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DEPARTMENT OF THE
AIR FORCE

JUSTIFICATION OF ESTIMATES FOR FISCAL YEARS 1992/1993
BIENNIAL BUDGET ESTIMATES
SUBMITTED TO CONGRESS FEBRUARY 1991



Missile Procurement, Air Force

91-00935



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DEPARTMENT OF THE AIR FORCE

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MISSILE PROCUREMENT, AIR FORCE

For construction, procurement, and modification of missiles, spacecraft, rockets, and related equipment, including spare parts and accessories therefor, ground handling equipment, and training devices; expansion of public and private plants, Government-owned equipment and installation thereof in such plants, erection of structures, and acquisition of land, for the foregoing purposes, and such lands and interests therein, may be acquired and construction prosecuted thereon prior to approval of title; reserve plant and Government and contractor-owned equipment layaway; and other expenses necessary for the foregoing purposes including rents and transportation of things: [\$5,813,532,000] \$5,841,800,000 to remain available for obligation until September 30, [1993] 1994.

Further, for the foregoing purposes, \$6,776,800,000 to become available for obligation on October 1, 1992 and to remain available until September 30, 1995.

**Missile Procurement, Air Force
Program and Financing (in thousands of dollars) SUMMARY**

Identification code		57-3020-0-1-051	Budget Plan (amounts for PROCUREMENT actions programmed)			
			1990 actual	1991 est.	1992 est.	1993 est.
Program by activities:						
Direct program:						
00.0101	Ballistic missiles		798,345	546,863	240,823	44,913
00.0201	Other missiles		1,233,407	1,198,892	1,595,081	2,285,674
00.0301	Modification of Inservice missiles		86,428	109,313	196,526	128,657
00.0401	Spare and repair parts		174,426	66,620	104,279	98,218
00.0501	Other support		4,000,152	3,843,387	3,705,091	4,219,338
00.9101	Total direct program		6,292,758	5,765,075	5,841,800	6,776,800
01.0101	Releasable program		225,781	318,725	425,300	428,300
10.0001	Total		6,518,539	6,083,800	6,267,100	7,205,100
Financing:						
Offsetting collections from:						
11.0001	Federal funds(-)		-223,302	-316,125	-422,600	-425,500
13.0001	Trust funds(-)		-2,354	-2,600	-2,700	-2,800
14.0001	Non-federal sources(-)		-125			
17.0001	Recovery of prior year obligations					
21.4002	Unobligated balance available, start of year:					
21.4003	For completion of prior year budget plans					
21.4009	Available to finance new budget plans					
22.4001	Reprogramming from/to prior year budget plans		-104,077	-216,581		
22.4001	Unobligated balance transferred to other accounts		-170,287	24,200		
24.4002	Unobligated balance available, end of year:		90,027	-24,200		
24.4003	For completion of prior year budget plans		216,581			
25.0001	Available to finance subsequent year budget plans		46,269			
39.0001	Unobligated balance lapsing					
	Budget authority		6,371,271	5,548,494	5,841,800	6,776,800
Budget authority:						
40.0001	Appropriation		6,916,863	5,813,532	5,841,800	6,776,800
40.3501	Appropriation rescinded (-)		-70,142			
40.3601	Appropriation rescinded (unob bal)		-59,900	-216,581		
40.7501	Reduction pursuant to P.L. 101-165 (-)		-153,108			
40.7502	Reduction pursuant to P.L. 101-511 (-)			-2,364		
41.0001	Transferred to other accounts (-)		-262,442	-65,733		
42.0001	Transferred from other accounts			19,640		
43.0001	Appropriation (adjusted)		6,371,271	5,548,494	5,841,800	6,776,800
Relation of obligations to outlays:						
71.0001	Obligations incurred, net					
72.4001	Obligated balance, start of year					
74.4001	Obligated balance, end of year					
77.0001	Adjustments in expired accounts (net)					
78.0001	Adjustments in unexpired accounts					

Missile Procurement, Air Force
Program and Financing (in thousands of dollars) SUMMARY

