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RDXR-AC-83-3

DEPARTMENT OF THE AIR FORCE

JUSTIFICATION OF ESTIMATES FOR FISCAL YEAR 1983
SUBMITTED TO CONGRESS FEBRUARY 1982

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Aircraft Procurement, Air Force
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This document provides justification on United States Air Force Procurement Estimates submitted to Congressional Committees during FY 83 hearings.

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DEPARTMENT OF THE AIR FORCE

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AIRCRAFT PROCUREMENT, AIR FORCE

For construction, procurement, and modification of aircraft and equipment, including armor and armament, specialized ground handling equipment and training devices, spare parts, and accessories therefor; the U.S. share of the NATO AWACS program; specialized equipment, expansion of public and private plants, Government-owned equipment and installation thereof in such plants, erection of structures, and acquisition of land without regard to section 9774 of title 10, United States Code, for the foregoing purposes, and such lands and interests therein, may be acquired, and construction prosecuted thereon prior to the approval of title as required by section 355, Revised Statutes, as amended; reserve plant and Government and contractor-owned equipment layaway; and other expenses necessary for the foregoing purposes including rents and transportation of things; $17,756,700,000 to remain available for obligation until September 30, 1985 (5 U.S.C. 3109; 10 U.S.C. 2271-79; 2353, 2386, 2663, 2672, 2672a, 8012, 8062, 9501-02, 9505, 9531-32, 9741-42; 31 U.S.C. 649c, 718; 50 U.S.C. 451, 453, 455; Department of Defense Appropriation Act, 1982, additional authorizing legislation to be proposed).

Program and Financing (in thousands of dollars)

Identification code 57-3010-0-1-051	Budget plan (amounts for procurement actions programed)			Obligations		
	1981 actual	1982 est.	1983 est.	1981 actual	1982 est.	1983 est.
Program by activities:						
Direct:						
1. Combat aircraft	4,002,990	5,347,900	8,771,200	4,056,011	4,174,328	8,415,648
2. Airlift aircraft	68,900	280,400	805,000	149,617	123,689	415,374
4. Other aircraft	148,400	146,500	156,500	78,256	137,332	177,694
5. Modification of inservice aircraft	1,835,.15	2,,15,100	2,600,000	1,716,995	1,698,148	2,212,116
6. Aircraft spares and repair parts	2,709,755	3,693,600	3,656,600	2,682,240	3,100,999	3,089,303
7. Aircraft support equipment and facilities	1,502,468	2,019,298	1,767,400	1,416,571	1,989,553	1,962,781
Total direct	10,297,628	13,802,798	17,756,700	10,099,590	11,424,238	16,272,916
Reimbursable program	311,017	470,000	152,000	270,246	472,578	278,225
10.0001 Total	10,608,345	14,272,798	17,908,700	10,369,836	11,896,816	16,551,141
Financing:						
Offsetting collections from:						
11.0001 Federal funds	-44,370	-46,000	-48,000	-27,003	-46,000	-46,000
13.0001 Trust funds	-266,345	-422,000	-101,000	-271,236	-422,000	-101,000
14.0001 Non-federal sources	-302	-2,000	-3,000	-155	-2,000	-3,000
17.0001 Recoveries of prior year obligations(-)	.....	.....	.....	-5,116	.....	.....
Unobligated balance available, start of year:						
21.4001 For completion of prior year budget plans	.....	.....	.....	-2,090,473	-2,227,727	-4,603,709
21.4002 Available to finance new budget plans	-9,400	-162,900	.....	-9,400	-162,900	.....
21.4003 Reprograming from or to prior year budget plan	-94,048	.....	.....	.....	.....	.....
23.4001 Unobligated balance transferred to other accounts	9,400	.....	.....	9,400	.....	.....
Unobligated balance available, end of year:						
24.4001 For completion of prior year budget plans	.....	.....	.....	2,227,727	4,603,709	5,961,268
24.4002 Available to finance subsequent year budget plans	162,900	.....	.....	162,900	.....	.....
25.0001 Unobligated balance lapsing	57,948	162,900	.....	57,948	162,900	.....
39.0001 Budget authority	10,424,428	13,802,798	17,756,700	10,424,428	13,802,798	17,756,700
Budget authority:						
40.0001 Appropriation	10,427,428	13,818,998	17,756,700	10,427,428	13,818,998	17,756,700
41.0001 Transferred to other accounts(-)	-3,000	-179,100	.....	-3,000	-179,100	.....
43.0001 Appropriation (adjusted)	10,424,428	13,639,898	17,756,700	10,424,428	13,639,898	17,756,700
50.0001 Reappropriation	.....	162,900	.....	.....	162,900	.....
Relation of obligations to outlays:						
71.0001 Obligations incurred, net				10,071,442	11,426,816	16,399,141
72.4001 Obligated balance, start of year				9,887,644	11,955,175	14,235,091
74.4001 Obligated balance, end of year				-11,955,175	-14,235,091	-18,289,332
77.0001 Adjustments in expired accounts				-57,730	.....	.....
78.0001 Adjustments in unexpired accounts				-5,116	.....	.....
90.0001 Outlays				7,941,065	9,148,900	12,344,900

