMENT	0606, AIRCREW SYSTEM	S DEVELOPMENT
C. PROGRAM CHANGE SUMMARY					
Funding:	FY 2005	FY 2006	FY 2007		
Previous President's Buget:	14.617	10.902	11.171		
Current BES / President's Budget:	13.455	10.738	12.434		
Total Adjustments	-1.162	-0.164	1.263		
Summary of Adjustments					
Congressional Reductions					
Congressional Rescissions					
Congressional Undistributed Reductions	-0.049	-0.114			
Congressional Increases					
Economic Assumptions		-0.050	0.219		
Miscellaneous Adjustments	-1.113		1.044		
Subtota		-0.164	1.263		

2Q 07 F N/A F 4Q 05 I 4Q 05 3Q 05	EASON Rescoped eff Program disc Program reb	MS DEVELO			PROJECT NUMBER 0606, AIRCREW SY	February 2006 R AND NAME STEMS DEVELOPMENT
TO R 2Q 07 F N/A F 4Q 05 4 4Q 05 3Q 05	EASON Rescoped eff Program disc Program reb	MS DEVELO	PMENT			
2Q 07 F N/A F 4Q 05 I 4Q 05 3Q 05	escoped eff Program disc Program reb		cy aircraft to A	trancod Hawk		
	Slip due to o Program has	delay in meet been rescop	n perspective of the control of the	candidate dela criteria. edesign require	ying SBIR.	
1Q 05-4Q 08 1Q 04-3Q 05 4Q 05-4Q 08 4Q 05-3Q 06 1Q 04-1Q 06	DT/OT exter Program ha Incrementa Redesign r Technical p	nded to develus been resco I funding dela equired. Problems end	op seats for UI oped - product ay. countered with	H-1Y helicopte redesign required drogue sub systems.	er. red. estem.	
4Q 05 4Q 05 1Q 05 3Q 06	Program re Accelerate	ebaselining is d LRIP sche	required. dule.	redesign requ	ired.	
FY 2006 F	Y 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete Total Cost
34.390 0.319	18.624 14.315					
3	1Q 05-4Q 08 1Q 04-3Q 05 4Q 05-4Q 08 4Q 05-3Q 06 1Q 04-1Q 06 4Q 05-4Q 08 4Q 05 4Q 05 1Q 05 1Q 05 7Q 05 1Q 05 1Q 05 1Q 05	1Q 05-4Q 08 DT/OT exter 1Q 04-3Q 05 Program ha 4Q 05-4Q 08 Incrementa 4Q 05-3Q 06 Redesign r 1Q 04-1Q 06 Technical p 4Q 05-4Q 08 Program ha 4Q 05 Program ha 4Q 05 Program na 4Q	1Q 05-4Q 08 DT/OT extended to devel 1Q 04-3Q 05 Program has been resco 4Q 05-4Q 08 Incremental funding dela 4Q 05-3Q 06 Redesign required. 1Q 04-1Q 06 Technical problems end 4Q 05-4Q 08 Program has been resco 4Q 05 Program has been resco 4Q 05 Program rebaselining is 1Q 05 Accelerated LRIP schen 3Q 06 FY 2007 FY 2008	1Q 05-4Q 08 DT/OT extended to develop seats for UH 1Q 04-3Q 05 Program has been rescoped - product in 4Q 05-4Q 08 Incremental funding delay. 4Q 05-3Q 06 Redesign required. 1Q 04-1Q 06 Technical problems encountered with of 4Q 05-4Q 08 Program has been rescoped - product 4Q 05 Program has been rescoped - product 4Q 05 Program rebaselining is required. 1Q 05 Accelerated LRIP schedule. 3Q 06 Program has been rescoped. FY 2006 FY 2007 FY 2008 FY 2009	1Q 05-4Q 08 DT/OT extended to develop seats for UH-1Y helicopte 1Q 04-3Q 05 Program has been rescoped - product redesign require 4Q 05-4Q 08 Incremental funding delay. 4Q 05-3Q 06 Redesign required. 1Q 04-1Q 06 Technical problems encountered with drogue sub system of the system of	4Q 05-3Q 06 Redesign required. 1Q 04-1Q 06 Technical problems encountered with drogue sub system. 4Q 05-4Q 08 Program has been rescoped - product redesign required. 4Q 05 Program has been rescoped - product redesign required. 4Q 05 Program rebaselining is required. 1Q 05 Accelerated LRIP schedule. 3Q 06 Program has been rescoped. FY 2006 FY 2007 FY 2008 FY 2009 FY 2010 FY 2011