Obligations

Identification code	57-3020-0-1-051	1990 actual	1991 est.	1992 est.	1993 est.
Program by activities:					
Direct program:					
00.0101	Ballistic missiles	802,290	718,032	349,011	145,983
00.0201	Other missiles	1,465,914	1,689,610	1,540,183	2,120,716
00.0301	Modification of inservice missiles	76,311	137,424	162,427	129,754
00.0401	Spares and repair parts	168,540	70,032	108,616	94,448
00.0501	Other support	4,259,869	3,541,976	3,893,294	4,053,302
00.9101	Total direct program	6,772,924	6,157,073	5,853,531	6,544,201
01.0101	Reimbursable program	233,472	324,962	428,300	428,300
10.0001	Total	7,006,396	6,482,035	6,278,831	6,972,501
Financing:					
Offsetting collections from:					
11.0001	Federal funds(-)	-220,570	-316,128	-422,600	-425,500
13.0001	Trust funds(-)	-2,717	-2,600	-2,700	-2,800
14.0001	Non-Federal sources(-)	-125			
17.0001	Recovery of prior year obligations	-47,551			
21.4002	Unobligated balance available, start of year:				
21.4003	For completion of prior year budget plans	-2,421,402	-1,808,441	-1,434,406	-1,422,875
21.4009	Available to finance new budget plans	-104,077	-216,581		
22.4001	Reprogramming from/to prior year budget plans	90,027	-24,200		
24.4002	Unobligated balance transferred to other accounts	1,808,441	1,434,406	1,422,675	1,655,274
24.4003	Unobligated balance available, end of year:	216,581			
25.0001	Available to finance subsequent year budget plans	46,269			
39.0001	Unobligated balance lapsing				
	Budget authority	6,371,271	5,548,494	5,841,800	6,776,800
Budget authority:					
40.0001	Appropriation	6,916,863	5,813,532	5,841,800	6,776,800
40.3501	Appropriation rescinded (-)	-70,142			
40.3601	Appropriation rescinded (unob bal)	-59,900	-216,581		
40.7501	Reduction pursuant to P.L. 101-165 (-)	-153,108			
40.7502	Reduction pursuant to P.L. 101-511 (-)		-2,364		
41.0001	Transferred to other accounts (-)	-262,442	-65,733		
42.0001	Transferred from other accounts		19,640		
43.0001	Appropriation (adjusted)	6,371,271	5,548,494	5,841,800	6,776,800
Relation of obligations to outlays:					
71.0001	Obligations incurred, net	6,782,984	6,163,310	5,853,531	6,544,201
72.4001	Obligated balance, start of year	11,292,592	10,079,377	8,982,481	8,628,990
74.4001	Obligated balance, end of year	-10,079,377	-8,982,481	-8,628,990	-9,290,158
77.0001	Adjustments in expired accounts (net)	2,329			
78.0001	Adjustments in unexpired accounts	-47,551			

Missile Procurement, Air Force
Program and Financing (in Thousands of dollars) SUMMARY

Identification code		57-3020-0-1-051				
			1990 actual	1991 est.	1992 est.	1993 est.
90.0001	Outlays		7,950,976	7,280,206	6,187,022	5,863,033

Missile Procurement, Air Force
Object Classification (in Thousands of dollars) SUMMARY

Identification code	57-3020-0-1-051	1990 actual	1991 est.	1992 est.	1993 est.
Direct obligations:					
131.001 Equipment		6,772,924	6,157,073	5,853,531	6,544,201
199.001 Total Direct obligations		6,772,924	6,157,073	5,853,531	6,544,201
Reimbursable obligations:					
231.001 Equipment		233,472	324,962	425,300	428,300
299.001 Total Reimbursable obligations		233,472	324,962	425,300	428,300
999.901 Total obligations		7,006,396	6,482,035	6,278,831	6,972,501

Missile Procurement, Air Force
(Rescission Proposal)
Program and Financing (in Thousands of dollars) FISCAL YEAR 1991

Identification code	57-3020-S-1-061	Budget Plan (amounts for PROCUREMENT actions programmed)		
		1990 actual	1991 est.	1992 est.
Program by activities:				
10.0001	Total			
Financing:				
21.4002	Unobligated balance available, start of year:			
	For completion of prior year budget plans			
24.4002	Unobligated balance available, end of year:			
	For completion of prior year budget plans			
40.3001	Budget authority (Appropriation rescission p			
			-33,300	

ACTIVITY: 1. Ballistic Missiles

	(In Thousands of Dollars)
FY 1993 Estimate	\$ 44,913
FY 1992 Estimate	240,823
FY 1991 Estimate	546,863
FY 1990 Actual	668,076

SECTION I - PURPOSE AND SCOPE

This activity provides for complete operational intercontinental ballistic missiles, including the airframe structure and installed power units, communications guidance and control equipment, re-entry vehicle (excluding nuclear payloads), instruments and auxiliary equipment installed in the missiles, and penetration aids. It also provides for peculiar support equipment in direct support of operational ballistic missiles including ground guidance and control systems, equipment to maintain the operational status of the system, specialized ground handling equipment, and system trainers. The ground equipment is used to transport, assemble and disassemble, maintain, checkout, launch, and guide ballistic missiles. Specialized training equipment includes system trainers for proficiency training of maintenance and operator crews. This activity also provides for the modernization of the ballistic missile launch and launch control facilities and the integration of new equipment into the launch control center. It includes hardware, training equipment, data and site activation effort required to modernize ballistic missile facilities. Also included is replacement equipment for ballistic missile weapon systems. Replacement equipment requirements provide for peculiar support equipment for out-of-production systems, equipment common to several systems, and equipment required by specialized repair activities.

SECTION II - JUSTIFICATION OF FUNDS REQUESTED

PEACEKEEPER

(In Thousands of Dollars)			
<u>FY 1992</u>		<u>FY 1993</u>	
<u>QTY</u>	<u>AMOUNT</u>	<u>QTY</u>	<u>AMOUNT</u>
0	195,178	0	0

The Peacekeeper is a four-stage ICBM having multiple independently targetable warheads with much greater accuracy than previous ballistic missiles. The first 50 Peacekeeper missiles are deployed in Minuteman silos. Peacekeeper subsystems provide the following improvements over existing Minuteman missiles: an advanced guidance set for improved accuracy; an advanced solid propellant; lightweight motor cases; and advanced rocket motor nozzles. FY 1992 funds are requested to complete procurement of missile support equipment, provide for contract closeout and completion of residual tasks.

