	RDT&E BUDGET ITEM	DATE	DATE June 2001								
BUDGET ACTIVITY  05 - Engineering and Manufacturing Deve			ent			PROJECT <b>2053</b>					
	COST (\$ in Thousands)	FY 2000 Actual	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	Cost to Complete	Total Cost
2053	National Air Intel Center	830	4,754	1,323	1,347	1,375	1,403	1,433	1,463	Continuing	TBD
	Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0	0

FY03-FY07 budget numbers do not reflect the DoD strategic review results.

#### (U) A. Mission Description

Intelligence Equipment (IE) provides continuing development and upgrades of threat analysis capabilities of the National Air Intelligence Center (NAIC) and Air Force Information Warfare Center (AFIWC). Both organizations are tasked with providing detailed foreign technology intelligence information to a variety of DOD and non-DOD customers. In the past few years, customers' requirements have been more sophisticated, dictating more detailed and timely intelligence not only in the technology regime but also in the economic, world crisis, and political arenas. IE provides NAIC and AFIWC with the tools necessary to produce timely intelligence of foreign weapon systems and develops the tools to model and assess foreign airborne and aerospace systems. This is the only AF program developing new, or upgraded analysis, modeling and simulation tools focused on intelligence production in support of AF developmental and operational functions. IE directs the engineering and development of specialized hardware and software to conduct Information Operations (IO) with systems which process, integrate, display, and distribute intelligence data/ information for HQ ACC, the Air Intelligence Agency (AIA) -- primarily their NAIC and AFIWC subordinates.

#### (U) <u>FY 2000 (\$ in Thousands)</u>

	Р	roject 2053	Page 1 of 7 Pages	Exhibit R-2 (PE 0604750F)
	(U)	\$71	Initiate/Complete Missile System (Phase 2: MiTAS)	
	(U)	\$313	Continue Missile System (Phase 1: DIODE Objectives Model [DOM])	
ı	(U)	\$193	Continue High Speed Engine Propulsion Modeling (Phase 1: Pulsed-Detonation Engine Model)	
	(U)	\$183	Complete Radio Frequency Weapons Modeling Improvements (HEIMDAL v 2.0+)	
	(U)	\$283	Complete Advanced Infrared Countermeasures Systems Assessment Model (AIRSAM) Update	
	(U)	FY 2001 (\$ in Thousa	ands)	
	(U)	\$830	Total	
	(U)	\$70	Initiated Missile System (Phase 1: DIODE Objectives Model [DOM])	
	(U)	\$67	Initiated High Speed Propulsion Modeling (Phase 1: Pulsed-Detonation Engine Model)	
	(U)	\$226	Continued Radio Frequency Weapons Modeling Improvements (HEIMDAL v 2.0+)	
	(U)	\$151	Continued Adv Infrared Countermeasures Systems Assessment Model (AIRSAM) Update	
	(U)	\$316	Completed Comm Network Modeling Tool-Upgrade (TEL-SCOPE)	
	(0)	1 1 2000 (# III Thouse	inds)	

	RDT&E BUDGET ITEM JUSTIFICAT	TON SHEET (R-2 Exhib	oit)	date <b>Jun</b>	e 2001
	ET ACTIVITY  Engineering and Manufacturing Development	PE NUMBER AND TITLE  0604750F Intelligen	ce Equipmen	t	PROJECT <b>2053</b>
(U)	A. Mission Description Continued				
(U) (U) (U) (U)	FY 2001 (\$ in Thousands) Continued  \$335	reat Assessment (RFWA Program) (	C	•	eflected in other
	FY 2002 (\$ in Thousands)  \$39	g Tools (Phase 2: Air Turbo-Ramje g Tools (Phase 3: Turbo-Ramjet Er Objectives Model [DOM]) ) - IVIEW 2000 Upgrade/JView RMPS [Computer Requirements Mod ACE [Ballistic Reentry Vehicle Acc	t Engine Model) gine Model) lel for Payload Stu uracy Estimate])		
(U)	B. Budget Activity Justification This effort is Budget Activity 5, Engineering & Manufacturing Develor models to keep existing systems current.	opment, because the program develop	os and inserts new	technology into existing	g systems and
(U)	C. Program Change Summary (\$ in Thousands)				
(U) (U) (U)	Previous President's Budget (FY 2001 PBR) Appropriated Value Adjustments to Appropriated Value a. Congressional/General Reductions b. Small Business Innovative Research c. Omnibus or Other Above Threshold Reprogram	FY 2000 1,336 1,345 -41 -368	FY 2001 1,298 4,798	FY 2002 1,315	Total Co: TBI
l Pi	roject 2053	Page 2 of 7 Pages		Exhibit R-2	2 (PE 0604750F)