(6)

Object Classification (in thousands of dollars)

Identification code 57-3010-0-1-051	1981 actual	1982 est.	1983 est.
Direct obligations:			
131.001 Equipment	10,099,590	11,424,238	16,272,916
199.001 Total direct obligations	10,099,590	11,424,238	16,272,916
Reimbursable obligations:			
231.001 Equipment	270,246	474,578	278,225
999.901 Total obligations	10,369,836	11,898,816	16,551,141

AF | Aircraft Procurement, Air Force | 08 FEB 82

Program and Financing (in thousands of dollars) | 1979 Fiscal year program

Identification code 57-3010-0-1-051	Budget plan (amounts for procurement actions programed)			Obligations		
	1981 actual	1982 est.	1983 est.	1981 actual	1982 est.	1983 est.
Program by activities:						
Direct:						
1. Combat aircraft	.....	.....	.....	369,200	.....	.....
2. Airlift aircraft	.....	.....	.....	20	.....	.....
5. Modification of inservice aircraft	.....	.....	.....	73,204	.....	.....
6. Aircraft spares and repair parts	.....	.....	.....	43,630	.....	.....
7. Aircraft support equipment and facilities	.....	.....	.....	78,762	.....	.....
Total direct	.....	.....	.....	564,866	.....	.....
Reimbursable program	.....	.....	.....	14,835	.....	.....
10.0001 Total	.....	.....	.....	579,701	.....	.....
Financing:						
Offsetting collections from:						
11.0001 Adjustment to prior year federal fund orde	.....	.....	.....	-249	.....	.....
13.0001 Adjustment to prior year trust fund orders	.....	.....	.....	-13,865	.....	.....
14.0001 Adjustment to non-federal sources	.....	.....	.....	3	.....	.....
17.0001 Recoveries of prior year obligations(-)	.....	.....	.....	-23	.....	.....
Unobligated balance available, start of year:						
21.4001 For completion of prior year budget plans	.....	.....	.....	-623,815	.....	.....
21.4002 Reprograming from or to prior year budget plan	-57,948	.....	.....	.....	.....	.....
25.0001 Unobligated balance lapsing	57,948	.....	.....	57,948	.....	.....
40.0001 Budget authority	.....	.....	.....	.....	.....	.....