REPLACEMENT EQUIPMENT - STRATEGIC (BALLISTIC)

(In Thousands of Dollars)			
<u>FY 1992</u>		<u>FY 1993</u>	
<u>QTY</u>	<u>AMOUNT</u>	<u>QTY</u>	<u>AMOUNT</u>
-	45,645	-	44,913

Replacement equipment includes items to replace peculiar and common support equipment worn out or damaged beyond economical repair and common items required for new ballistic missile systems entering the inventory. It provides for the replacement of organizational and base level missile support equipment.

ACTIVITY: 2. Other Missiles

(In Thousands of Dollars)

FY 1993 Estimate	\$2,248,474
FY 1992 Estimate	1,595,081
FY 1991 Estimate	1,165,592 (1,198,892)*
FY 1990 Actual	1,366,876

SECTION 1 - PURPOSE AND SCOPE

This activity provides funds for procurement of strategic air-to-ground cruise missiles, tactical ground-to-ground cruise missiles, tactical air-to-air, air-to-ground and ground-to-air missiles, target drones, and missile replacement equipment. Weapon system cost includes flyaway costs (airframe, propulsion equipment, electronics and armament), peculiar support equipment (PSE), system peculiar training equipment and publications, and technical data.

* The Program and Financing (P&F) Schedule reflects a proposed rescission of \$33.3 Million from the Maverick line item. This proposal has been withdrawn and FY 1991 BA-2 total has been annotated above to reflect this change.

SECTION 11 - JUSTIFICATION OF FUNDS REQUESTED

The FY 1992/1993 budget request includes funds for the procurement of the Advanced Cruise Missile. Have Flag, AGM-130 Powered GBU-15, Imaging Infrared (IIR) Maverick, HARM, target drones, Short Range Attack Missile II (SRAM II), Advanced Medium Range Air-to-Air Missile (AMRAAM), HAVE NAP and Missile Replacement Equipment.

Strategic Missiles

ADVANCED CRUISE MISSILE

(In Thousands of Dollars)			
		FY 1992	FY 1993
Qty	Amount	Qty	Amount
120	501,788	102	450,123

The Advanced Cruise Missile (ACM) is a low-observable air-launched cruise missile. ACM incorporates substantial improvements in survivability, range, accuracy, and targeting flexibility over current inventory assets. It is being tested for use on both the B-52H and the B-1B aircraft.

Have Flag - Information concerning this program is included in classified budget documentation material.

HAVE NAP

(In Thousands of Dollars)			
		FY 1992	FY 1993
Qty	Amount	Qty	Amount
32	34,662	0	0

HAVE NAP is an air-to-ground, medium range, precision guided missile currently operational in the Israeli Air Force. The weapon system is planned to be employed on Strategic Air Command (SAC) B-52's as a standoff conventional weapon against designated high value point and defense suppression targets.

SRAM II

(In Thousands of Dollars)			
FY 1992		FY 1993	
QTY	AMOUNT	QTY	AMOUNT
-	10,969	25	87,370

The SRAM II is an improved nuclear air-to-surface missile developed to replace the SRAM A. The system will be capable of penetrating advanced defensive threats to strike hard and relocatable targets from standoff ranges. Primary carrier aircraft will be the B-1B and B-2s. The 1992 request supports nonrecurring costs at the prime contractor's plant. The 1993 request begins low rate production of twenty-five missiles.

Tactical Missiles

AGM -130 POWERED GBU-15

(In Thousands of Dollars)			
FY 1992		FY 1993	
QTY	AMOUNT	QTY	AMOUNT
120	70,017	149	100,735

The AGM-130 program is a flexible stand-off weapon. The FY 1992 and FY 1993 requests provide funding to continue low rate production as well as funding for special tooling and test equipment required for full rate production.

AGM-65D/G MAVERICK

(In Thousands of Dollars)

FY 1992		FY 1993	
QTY	AMOUNT	QTY	AMOUNT
-	5,490	-	-

The AGM-65D and G missiles are rocket-propelled, air-to-surface, precision-guided tactical missiles with a "stand-off" launch and leave capability. The missiles are guided by tracking signals developed from the naturally occurring thermal energy of the target. The AGM-65D has a (125 lb) conical shaped charge warhead, which is detonated by a contact fuze mechanism. The AGM-65G is essentially the same as the "D" version only it employs a larger (300 lb) high explosive warhead. Both the AGM-65D and G missiles incorporate imaging infrared (IIR) guidance compatible with all TV MAVERICK capable aircraft and target acquisition systems that are being planned for tactical aircraft.

The FY 1992 request covers contract closeout as well as residual tasks.

AGM-88A HARM

(In Thousands of Dollars)

FY 1992		FY 1993	
QTY	AMOUNT	QTY	AMOUNT
465	113,151	901	225,741

Developed jointly by the Air Force and Navy, the Advanced High-Speed Anti-Radiation Missile (HARM) is an air-to-surface missile that is guided to enemy radar sites by homing in on emitting signals. HARM characteristics include software flexibility, inflight retargeting, high speed, large launch envelope, wide band coverage in a single head, high sensitivity and compatibility with both Air Force and Navy tactical aircraft. The increased sophistication, concentration and lethality of enemy ground based, radar guided, missile and anti-aircraft artillery systems threaten the ability of tactical aviation to accomplish its mission and survive. HARM provides a lethal counter to this threat. In 1992 the Air Force will procure 465 missiles, with 901 missiles to be procured in 1993.