	RDT&E BUDGET ITEM JUSTIFICA	TION SH	IEET (R	-2 Exhib	oit)	DA	TE Ju	ne 2001	
-	BET ACTIVITY  Engineering and Manufacturing Development		NUMBER AND <b>04750F</b>		ce Equipr	nent			ROJECT 2 <b>053</b>
( <b>U</b> )	C. Program Change Summary (\$ in Thousands) Continued		F	FY 2000	FY 2001	FY	2002		Total Cost
	d. Below Threshold Reprogram e. Rescissions		_	-101 -5	-44				
(U) (U)	Adjustments to Budget Years Since FY 2001 PBR Current Budget Submit/FY 2002 PBR			830	4,754	1	8 ,323		TBD
(U)	Significant Program Changes:								
	FY2000 database update will reflect an additional -\$6K BTR.								
(U)	<u>P. Other Program Funding Summary (\$ in Thousands)</u>	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	Cost to		Total Cost
(U)	Not Applicable	Estimate	<u> Listimate</u>	Estimate	<u> Listimate</u>	<u> Listimate</u>	Сотро	<u></u>	
(U)	E. Acquisition Strategy All major contracts within this Program Element were awarded after f	ull and open	competition						
(U)	F. Schedule Profile		FY 2000		FY 20	001		FY 2002	
		1 2	2 3	4 1		3 4	1	2 3	4
(U)	Completed Communication Network ModelingTool Upgrade (TEL-SCOPE)			*					
(U)	Complete Advanced IRCM Systems Assessment Model (AIRSAM) Update					X			
(U)	Complete Radio Frequency Weapons Modeling Improvements (HEIMDALL-2+)					X			
(U)	Begin High Speed Propulsion / Pulsed-Detonation Engine Model (Phase 1)	*							X
(U)	Begin High Speed Propulsion / Air-Turbo Ramjet Engine Model (Phase 2)							X	
Р	roject 2053	Page 3 or	f 7 Pages				Exhibit R	-2 (PE 06	04750F)

RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)									DAT	DATE June 2001			
	BUDGET ACTIVITY  05 - Engineering and Manufacturing Development  0604750F Intelligence Equipment										PRO. <b>205</b>		
( <b>U</b> )	F. Schedule Profile Continued	1	<u>FY</u> 2	2000 3	4	1	<u>FY 2</u> 2	2 <u>001</u> 3	4	1	<u>FY 2</u>	2 <u>002</u> 3	4
(U)	Begin High Speed Propulsion / Turbo-Ramjet Engine Model (Phase 3)	1	2	3	4	1	2	3	4	1	2	3	X
(U) (U) (U)	Begin Missile System / Phase 1: DIODE Objectives Model (DOM) Begin/Complete Missile System / Phase 2: MiTAS Begin IVIEW 2000 Upgrade/JView Standard Visualization Solution (SVS)	*				*				X			X
(U)	Begin Advanced Analysis Capabilities (AAC) - Integrated Avionics Supt												X
(U) (U) (U)	Begin Radio Frequency Weapon Threat Assessment (RFWA) Begin Missile System/Phase 3: CRMPS Begin Missile System/Phase 4: BRACE Note: * denotes completed event, X denotes planned event.							X				X	X
F	Project 2053	Pag	e 4 of 7 I	Pages						Exhibit	R-2 (PI	≣ 06047	/50F)