Program and Financing (in thousands of dollars) — 1980 Fiscal year program

Identification code 57-3010-0-1-051	Budget plan (amounts for procurement actions programed)			Obligations		
	1981 actual	1982 est.	1983 est.	1981 actual	1982 est.	1983 est.
Program by activities:						
Direct:						
1. Combat aircraft	.....	.....	.....	260,694	204,519	.....
2. Airlift aircraft	.....	.....	.....	82,805	2,923	.....
4. Other aircraft	.....	.....	.....	1,925	2,097	.....
5. Modification of inservice aircraft	.....	.....	.....	267,306	154,660	.....
6. Aircraft spares and repair parts	.....	.....	.....	164,775	19,916	.....
7. Aircraft support equipment and facilities	.....	.....	.....	69,208	56,994	.....
Total direct	.....	.....	.....	846,711	441,309	.....
Reimbursable progra	.....	.....	.....	54,301	66,896	.....
10.0001 Total	.....	.....	.....	901,012	508,205	.....
Financing:						
Offsetting collections from:						
11.0001 Adjustment to prior year federal fund orde	.....	.....	.....	17,616	.....	.....
13.0001 Adjustment to prior year trust fund orders	.....	.....	.....	8,674	.....	.....
14.0001 Adjustment to non-federal sources	.....	.....	.....	144	.....	.....
17.0001 Recoveries of prior year obligations(-)	.....	.....	.....	-5,093	.....	.....
Unobligated balance available, start of year:						
21.4001 For completion of prior year budget plans	.....	.....	.....	-1,466,658	-508,205	.....
21.4002 Available to finance new budget plans	-9,400	-36,100	.....	-9,400	-36,100	.....
21.4003 Reprograming from or to prior year budget plan	-36,100	.....	.....	.....	.....	.....
23.4001 Unobligated balance transferred to other accounts	9,400	.....	.....	9,400	.....	.....
Unobligated balance available, end of year:						
24.4001 For completion of prior year budget plans	.....	.....	.....	508,205	.....	.....
24.4002 Available to finance subsequent year budget plans	36,100	.....	.....	36,100	.....	.....
25.0001 Unobligated balance lapsing	.....	36,100	.....	.....	36,100	.....
40.0001 Budget authority	.....	.....	.....	.....	.....	.....

AF | Aircraft Procurement, Air Force | 08 FEB 82

Program and Financing (in thousands of dollars) | 1981 Fiscal year program

Identification code 57-3010-0-1-051

		Budget plan (amounts for procurement actions programed)			Obligations		
		1981 actual	1982 est.	1983 est.	1981 actual	1982 est.	1983 est.
	Program by activities:						
	Direct:						
	1. Combat aircraft	4,002,990	.....	.....	3,426,117	158,486	418,387
	2. Airlift aircraft	68,900	.....	.....	66,692	1,321	887
	4. Other aircraft	148,400	.....	.....	76,331	25,360	46,709
	5. Modification of inservice aircraft	1,865,115	.....	.....	1,876,485	163,338	325,292
	6. Aircraft spares and repair parts	2,709,755	.....	.....	2,473,785	91,582	144,388
	7. Aircraft support equipment and facilities	1,502,468	.....	.....	1,268,603	100,719	133,146
	Total direct	10,297,628	.....	.....	8,688,013	540,808	1,068,809
	Reimbursable program	311,017	.....	.....	201,110	53,682	56,225
10.0001	Total	10,608,645	.....	.....	8,889,123	594,488	1,125,034
	Financing:						
	Offsetting collections from:						
11.0001	Federal funds	-44,370	.....	.....	-44,370	.....	.....
13.0001	Trust funds	-266,345	.....	.....	-266,345	.....	.....
14.0001	Non-federal sources	-302	.....	.....	-302	.....	.....
	Unobligated balance available, start of year:						
21.4001	For completion of prior year budget plans	.....	.....	.....	.....	-1,719,522	-1,125,034
21.4002	Available to finance new budget plans	.....	-126,800	.....	.....	-126,800	.....
	Unobligated balance available, end of year:						
24.4001	For completion of prior year budget plans	.....	.....	.....	1,719,522	1,125,034	.....
24.4002	Available to finance subsequent year budget plans	126,800	.....	.....	126,800	.....	.....
25.0001	Unobligated balance lapsing	.....	126,800	.....	.....	126,800	.....
39.0001	Budget authority	10,424,428	.....	.....	10,424,428	.....	.....
	Budget authority:						
40.0001	Appropriation	10,427,428	.....	.....	10,427,428	.....	.....
41.0001	Transferred to other accounts(-)	-3,000	.....	.....	-3,000	.....	.....
43.0001	Appropriation (adjusted)	10,424,428	.....	.....	10,424,428	.....	.....