Advanced Medium Range Air-to-Air Missile (AMRAAM)

(In Thousands of Dollars)

FY 1992		FY 1993	
QTY	AMOUNT	QTY	AMOUNT
1,000	768,432	1,310	867,031

Developed jointly by the Air Force and Navy, the AMRAAM is an air-to-air missile with significant improvements in operational utility and combat effectiveness over the AIM-7F/M Sparrow missile. It is a radar guided, all-weather, all-environment, beyond-visual-range, air-to-air missile compatible with the F-14, F-15, F-16 and F-18. It will have a performance envelope significantly improved over the AIM-7F/M, increased missile velocity, a "launch and maneuver" employment capability, and the capability for multiple target attack during a single intercept. The 1992 request procures 1,000 AMRAAMs, with 1,310 to be procured in 1993.

Target Drones

(In Thousands of Dollars)

FY 1992		FY 1993	
QTY	AMOUNT	QTY	AMOUNT
60	28,833	124	64,365

Target drones are remotely piloted vehicles used to simulate threat aircraft during test and evaluation of air-to-air missiles. Both full-scale and subscale targets with associated augmentation, scoring and countermeasures devices are required. Funding in 1992 procures 60 subscale BQM-34A drones. Funding in 1993 procures 44 QF-106 full-scale drones and 80 subscale BQM-34A drones.

Replacement Equipment

(In Thousands of Dollars)			
FY 1992		FY 1993	
<u>QTY</u>	<u>AMOUNT</u>	<u>QTY</u>	<u>AMOUNT</u>
-	29,145	-	29,570

Requirements for replacement equipment provide for peculiar support equipment for weapon systems that are no longer in production, equipment common to several systems, and equipment required by specialized report activities. In FY 1992 and FY 1993 the funding is required to procure replacement equipment for the AGM-84 HARPOON, AIM-7 SPARROW, AIM-9 SIDEWINDER, AGM 65-A MAVERICK, AGM-69 SRAM, and ALOM, and RAPIER.

ACTIVITY: 3. Modification of In-service Missiles

(In Thousands of Dollars)	
FY 1993 Estimate	\$128,657
FY 1992 Estimate	196,526
FY 1991 Estimate	109,313
FY 1990 Actual	86,428

SECTION I - PURPOSE AND SCOPE

This activity provides for modification of missile systems and drones, direct ground support equipment, missile training equipment, and components for this equipment. These costs include modification kits, revised handbooks, and engineering effort. These programs are designed to improve reliability, enhance performance, and increase maintainability by incorporating approved modifications resulting from technical advances, service use, and continuing test programs.

SECTION II - JUSTIFICATION OF FUNDS REQUESTED

The FY 1992 and FY 1993 missile modification program consists of Class IV modifications necessary for safety improvements, extension of service life or correction of material deficiencies, and Class V modifications that incorporate changes to enhance the operational capability of the fielded systems. Several Class III update modifications are also programmed to bring fielded missiles into line with production line configuration. Advances in technology and weapon system service life extensions necessitate the modification of in-service missile systems to enable strategic, tactical, and support forces to maintain superiority over hostile forces. Funding for installation is included with each modification.

HAVE NAP

(In Thousands of Dollars)	
<u>FY 1992</u>	<u>FY 1993</u>
\$1,706	\$1,221

The FY 1992/93 request provides for modification of the HAVE NAP missiles not used in Initial Operational Test and Evaluation to comply with United States operational and safety standards.

LGM-30 Minuteman III Modification

(In Thousands of Dollars)	
<u>FY 1992</u>	<u>FY 1993</u>
\$144,715	\$52,430

The FY 1992/93 requests continue the Rapid Execution and Combat Targeting (REACT) mod to Minuteman III to replace equipment in all operational launch control centers.

AGM-65D Maverick

(In Thousands of Dollars)	
<u>FY 1992</u>	<u>FY 1993</u>
\$4,402	\$1,628

The FY 1992 request completes a Class V modification for 825 AGM-65D missiles and depot support equipment for compatibility with the new digital autopilot and pneumatic actuation system. This modification updates operational capability for current pilot training. The FY 1993 request provides for a Class III modification for correction of deficiencies found during development and initial use.

AQM

(In Thousands of Dollars)	
<u>FY 1992</u>	<u>FY 1993</u>
\$12,040	\$11,191

Information concerning this program is included in classified budget documentation.

AIM-9 SIDEWINDER

(In Thousands of Dollars)	
<u>FY 1992</u>	<u>FY 1993</u>
\$872	\$31,364

The FY1992/93 request provides for modification of existing AIM-9M all-up-round missiles with an upgraded guidance and control system. The upgrade provides a superior air-to-air missile by increasing the counter-countermeasures capability and head-on acquisition range.

AGM-88A HARM Modification

(In Thousands of Dollars)	
<u>FY 1992</u>	<u>FY 1993</u>
\$2,147	\$2,229

The FY 1992/1993 request continues modification program to correct deficiencies revealed during operational testing and initial use. These corrections are normally incorporated into the production line at the earliest time, however those missiles that could not be corrected while in production must be corrected through the modification process.

AGM-86A Air Launched Cruise Missile Modification

(In Thousands of Dollars)	
FY 1992	FY 1993
\$27,950	\$25,222

The FY1992 and FY1993 requests provide for a modification to convert the ALCM munitions lift trailer used in loading ALCMs on B-52s to a trailer that will be common to both the B-52, B-1, and B-2. This modification will make configuration management easier and will reduce operation and maintenance costs. The program incorporates two safety modifications.