	RDT&E PROG	RAM ELE	MENT/P	ROJECT C	OST BI	REAKDO	WN (R-3)	)	DATE	June 2001	
	SET ACTIVITY  Engineering and Man	ufacturing	Developm	nent		er and title 5 <b>0F Intelli</b> ç	gence Equ	ipment			PROJECT 2053
(U)	A. Project Cost Breakdown	(\$ in Thousand	<u>ls</u> )								
								2000	FY 200	<u>01</u>	FY 2002
(U)	Tel-Scope (Communication N		•					316			
(U)	Adv IRCM Systems Assessm		_					151	28		
(U)	Radio Frequency Weapon Mo							226	18		
(U)	High Speed Propulsion / P1:		_					67	19	3	39
(U)	High Speed Propulsion / P2:		-								239
(U)	High Speed Propulsion / P3:		_								239
(U)	Missile System / Phase 1: DI	•	s Model (DOI	M)				70	31		229
(U)	Missile System / Phase 2: Mi								7	1	
(U)	Missile System / Phase 3: CR										214
(U)	Missile System/ Phase 4: BR										214
(U)	IVIEW 2000 Upgrade / JView		ualization Sol	lution					33		115
(U)	Terrorist RF Weapon Threat								3,37	<b>'</b> 6	
(U)	Adv Analysis Capability: Into	egrated Avionic	s Support Mo	del							34
(U)	Total							830	4,75	54	1,323
(U)	<b>B. Budget Acquisition Histor</b>	<u>ry and Plannin</u>	g Informatio	n (\$ in Thousand	<u>s</u> )						
(U)	<b>Performing Organizations:</b>										
	Contractor or	Contract									
	Government	Method/Type	Award or	<b>Performing</b>	<b>Project</b>						
	Performing	or Funding	<b>Obligation</b>	<u>Activity</u>	<b>Office</b>	<b>Total Prior</b>	<b>Budget</b>	<b>Budget</b>	<b>Budget</b>	Budget to	<u>Total</u>
	Activity	<u>Vehicle</u>	<u>Date</u>	<u>EAC</u>	<u>EAC</u>	to FY 2000	FY 2000	FY 2001	FY 2002	<b>Complete</b>	<u>Program</u>
	Product Development Organiz	zations									
	Planning Research	CPFF	31 Jul 98	N/A	N/A	221	316			Continuing	TBD
	Corp(PRC)/Litton 95-C-0048										
	(Tel-Scope)										
	Sterling Software, Inc	CPFF	Sep 99	N/A	N/A	130	151	283		Continuing	TBD
	98-D-0318/06 (AIRSAM)										
	Applied Sciences Laboratory	CPFF	17 Jul 97	N/A	N/A		226	183			409
P	roject 2053			$P_{2\sigma}$	e 5 of 7 Pag	res			Exhib	it R-3 (PE 06	04750F)

	RDT&E PROG	RAM EL	EMENT/PROJ	IECT (	OST BREA	KDOWN (R-3)		DATE <b>J</b> u	ıne 2001	
	GET ACTIVITY  Engineering and Man	ufacturin	g Development		PE NUMBER AN <b>0604750F</b>	D TITLE Intelligence Equi	pment		PRO <b>20</b> :	)JECT <b>53</b>
(U)	Performing Organizations C Product Development Organiz 97-C-0036/01(RF Weapons)									
	Applied Sciences Laboratory 97-C-0036/02 (RF Weapons)	CPFF	26 May 99	N/A	N/A		3,376			3,376
	Calspan Veridian Corporation 99-DC-0050 (DOM)	CPFF	31 Jul 98	N/A	N/A	70	313	229		612
	Sterling Software, Inc 98-D-0318/02 (HSP-P-DE)	CPFF	12 Feb 99	N/A	N/A	67	193	39		299
	TBD - Phase 2: High Speed Propulsion (ATR)	TBD	TBD	N/A	N/A			239		239
	. , ,	TBD	TBD	N/A	N/A			239		239
	TBD - Missile System / Phase 2: MiTAS	CPFF		N/A	N/A		71			71
	TBD - Missile System / Phase 3: CRMPS	TBD	TBD	N/A	N/A			214		214
	TBD - Missile System/ Phase 4: BRACE	TBD	TBD	N/A	N/A			214		214
	TBD - IVIEW 2000 Upgrade/JView SVS	CPFF	TBD	N/A	N/A		335	115		450
	TBD - Adv Analysis Capability: Integrated			N/A	N/A			34		34
	Avionics Support Model TBD - Laser Weapons Simulation & Analysis (LODUR)								800	800
	Support and Management Org N/A	anizations								
P	roject 2053			Pa	ge 6 of 7 Pages			Exhibit F	R-3 (PE 0604	750F)

	RDT&E PROGRAM ELEMENT/PROJEC	DATE June 2001					
	GET ACTIVITY - Engineering and Manufacturing Development	PE NUMBER AND TITLE  0604750F Intelligence Equi	PE NUMBER AND TITLE  0604750F Intelligence Equipment				
(U)	Performing Organizations Continued: Test and Evaluation Organizations N/A						
(U)	$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	Total Prior Budget to FY 2000 FY 2000	Budget FY 2001	Budget FY 2002	Budget to Complete	<u>Total</u> <u>Program</u>	
	N/A Support and Management Property N/A Test and Evaluation Property N/A						
	Subtotals Subtotal Product Development Subtotal Support and Management Subtotal Test and Evaluation	<u>Total Prior</u> <u>Budget</u> <u>to FY 2000</u> <u>FY 2000</u> 351 830	Budget FY 2001 4,754	Budget FY 2002 1,323	Budget to Complete TBD	<u>Total</u> <u>Program</u> TBD	
	Total Project	351 830	4,754	1,323	TBD	TBD	
Р	Project 2053	Page 7 of 7 Pages		Exhib	it R-3 (PE 06	04750F)	