Program and Financing (in thousands of dollars) 1982 Fiscal year program

Identification code 57-3010-0-1-051	Budget plan (amounts for procurement actions programed)			Obligations		
	1981 actual	1982 est.	1983 est.	1981 actual	1982 est.	1983 est.
Program by activities:						
Direct:						
1. Combat aircraft	.....	5,347,900	.....	.....	3,811,323	812,793
2. Airlift aircraft	.....	260,400	.....	.....	119,625	22,330
4. Other aircraft	.....	146,500	.....	.....	109,875	20,510
5. Modification of inservice aircraft	.....	2,115,100	.....	.....	1,579,950	294,924
6. Aircraft spares and repair parts	.....	3,893,600	.....	.....	2,989,500	558,040
7. Aircraft support equipment and facilities	.....	2,019,298	.....	.....	1,831,850	131,460
Total direct	.....	13,802,798	.....	.....	10,442,123	1,840,057
Reimbursable program	.....	470,000	.....	.....	352,000	108,000
10.0001 Total	.....	14,272,798	.....	.....	10,794,123	1,948,057
Financing:						
Offsetting collections from:						
11.0001 Federal funds	.....	-46,000	.....	.....	-46,000	.....
13.0001 Trust funds	.....	-422,000	.....	.....	-422,000	.....
14.0001 Non-federal sources	.....	-2,000	.....	.....	-2,000	.....
21.4001 Unobligated balance available, start of year	.....	.....	.....	.....	.....	-3,478,675
24.4001 Unobligated balance available, end of year	.....	.....	.....	.....	3,478,675	1,530,618
39.0001 Budget authority	.....	13,802,798	.....	.....	13,802,798	.....
Budget authority:						
40.0001 Appropriation	.....	13,818,998	.....	.....	13,818,998	.....
41.0001 Transferred to other accounts(-)	.....	-179,100	.....	.....	-179,100	.....
43.0001 Appropriation (adjusted)	.....	13,639,898	.....	.....	13,639,898	.....
50.0001 Reappropriation	.....	162,900	.....	.....	162,900	.....

Program and Financing (in thousands of dollars) — 1983 fiscal year program

Identification code 57-3010-0-1-051	Budget plan (amounts for procurement actions programed)			Obligations		
	1981 actual	1982 est.	1983 est.	1981 actual	1982 est.	1983 est.
Program by activities:						
Direct:						
1. Combat aircraft	.....	.....	8,771,200	.....	.....	7,184,468
2. Airlift aircraft	.....	.....	805,000	.....	.....	392,157
4. Other aircraft	.....	.....	156,500	.....	.....	110,475
6. Modification of inservice aircraft	.....	.....	2,600,000	.....	.....	1,691,900
6. Aircraft spares and repair parts	.....	.....	3,656,600	.....	.....	2,380,875
7. Aircraft support equipment and facilities	.....	.....	1,767,400	.....	.....	1,698,175
Total direct	.....	.....	17,756,700	.....	.....	13,364,050
Reimbursable program	.....	.....	152,000	.....	.....	114,000
10.0001 Total	.....	.....	17,908,700	.....	.....	13,478,050
Financing:						
Offsetting collections from:						
11.0001 Federal funds	.....	.....	-48,000	.....	.....	-48,000
13.0001 Trust funds	.....	.....	-101,000	.....	.....	-101,000
14.0001 Non-federal sources	.....	.....	-3,000	.....	.....	-3,000
24.4001 Unobligated balance available, end of year	.....	.....	.....	.....	.....	4,430,650
40.0001 Budget authority	.....	.....	17,756,700	.....	.....	17,756,700

(Supplemental now requested under existing legislation)

Program and Financing (in thousands of dollars)