Peacekeeper Modifications

(In Thousands of Dollars)	
FY 1992	FY 1993
\$2,370	\$3,034

The FY 1992 and FY1993 programs provide funding for miscellaneous Class IV reliability and maintainability modifications.

Other (Modifications Under \$2.0 Million)

(In Thousands of Dollars)	
FY 1992	FY 1993
\$324	\$338

The FY 1992 and FY1993 programs provide \$.3 million each year for miscellaneous modifications on the AIM-7F SPARROW, to improve reliability, maintainability and correct material deficiencies.

ACTIVITY: 4. Spares and Repair Parts

	(In Thousands of Dollars)
FY 1993 Estimate	\$ 98,218
FY 1992 Estimate	104,279
FY 1991 Estimate	66,620
FY 1990 Actual	174,426

SECTION 1 - PURPOSE AND SCOPE

This activity provides for procurement of initial spares and repair parts for ballistic missiles, other missiles, and target drones. Included are related provisioning documentation and spares for missile modification programs, peculiar support equipment and training equipment.

SECTION 11 - JUSTIFICATION OF FUNDS REQUESTED

The FY 1992/93 funds are required for spares for weapon systems in production. Initial spares funding requirements are determined by applying standard factors which are based on historical experience. The factors are applied in accordance with type of weapon system, category of support (e.g. air vehicle, support equipment), number of weapon systems in production, production leadtimes, and recurring flyaway costs. Initial spares requirements are validated in the weapon system provisioning process for a specified support period. Replenishment spares include components and repair parts required for the continued support of missiles, drones and related support equipment maintained in the operational inventory. Beginning in FY 1991 the Air Force instituted a new concept of management which transfers funding responsibility for replenishment spares from this central procurement account to the Air Force Stock Fund. Exempt from the Stock Fund are items that are managed by base level classified systems.

TOTAL BUDGET ACTIVITY 4:

SPARES AND REPAIR PARTS

	(In Thousands of Dollars)	
	<u>FY 1992</u>	<u>FY 1993</u>
<u>INITIAL SPARES</u>		
ACM	15,907	15,366
SRAM II	-	1,229
AIM-120 Advanced Medium		
Range Air-to-Air Missile (ANRAAM)	13,987	5,977
AGM-88A High Speed		
Anti Radiation Missile (HARM)	3,435	6,270
Target Drones	503	5,380
HAVE NAP	2,610	-
AGM-130 powered GBU-15	1,681	1,390
Classified Programs	-	<u>10,279</u>
Subtotal	38,123	45,891

	<u>1992</u>	<u>1993</u>
<u>MODIFICATION INITIAL SPARES</u>		
LGM-30 F/G MINUTEMAN III/III	10,680	6,216
OTHER PROGRAMS	2,433	3,671
Subtotal	<u>13,113</u>	<u>9,887</u>
TOTAL INITIAL SPARES	51,236	55,778
<u>REPLENISHMENT SPARES</u>		
AIM-7 Sparrow	6,685	10,188
AIM-9 Sidewinder	7,808	4,866
AIM-120 AMRAAM	11,284	8,487
AGM-65A Maverick	2,765	2,393
AGM-69A SRAM	1,017	205
AGM-86 ALOM	5,372	5,374
AGM-88A HARM	2,917	3,064
ACM	9,445	2,853
LGM-30 Minuteman	339	358
LGM-118A Peacekeeper	159	163
HAVE NAP	1,509	1,536
AGM-45 S-RIKE	2,926	2,512
Classified Programs	<u>817</u>	<u>441</u>
Total Replenishment Spares	53,043	42,440
TOTAL BUDGET ACTIVITY 4:		
SPARES AND REPAIR PARTS	104,279	98,218

ACTIVITY: 5. Other Support

	(In Thousands of Dollars)
FY 1993 Estimate	\$4,256,538
FY 1992 Estimate	3,705,091
FY 1991 Estimate	3,843,387
FY 1990 Actual	3,996,452

SECTION I - PURPOSE AND SCOPE

This activity provides for space programs and special programs. Space programs provide launch vehicles, satellites, peculiar ground support equipment, and miscellaneous launch support requirements other than those chargeable to the Operations and Maintenance appropriation. Special programs are of a sensitive nature and require special access.

SECTION 11 - JUSTIFICATION OF FUNDS REQUESTED

The FY 1992 request of \$3,705,091 thousand includes \$1,159,450 for operational space programs and \$2,545,641 thousand for special programs. The FY1993 request of \$4,256,538 thousand includes \$1,470,870 for operational space programs and \$2,785,660 thousand for special programs.

Communications Security (COMSEC)

(In Thousands of Dollars)			
FY 1992		FY 1993	
QTY	AMOUNT	QTY	AMOUNT
-	7,873	-	8,374

This program provides communications security equipment for all critical spaceborne communications systems. Funds requested in this line procure COMSEC products for use in operational space programs. This program is an integral part of the national COMSEC program administered by the National Security Agency. FY 1992 and FY1993 funds provide for the procurement of peculiar anti-jam, data and command authentication encryption/decryption, authentication anti-jam, and weapon system security communication equipment for space and satellite programs.