									DATE:			
Exhibit R-3 Cost Analysis (page 1)		Innocent state in the state ind								Februa	ry 2006	
APPROPRIATION/BUDGET ACTIVITY	D. 4. 5	PROGRAM ELEMENT	DMENT				NUMBER AN		ODMENIT			
RDT&E, N /	BA 5	0604264N, AIRCREW SYSTEMS DEVELO	PMENI			0606, AIRC	REW SYSTE	MS DEVEL	OPMENT			
	Contract		T	E)/ 0005	E)/ 000E	E)/ 0000	F) (0000	E) (0007	E) (0007	0		Target
	Method &		Total PY s	FY 2005	FY 2005	FY 2006	FY 2006	FY 2007	FY 2007	Cost to	T	Value of
Cost Categories	Туре	Performing Activity & Location	Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Complete	Total Cost	Contract
PRODUCT DEVELOPMENT	\/A BIOLIO	VARIOUS	0.000	0.404	\/A BIOLIO	0.050) / A D O I O	0.007	\/A.D.I.O.I.I.O	4 000	0.500	
Systems Eng SOA		VARIOUS	0.363	0.181	VARIOUS		VARIOUS	0.307	VARIOUS	1.299		
Systems Eng AAEP		NAWCAD, PATUXENT RIVER MD	0.175	0.100							0.275	
Systems Eng AEPS		VARIOUS	0.240	0.586							0.826	
Systems Eng CWTS		VARIOUS	0.395	0.439	VARIOUS	0.250	VARIOUS	0.165		0.743	1.992	
Systems Eng EJECTION SEAT ENDUR		NAWCAD, PATUXENT RIVER MD			<u>-</u>			1.700	12/1/2007	0.585		
Systems Eng ESIRP		VARIOUS	3.100	1.482							4.582	
Systems Eng IDNAWH		NAWCAD, PATUXENT RIVER MD	0.211	0.228							0.439	
Systems Eng JALEPV		VARIOUS	0.122	0.025	VARIOUS						0.147	
Systems Eng JHMCS NIGHT ATTACK		VARIOUS	0.794	1.009			VARIOUS		VARIOUS	0.646		
Systems Eng LTO		NAWCAD, PATUXENT RIVER MD	0.435	0.065			VARIOUS		VARIOUS	0.750		
Systems Eng LTO		NORTHRUP GRUMMAN SYS, NY		3.244		7.275	12/31/2006	6.542	12/31/2007	3.431	20.492	20.492
Systems Eng LWATS		VARIOUS		1.000							1.000	
Systems Eng MARS		NAWCAD, PATUXENT RIVER MD	1.194	1.339		0.252	12/1/2006				2.785	
Systems Eng MARS		NADEP, CHERRY POINT NC		0.031	12/1/2005						0.031	
Systems Eng NACES		NAWCAD, PATUXENT RIVER MD	0.138			0.250	12/1/2006				0.388	
Systems Eng NVS		NAWCAD, PATUXENT RIVER MD		0.329							0.329	
Systems Eng SOASI	WX	NAWCAD, PATUXENT RIVER MD	0.177	0.266	12/1/2005						0.443	
SUBTOTAL PRODUCT DEVELOPMEN			7.343	10.324		9.884		11.195		7.455	46.202	
Remarks:												
SUPPORT												
Integrated Logistics Sup (CWTS)		VARIOUS		0.168							0.168	
Integrated Logistics Sup ESIRP		VARIOUS		0.129							0.129	
Integrated Logistics Sup IDNAWH		NSWC DET, CRANE IN		0.033							0.033	
Integrated Logistics Sup LTO		NAWCAD, PATUXENT RIVER MD		0.168							0.168	
Integrated Logistics Sup Nt Attack	WX	NSWC DET, CRANE IN		0.051	12/1/2005						0.051	
SUBTOTAL SUPPORT				0.548							0.548	
Remarks:												
TEST & EVALUATION												
SUBTOTAL TEST & EVALUATION												
Remarks:												