Navstar Global Positioning System (GPS) (MYP)

(In Thousands of Dollars)			
FY 1992		FY 1993	
QTY	AMOUNT	QTY	AMOUNT
4	216,086	6	261,703

The operational Navstar GPS system will consist of 21 satellites in six orbital planes and 3 on orbit spare satellites, a ground control station and thousands of user equipment for all services. Users (military aircraft, ships, ground vehicles, and ground personnel) will be able to precisely determine position (to 16 meters spherical probable error accuracy worldwide) and velocity (.1 meters

per second), in three dimensions and unimpaired by weather anywhere in the world. GPS's positional accuracy will significantly improve the effectiveness of reconnaissance, weapons delivery, mine countermeasures and rapid deployment for all services. The FY 1992/1993 funding continues the multiyear procurement of 20 Block IIR replenishment satellites. In addition, the FY 1993 request provides for an annual option for two additional replenishment satellites.

Space Shuttle Operations

(In Thousands of Dollars)			
FY 1992		FY 1993	
QTY	AMOUNT	QTY	AMOUNT
-	61,523	2	130,325

The Space Shuttle Operations program provides funds to procure upper stages to support Air Force operational space programs. The FY1992 request provides funds for Inertial Upper Stage (IUS) technical support as well as advance procurement for two IUS vehicles. The FY1993 request procures two IUS vehicles.

Defense Meteorological Satellite Program (DMSP) (MVP)

(In Thousands of Dollars)			
FY 1992		FY 1993	
QTY	AMOUNT	QTY	AMOUNT
2	108,052	-	7,302

DMSP is an advanced weather satellite system that provides timely, worldwide, high quality visible and infrared cloud imagery and other specialized meteorological, oceanographic and solar geophysical data to support DOD strategic missions. Worldwide data are provided to the Air Force Global Weather Central (Offutt AFB, Nebraska) and the Navy's Fleet Numerical Oceanography Center (Monterey, California). Local area cloud imagery data are transmitted for immediate use directly from the satellites to fixed and

mobile Air Force and Navy tactical receiving terminals at key worldwide operating locations and onboard aircraft carriers at sea. The FY 1992 request procures satellites S19-S20 as part of the five spacecraft multiyear initiated in FY 1989. The FY 1993 request provides for general engineering support.

Defense Support Program (DSP) (MYP)

(In Thousands of Dollars)			
<u>FY 1992</u>		<u>FY 1993</u>	
<u>QTY</u>	<u>AMOUNT</u>	<u>QTY</u>	<u>AMOUNT</u>
-	192,552	1	464,076

DSP satellites contain sensors which provide near real-time data to the National Command Authority and other designated users. Funds FY 1992 provide for launch support as well as advance procurement for Satellite 23. The FY 1993 request provides full-funding for Satellite 23 as well as advance procurement for Satellite 24.

Defense Satellite Communications System (DSCS) (MYP)

(In Thousands of Dollars)			
<u>FY 1992</u>		<u>FY 1993</u>	
<u>QTY</u>	<u>AMOUNT</u>	<u>QTY</u>	<u>AMOUNT</u>
-	55,724	-	13,816

DSCS provides Super High Frequency (SHF) satellite communications for secure voice and high data rate transmissions. It satisfies unique and vital national security communications requirements for worldwide military command and control, crises management and relay of intelligence, early warning data, treaty monitoring and surveillance information and diplomatic traffic. The DSCS program consists of a space segment, which is an Air Force responsibility, a multi-user terminal segment for ground, airborne, and naval elements, and an operational control segment. The authorized DSCS space segment consists of five operational and two on-orbit spare satellites positioned in geosynchronous orbits to provide global (less

polar) coverage. Existing DSCS II satellites will be replenished with DSCS III satellites. DSCS III provides increased capacity, flexibility, and counter-measure capability. DSCS III satellites will include an Air Force Satellite Communications System single channel transponder for Emergency Action Message dissemination. Funding in FY 1992 procures two Integrated Apogee Boost Subsystem assemblies (IABS) to enable launch of two DSCS III satellites on the Atlas II launch vehicles. FY 1992 also finances general engineering support, satellite storage, and modification to DSCS satellites to allow use of the Atlas II. FY 1993 funding finances satellite storage and general engineering support.

Space Boosters (MYP)

(In Thousands of Dollars)			
<u>FY 1992</u>		<u>FY 1993</u>	
<u>QTY</u>	<u>AMOUNT</u>	<u>QTY</u>	<u>AMOUNT</u>
-	295,614	-	345,687

The Space Boosters program provides access to space for critical DOD payloads. FY 1992 funds avionics ground equipment (AGE) at Cape Canaveral Air Force Station (CCAFS), propellants and launch support services. The FY 1993 request provides funds to continue procurement of AGE for CCAFS, propellants and launch services as well as advance procurement for one TITAN IV launch vehicle in FY 1994.

Medium Launch Vehicle (MLV)

(In Thousands of Dollars)			
<u>FY 1992</u>		<u>FY 1993</u>	
<u>QTY</u>	<u>AMOUNT</u>	<u>QTY</u>	<u>AMOUNT</u>
4	222,026	4	239,595

This program provides for competitive procurement of medium launch vehicles (MLVs). The Delta II will be used to launch medium weight satellites, such as the NAVSTAR GPS into orbit. The FY 1992 request finances three Delta II launch vehicles to launch NAVSTAR GPS satellites and one Atlas II launch vehicles to launch DSCS satellites. Two Delta IIs and two Atlas IIs are procured in FY 1993.

Nuclear Detonation Detection System (NDS)/(IONDS)

(In Thousands of Dollars)

FY 1992		FY 1993	
QTY	AMOUNT	QTY	AMOUNT
4	52,640	6	51,835

NDS provides the capability to detect, locate, and report nuclear detonations on a global basis near real-time. NDS sensor packages are employed on NAVSTAR Global Positioning System (GPS) satellites. FY 1992/1993 funding continues the multiyear procurement of NDS sensor suites for the next twenty GPS satellites. In addition, the FY 1993 funding request provides for an annual option for two sensor suites for two GPS satellites.

Forest Green

(In Thousands of Dollars)

FY 1992		FY 1993	
QTY	AMOUNT	QTY	AMOUNT
-	582	-	270

Information concerning this program is included in classified budget documentation material.

Special Programs

(In Thousands of Dollars)

FY 1992		FY 1993	
QTY	AMOUNT	QTY	AMOUNT
-	2,419,740	-	2,527,500

Information concerning this program is included in classified budget documentation material.

Special Update Programs

(In Thousands of Dollars)			
<u>FY 1992</u>		<u>FY 1993</u>	
<u>QTY</u>	<u>AMOUNT</u>	<u>QTY</u>	<u>AMOUNT</u>
-	72,679	-	206,055

Information concerning this program is included in classified budget documentation material.

**COMPARISON OF FY 1991 PROGRAM REQUIREMENTS AS REFLECTED
IN FY 1991 AMENDED BUDGET WITH FY 1991 PROGRAM REQUIREMENTS AS
SHOWN IN FY 1992 BUDGET**

SUMMARY OF PROGRAM REQUIREMENTS

	(In Thousands of Dollars)			
	Program Requirements	Program Requirements		Increase (+) or Decrease (-)
	Per 1991 Amended Budget	Per 1992/93 Budget		
<u>BUDGET ACTIVITY</u>				
1. Ballistic Missiles	\$1,885,007	\$ 546,863		\$ 1,338,144
2. Other Missiles	2,125,468	1,198,892 *		-926,576
3. Modification of In-Service Missiles	111,273	109,313		-1,960
4. Spares and Repair Parts	271,355	66,620		-204,735
5. Other Support	4,612,597	3,843,387		-769,210
6. Reimbursable Program	<u>251,800</u>	<u>318,725</u>		<u>+66,925</u>
Total Fiscal Year Program	\$9,257,500	\$6,083,800		\$-3,173,700
* Includes \$33.3M for Maverick				

EXPLANATION OF CHANGES BY BUDGET ACTIVITY

1. Ballistic Missiles (-\$1,338,144). Congress made the following adjustments (totalling \$-1,216,619 thousand):
 PEACEKEEPER (-\$1,072,119 thousand), PEACEKEEPER Advanced Procurement (-\$133,900 thousand), Missile Replacement
 Equipment-Ballistic (-\$10,600 thousand). Also reflects reduction of \$114,787 thousand for Congressional Inflation
 reduction, (PEACEKEEPER -\$113,762 thousand, Missile Replacement Equipment - Ballistic -\$1,025 thousand).
 Additionally, PEACEKEEPER is reduced \$486 thousand pursuant to Section 8070 of the FY 1991 DOD Appropriation Act, \$800

- thousand pursuant to Section 8050 of the FY 1991 DOD Appropriation Act, and \$24,952 thousand for the Military Personnel Reprogramming. Also reflects an increase of \$19,500 thousand for Treaty Compliance Reprogramming to the PEACEKEEPER program.
2. Other Missiles (-\$926,576). Congress made the following adjustments (totalling -\$890,273 thousand): Advanced Cruise Missile (ACM) Advanced Procurement -\$19,100 thousand), Classified Program (-\$327,538 thousand), Tacit Rainbow (-\$227,441 thousand), SRAM II (-\$4,720 thousand), SRAM II Advanced Procurement (-\$6,390 thousand), Maverick (-\$53,000 thousand), AMRAAM (-\$358,084 thousand). Also reflects reductions of \$16,600 thousand for Congressional inflation reduction (Replacement Equipment - Other \$1,500 thousand, Classified Program \$15,100 thousand); and -\$19,703 thousand for Military Personnel Reprogramming (Maverick -\$19,703 thousand).
3. Modification of In-Service Missiles (-\$1,960). Reflects a reduction of \$2,100 thousand for Congressional Inflation reduction and an increase of \$140 thousand for Treaty Compliance Reprogramming.
4. Spares and Repair Parts (-\$204,735). Congress reduced the FY 1991 Spares and Repair Parts by \$202,222 thousand. Also reflects a reduction of \$2,513 thousand for Congressional Inflation reduction.
5. Other Support (-\$769,210). Congress made the following adjustments (totalling -\$747,054 thousand): Space Shuttle Operations Advance Procurement (+\$8,000 thousand), Space Boosters (-\$1,600 thousand), Special Programs (-\$557,100 thousand), Special Update Programs (-\$196,354 thousand). Also reflects reductions of \$1,078 thousand for Congressional Inflation reduction (Special Update Program -\$1,078 thousand) and \$21,078 thousand for Military Personnel Reprogramming (NAVSTAR GPS -\$21,078 thousand).
6. Reimbursable Program. Increase is due to revised estimates of customer orders.