									DATE:			
Exhibit R-3 Cost Analysis (page 1)										Februa	ry 2006	
APPROPRIATION/BUDGET ACTIVITY		PROGRAM ELEMENT				PROJECT I	NUMBER AN	D NAME				
RDT&E, N /	BA 5	0604264N, AIRCREW SYSTEMS DEVELOPM	IENT			0606, AIRC	REW SYSTE	MS DEVEL	OPMENT.			
	Contract											Target
	Method &		Total PY s	FY 2005	FY 2005	FY 2006	FY 2006	FY 2007	FY 2007	Cost to		Value of
Cost Categories	Type	Performing Activity & Location	Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Complete	Total Cost	Contract
MANAGEMENT						1						
Mgt & Prof Suppt Srvc (NON-FFRDC)	VARIOUS	VARIOUS				0.057	VARIOUS	0.098	VARIOUS	0.432	0.587	
Program Mgmt Sup CWTS	VARIOUS	VARIOUS		0.030	VARIOUS					0.108	0.138	-
Program Mgmt Sup JHMCS	WX	VARIOUS	1.671	1.109	12/1/2005						2.780	
Program Mgmt Sup LTO	WX	NAWCAD, PATUXENT RIVER MD		0.136	12/1/2005						0.136	
Program Mgmt Sup NACES	WX	VARIOUS	0.845	0.969	12/1/2005						1.814	
Program Mgmt Sup Nt Attack	WX	NAWCAD, PATUXENT RIVER MD				0.797	12/1/2006			2.089	2.886	
TRAVEL CWTS	TO	NAVAIRHQ, PATUXENT RIVER, MD						1.141	12/1/2007	1.149	2.290	
Travel NACES	TO	NAVAIRHQ, PATUXENT RIVER, MD	0.300	0.338	12/1/2005						0.638	
SUBTOTAL MANAGEMENT			2.816	2.582		0.854		1.239	1	3.778	11.269	
Remarks:												
Total Cost			10.159	13.455		10.738		12.434		11.233	58.019	
Remarks:												

CLASSIFICATION: EXHIBIT R4, Schedule P	rofile																							DATE		uary	2006	
APPROPRIATION/BUDGET		ITY							PROC	3RAM	ELEM	ENT N	UMBE	R ANI	D NAM	IE .					PROJ	IECT N	NUMBE	R AN	D NAM			
RDT&E, N / BA-5												REW S	_				т					_	_			- EVELO		ıT
RDIGE, N 7 DA-3									00042	20411,	AIRCK	LVV 3	ISILI	IS DL	VLLO	TIVILIN					0000,	AIRC	IXL VV C	3131L	IVIS DI	VLLO	FIVILI	-
Fiscal Year		FY	2005			FY	2006			FY:	2007			FY 2	2008			FY 2	2009			FY:	2010			FY 2	2011	
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Acquisition Milestones LOX TO OBOGS CWTS MARS H-60 JALEPV LWATS JHMCS P31 NIGHT ATTACK ESIRP		•	PCA	Δ	PCA MS III BIR P		PDR II			Δ	CDR																	
Test & Evaluation Milestones LOX TO OBOGS CWTS MARS H-60 NACES II P3I JHMCS P31 NIGHT ATTACK WFOV NVG NIGHT		OT/OT	DT	/OT		OT/OT		DT/		OT AS:	ŞIST DT/OT																	
ESIRP			T/OT							TOT																		i
COMMON MARS									I D	T/OT																 		
Production Milestones MARS H-60 JALEPV CWTS COMMON MARS ESIRP	▲ L	.RIP	•	∆ L	RIP FRP [DELIV	DEL ERIES					DELIVE		LIVE	RIFS					DELIV	ERIES	5							
Deliveries																												

Exhibit R-4, Schedule Profile (Exhibit R-4, page 9 of 20)

CLASSIFICATION:

Exhibit R-4a, Schedule Detail							February 200	06
APPROPRIATION/BUDGET ACTIVITY	PROGRAM E	LEMENT			PROJECT NU	MBER AND N	AME	
RDT&BA-5	0604264N, AI	RCREW SYST	EMS DEVELO	PMENT	0606, AIRCRE	W SYSTEMS	DEVELOPMEN	ΙT
Schedule Profile	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	
LOX TO OBOGS - PDR/CDR		2Q	2Q					
LOX TO OBOGS - DT, DT ASSIST	4Q	1Q-4Q	1Q-4Q	1Q-4Q				
CWTS - UH-1Y CDR 11/PCA	2Q							
CWTS - DT/OT	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q				
CWTS - LRIP	1Q							
CWTS - DELIVERIES	4Q	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q			
MARS H60 - PCA	4Q							
MARS H-60 - DT/OT	1Q-3Q							
MARS DELIVERIES			4Q	1Q-4Q	1Q-4Q	1Q-4Q		
JALEPV - MSIII, FRP	4Q							
JALEPV - DELIVERIES		2Q						
ESIRP - CDR II	4Q							
ESIRP - DT/OT	1Q-4Q	1Q						
ESIRP - DELIVERIES	4Q	1Q-3Q						
JHMCS P3I NIGHT ATTACK - CDR	3Q							
JHMCS P3I NIGHT ATTACK - DT/OT	4Q	1Q-3Q						
COMMON MARS - DT/OT	4Q	1Q-4Q	1Q-4Q	1Q-4Q				
COMMON MARS - LRIP (MH-60S)	3Q							
COMMON MARS - DELIVERIES		4Q	1Q-4Q	1Q-4Q				
LWATS - SBIR PHASE II	4Q							
WFOV NVG NIGHT ATTACK - DT/OT	1Q-4Q	1Q						
NACES P3I - DT/OT	4Q	1Q-4Q	1Q-4Q	1Q-4Q				

Exhibit R-4a, Schedule Detail

	DATE:								
									February 2006
APPROPRIATION/BUDGET ACTIVITY PROGRAM ELEMENT NUMBER AND NAME PROJECT NUMBER AND N									AME
RDT&E, N /	BA 5	0604264N, AI	RCREW SYST	EMS DEVELO	PMENT		2877, JOINT I	HELMET MOU	NTED CUEING SYSTEM
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011		
2877 JOINT HELMET MOUNTED CUEING SYSTEM	4.993								
RDT&E Articles Qty	8								

A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

JOINT HELMET MOUNTED CUEING SYSTEM currently has the capability to cue and verify cueing of high off-axis sensors and weapons in the air-to-ground and air-to-air arena (TFLIR and AIM-9X). To take advantage and enhance the war fighting capability at night, the program is integrating night vision capabilities into the JHMCS. This will increase the pilot's situational awareness through all phases of flight. Many friendly and threat aircraft already employ helmet mounted systems. FY05 articles include eight developmental test/operational test flight worthy devices.

	EXHIBIT	R-2a, RDT8	E Project Justi	fication			DATE:	
							February 200)6
APPROPRIATION/BUDGET ACTIVITY		PROGRAM	ELEMENT NUI	MBER AND NAI	ИΕ	PROJECT NUMBER AND I	NAME	
RDT&E, N /	BA 5	0604264N, A	AIRCREW SYS	TEMS DEVELO	PMENT	2877, JOINT HELMET MOU	JNTED CUEING SYSTEM	
	FY 2005	FY 2006	FY 2007					
Accomplishments / Effort / Sub-total Cost	4.993							
RDT&E Articles Qty	8							
-	•		•	•	•			
Initiate development, procure DT assets. Conduct DT, Ir	ntegrated T&F and O	TRR Initiate	OT					
miliate development, procure D1 assets. Conduct D1, ii	itegrated rat, and o	TITAL TITULATO	01.					

	EXHIBI [*]	T R-2a, RDT&E Project Justification		DATE: February 2006
APPROPRIATION/BUDGET ACTIVITY RDT&E, N /	BA 5	PROGRAM ELEMENT NUMBER AND NAME 0604264N, AIRCREW SYSTEMS DEVELOPMENT	PROJECT NUMBER AND N 2877, JOINT HELMET MOU	AME
C. PROGRAM CHANGE SUMMARY				
Funding: Previous President's Budget: Current BES / President's Budget: Total Adjustments	FY 2005 5.048 4.993 -0.055	(
Summary of Adjustments Congressional Reductions Congressional Rescissions	0.050			
Congressional Undistributed Reductions Congressional Increases Economic Assumptions Miscellaneous Adjustments	-0.056 0.001			
Subt	otal -0.055			
Schedule: Not Applicable.				
Technical: Not Applicable.				

	EXHIB	IT R-2a, RDT&E	E Project Justifi	ication				DATE:
								February 2006
APPROPRIATION/BUDGET ACTIVITY				IBER AND NAM			PROJECT NUMBI	
RDT&E, N /	BA 5	0604264N, A	IRCREW SYST	TEMS DEVELO	PMENT		2877, JOINT HELI	MET MOUNTED CUEING SYSTEM
D. OTHER PROGRAM FUNDING SUMMARY:	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete Total Cost 0.000
Not Applicable.								
E. ACQUISITION STRATEGY: Not Applicable.								