COMPARISON OF FY 1991 FINANCING AS REFLECTED
IN FY 1991 AMENDED BUDGET WITH FY 1991 FINANCING AS
SHOWN IN FY 1992 BUDGET

	(In Thousands of Dollars)		
	Financing Per FY 1991 Budget	Financing Per FY 1992/93 Budget	Increase (+) or Decrease (-)
Program Requirements	\$9,257,500	\$6,083,800	\$-3,173,700
Program Requirements (Service Account)	(9,005,700)	(5,765,075)	(-3,240,625)
Program Requirements (Reimbursable)	(251,800)	(318,725)	(+66,925)
Less:			
Anticipated Reimbursements	251,800	318,725	66,925
Transfer from other Accounts	-	19,640	-19,640
Add:			
Reduction due to P.L. 101-511	-	2,364	2,364
Transfer to Other Accounts	-	65,733	65,733
Appropriation	\$9,005,700	\$5,813,532	\$-3,192,168

EXPLANATION OF CHANGES IN FINANCING

- The FY 1991 program has decreased \$3,173,700 thousand since submission of the FY 1991 Amended Budget. Adjustments by category of financing are explained below:
1. Anticipated Reimbursements. An increase of \$66,925 thousand is due to an increase in anticipated customer orders.
 2. Reduction due to Public Law 101-511. A decrease of \$2,364 thousand for contractor travel/contract assistance service.
 3. Transfer from Other Accounts. Reflects transfer for Treaty Verification.
 4. Transfer to Other Accounts. Reflects transfer for Military Personnel reprogramming.

COMPARISON OF FY 1990 PROGRAM REQUIREMENTS AS REFLECTED
IN FY 1991 AMENDED BUDGET WITH FY 1990 PROGRAM REQUIREMENTS AS
SHOWN IN FY 1992 BUDGET

SUMMARY OF PROGRAM REQUIREMENTS

	(In Thousands of Dollars)		
	Program Requirements Per 1991 Amended Budget	Program Requirements Per 1992 Budget	Increase (+) or Decrease (-)
BUDGET ACTIVITY			
1. Ballistic Missiles	\$ 886,359	\$ 668,076	\$-218,283
2. Other Missiles	1,353,217	1,366,876	+13,659
3. Modification of In-Service Missiles	77,057	86,428	+9,371
4. Spares and Repair Parts	183,796	174,426	-9,371
5. Other Support	4,089,185	3,996,452	-92,733
6. Reimbursable Program	<u>251,722</u>	<u>225,781</u>	<u>-25,941</u>
Total Fiscal Year Program	\$6,841,386	\$6,518,539	\$-322,847

EXPLANATION BY BUDGET ACTIVITY

1. Ballistic Missiles (-\$218,283). The Peacekeeper program and Peacekeeper, Advance Procurement are reduced a total of \$158,313 thousand pursuant to Section 8102 of the FY991 DOD Appropriation Act. Peacekeeper Advance Procurement is reduced \$53,957 thousand for reprogrammings to Maverick (\$3,500 thousand), Industrial Preparedness (\$450 thousand) and Environmental Restoration (\$32,000 thousand). Missile Replacement Equipment - Ballistic is reduced \$1,800 thousand for a reprogramming to Replacement Equipment - Other.

2. Other Missiles (+\$13,659). The increase of \$13,659 thousand is a net result of reprogrammings for Maverick (+\$9,771 thousand), Industrial Preparedness (+\$450 thousand), Missile Replacement Equipment (+1,800 thousand), and Target Drones (-\$600 thousand).
3. Modification of In-Service Missiles (+\$9,371). The increase of \$9,371 thousand is for a reprogramming to the AOM modification program.
4. Spares and Repair Parts (\$-9,371). Reflects a \$9,371 thousand reduction for a reprogramming to the AOM Modification program.
5. Other Support (-\$92,733). Reflects reprogrammings to Classified Programs, Other Procurement (Special Programs -\$69,000), and AGM-130 (DSP -\$2,000, Shuttle Operations -\$1,700). Also reflects a reduction of 20,033 due to P.L. 101-302.
6. Reimbursable Program (-\$25,941). Decrease is due to revised estimates of customers orders.

COMPARISON OF FY 1990 FINANCING AS REFLECTED
IN FY 1991 AMENDED BUDGET WITH FY 1991 FINANCING AS
SHOWN IN FY 1992 BUDGET

	(In Thousands of Dollars)		
	Financing Per FY 1991 Amended Budget	Financing Per FY 1992 Budget	Increase (+) or Decrease (-)
Program Requirements	\$6,841,386	\$6,518,539	\$-322,847
Program Requirements (Service Account)	(6,589,614)	(6,292,758)	(-296,856)
Program Requirements (Reimbursable)	(251,772)	(225,781)	(-25,971)
Less:			
Anticipated Reimbursements	251,772	225,781	-25,791
Transfers from Other Accounts	-	24,200	24,200
Add:			
Transfer to Other Accounts	174,141	262,442	88,301
Reduction due to P.L. 101-165	153,108	153,108	-
Reduction due to P.L. 101-511	-	162,613	162,613
Reduction due to P.L. 101-302	-	70,142	70,142
Appropriation	\$6,916,863	\$6,916,863	-