	DATE:								
									February 2006
APPROPRIATION/BUDGET ACTIVITY PROGRAM ELEMENT NUMBER AND NAME PROJECT NUMBER AND NA								AME	
RDT&E, N /	BA 5	0604264N, AI	RCREW SYST	EMS DEVELO	PMENT		9061, INTENS	IFIER TUBE A	ADVANCED DEVELOPMENT
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011		
9061, INTENSIFIER TUBE ADVANCED DEVELOPMENT	1.645								
RDT&E Articles Qty	3								

A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

Congressional Add: The funding is needed to develop and integrate smaller and lighter night vision intensifier tubes (16mm) for narrow and wide field of view night vision systems. The advanced intensifier tubes will be the foundation for night vision devices that can be integrated with the Joint Helmet Mounted Cueing System (JHMCS) helmet mounted display system to provide a night vision cueing capability. This capability is necessary for rapid targeting of air-to-air missiles and air-to-ground weapons at night. Funding for the development of enhanced night vision imaging systems and the incorporation of the capability in current and future helmet mounted cueing systems will extend current daytime only technology for night use.

RDT&E Articles are state of the art 16mm image intensifier tubes.

		DATE:							
			•				February 2006		
APPROPRIATION/BUDGET ACTIVITY		PROGRAM ELEMENT NUMBER AND NAME PROJECT NUMBER AND N.							
RDT&E, N /	BA 5	0604264N,	AIRCREW SYS	STEMS DEVEL	OPMENT	9061, INTENSIFIER TUBE	ADVANCED DEVELOPMENT		
B. ACCOMPLISHMENTS / PLANNED PROGRAM:									
					-				
	FY 2005	FY 2006	FY 2007						
Accomplishments / Effort / Sub-total Cost	1.64	₋ 5							
RDT&E Articles Qty		3							
Night Vision Tube Development									
Refine 16 mm Intensifier Tube Technology. Continu	e development of autor	nated intensifie	r measurement	system. Delive	r prototype state-of-th	ne art 16 mm image intensifier tubes.			
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	EXHIBIT	T R-2a, RDT&E Project Justification	DATE:
APPROPRIATION/BUDGET ACTIVITY RDT&E, N /	BA 5	PROGRAM ELEMENT NUMBER AND NAME 0604264N, AIRCREW SYSTEMS DEVELOPMENT	PROJECT NUMBER AND NAME 9061, INTENSIFIER TUBE ADVANCED DEVELOPMENT
C. PROGRAM CHANGE SUMMARY			
Funding: Previous President's Budget: Current BES / President's Budget: Total Adjustments	FY 2005 1.682 1.645 -0.037	5	
Summary of Adjustments Congressional Reductions Congressional Rescissions Congressional Undistributed Reductions Congressional Increases Economic Assumptions Miscellaneous Adjustments	-0.037	,	
Subto	otal -0.037	,	
Schedule: Not Applicable			
Technical: Not Applicable			

	DATE: February 2006								
APPROPRIATION/BUDGET ACTIVITY RDT&E, N /	BA 5	PROGRAM EI 0604264N, All	AME						
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011		
9999, Congressional Adds RDT&E Articles Qty	112000	2.750		112000	1 1 2000	112010	112011		

A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

Congressional Add: The funding is needed to develop and integrate smaller and lighter night vision intensifier tubes (16mm) for narrow and wide field of view night vision systems. The advanced intensifier tubes will be the foundation for night vision devices that can be integrated with the Joint Helmet Mounted Cueing System (JHMCS) helmet mounted display system to provide a night vision cueing capability. This capability is necessary for rapid targeting of air-to-air missiles and air-to-ground weapons at night. Funding for the development of enhanced night vision imaging systems and the incorporation of the capability in current and future helmet mounted cueing systems will extend current daytime only technology for night use.

RDT&E Articles are state of the art 16mm image intensifier tubes.

RDT&E, N / BA 5 0604264N, AIRCREW SYSTEMS DEVELOPMENT 9999, Congressional Adds 3. ACCOMPLISHMENTS / PLANNED PROGRAM: 8. ACCOMPLISHMENTS / PLANNED PROGRAM: 8. ACCOMPLISHMENTS / FLANNED PROGRAM: 8. ACCOMPLISHMENTS / FLANNED PROGRAM: 8. ACCOMPLISHMENTS / PLANNED PROGRAM: 8. ACCOMPLISHMENTS / FLANNED PROGRAM: 8. ACCOMPLISHMENTS / PLANNED PROGRAM: 9999, Congressional Adds 9999, Congressional Adds		EXHI	BIT R-2a, RDT&E Project Justification	DATE:
BA 5 0604264N, AIRCREW SYSTEMS DEVELOPMENT 9999, Congressional Adds B. ACCOMPLISHMENTS / PLANNED PROGRAM: 9061C FY 2005 FY 2006 FY 2007 Accomplishments / Effort / Sub-total Cost 2.750 RDT&E Articles Qty 16 Night Vision Tube Technology Development Advance the development of an integrated night vision camera and intensifier tubes. Refine 16 mm Intensifier Tube Technology. Continue development of automated intensifier measurement system. Deliver				February 2006
B. ACCOMPLISHMENTS / PLANNED PROGRAM: 9061C FY 2005 FY 2006 FY 2007 Accomplishments / Effort / Sub-total Cost 2.750 Accomplishments / Effort / Sub-total Cost 16 Accomplishments / Effort / Sub-total Cost 2.750 Accomplishments / Effort / Sub-total Cost 16 Accomplishments / Effort / Sub-total Cost 2.750 Accomplishments / Effort / Sub-total Cost 2.750 Accomplishments / Effort / Sub-total Cost 16 Accomplishments / Effort / Sub-total Cost 2.750 Accomplishments / Effort	APPROPRIATION/BUDGET ACTIVITY		PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NAME
PO61C FY 2005 FY 2006 FY 2007 Accomplishments / Effort / Sub-total Cost 2.750 RDT&E Articles Qty 16 16 Night Vision Tube Technology Development Advance the development of an integrated night vision camera and intensifier tubes. Refine 16 mm Intensifier Tube Technology. Continue development of automated intensifier measurement system. Deliver	RDT&E, N /	BA 5	0604264N, AIRCREW SYSTEMS DEVELOPMENT	9999, Congressional Adds
P061C FY 2005 FY 2006 FY 2007 Accomplishments / Effort / Sub-total Cost 2.750 RDT&E Articles Qty 16 Night Vision Tube Technology Development Advance the development of an integrated night vision camera and intensifier tubes. Refine 16 mm Intensifier Tube Technology. Continue development of automated intensifier measurement system. Deliver				
Accomplishments / Effort / Sub-total Cost 2.750 RDT&E Articles Qty 16 Night Vision Tube Technology Development Advance the development of an integrated night vision camera and intensifier tubes. Refine 16 mm Intensifier Tube Technology. Continue development of automated intensifier measurement system. Deliver	B. ACCOMPLISHMENTS / PLANNED PROGRAM:			
Accomplishments / Effort / Sub-total Cost 2.750 RDT&E Articles Qty 16 Night Vision Tube Technology Development Advance the development of an integrated night vision camera and intensifier tubes. Refine 16 mm Intensifier Tube Technology. Continue development of automated intensifier measurement system. Deliver		T	I	
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Night Vision Tube Technology Development Advance the development of an integrated night vision camera and intensifier tubes. Refine 16 mm Intensifier Tube Technology. Continue development of automated intensifier measurement system. Deliver				
Advance the development of an integrated night vision camera and intensifier tubes. Refine 16 mm Intensifier Tube Technology. Continue development of automated intensifier measurement system. Deliver	RDT&E Articles Qty		16	
	Night Vision Tube Technology Development			

	EXHIB	T R-2a, RDT&E	Project Justification		DATE: February 2006
APPROPRIATION/BUDGET ACTIVITY RDT&E, N /	BA 5		EMENT NUMBER AND NAME RCREW SYSTEMS DEVELOPMENT	PROJECT NUMBER AND N 9999, Congressional Adds	
C. PROGRAM CHANGE SUMMARY					
Funding: Previous President's Budget: Current BES / President's Budget: Total Adjustments	FY 2005	FY 2006 2.750 2.750	FY 2007		
Summary of Adjustments Congressional Reductions Congressional Rescissions Congressional Undistributed Reductions Congressional Increases Economic Assumptions Miscellaneous Adjustments		2.750			
	ototal	2.750			
Schedule: Not Applicable					
Technical: This Congressional Add is a continuation of Project Unit changed to Night Vision Tube Technology Development		Unit was change	ed to 9061C and the title was		