Identification code 57-3010-1-1-051	Budget plan (amounts for procurement actions programed)			Obligations		
	1981 actual	1982 est.	1983 est.	1981 actual	1982 est.	1983 est.
Program by activities:						
Direct:						
1. Combat aircraft	.....	115,000	.....	.....	86,600	18,320
2. Airlift aircraft	.....	99,100	.....	.....	74,000	13,800
6. Aircraft spares and repair parts	.....	5,000	.....	.....	3,750	540
10.0001 Total	.....	219,100	.....	.....	164,350	30,660
Financing:						
21.4001 Unobligated balance available, start of year	.....	.....	.....	.....	.....	-54,750
24.4001 Unobligated balance available, end of year	.....	.....	.....	.....	54,750	24,090
40.0001 Budget authority (appropriation)	.....	219,100	.....	.....	219,100	.....
Relation of obligations to outlays:						
71.0001 Obligations incurred, net				.....	164,350	30,660
72.4001 Obligated balance, start of year				.....	.....	145,750
74.4001 Obligated balance, end of year				.....	-145,750	-63,510
90.0001 Outlays				.....	18,600	112,900

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(Supplemental now requested under existing legislation)

Object Classification (in thousands of dollars)

Identification code 57-3010-1-1-051		1981 actual	1982 est.	1983 est.
121.001	Equipment	.....	164,350	30,660
999.901	Total obligations	.....	164,350	30,660

(In Thousands of Dollars)	
Program Requirement - FY 84 ...	$24,036,500
Program Requirement - FY 83 ...	17,756,700
Program Requirement - FY 82 ...	13,802,798
Program Requirement - FY 81 ...	10,297,628

PART I PURPOSE AND SCOPE

This appropriation provides for procurement of aircraft, for modification of in-service aircraft to improve safety, extend service life, improve reliability/supportability, and enhance operational effectiveness, and for the U.S. share of the NATO AWACS program. It also provides for investment spares and repair parts including spare engines, replenishment spares, and other support equipment to include aerospace ground equipment and industrial facilities. In addition, funds are provided for the procurement of flight training simulators. Management of the aircraft program is facilitated by collecting, in a single appropriation, all funds for the prime aircraft weapon system and related specialized ground handling and test equipment.

In the activity justifications which follow, additional details are provided by budget activity. The activities are: combat aircraft, airlift aircraft, trainer aircraft, and other aircraft; modification of in-service aircraft; aircraft spares and repair parts; aircraft support equipment and facilities; and the reimbursable program.

Each of the four aircraft activities consists of the following elements, as applicable, which together constitute the weapon system cost:

Flyaway Cost - This element consists of the complete aircraft ready to be flown away from the manufacturer's plant and includes airframe, engines, communications and electronics equipment, photographic equipment, armament, instruments, auxiliary equipment installed in the aircraft, and certain non-recurring costs for tooling and other start-up costs.

Peculiar Support Equipment, Training Devices, and Technical Data - This element includes equipment requirements which are applicable to a specific weapon system such as specialized equipment for maintenance, repair and test of a weapon system, subsystem, or its components; special training devices applicable to a specific weapon system such as mobile training units, flight simulators, instrument trainers, and air navigation trainers; and procurement of engineering handbooks, manuals, and other technical data identified with the specific aircraft being procured. Requirements in these categories are established to provide for scheduled delivery of the support equipment in phase with deliveries of the weapon system.

Credits from Advance Procurement Prior Year - This element identified assets applied to a program from advance procurement provided in a prior year for items having a longer lead time than the airframe.

Advance Procurement Current Year - This element identifies requirements associated with follow-on aircraft programs which have a longer procurement lead time than the airframe and which therefore must be procured in advance of the airframe.

PART II JUSTIFICATION OF FUNDS REQUESTED

The program to be financed with the appropriation for fiscal year 1983 includes $8,771.2 million to procure additional modern aircraft for the combat forces, $805.0 million for airlift aircraft, and $156.5 million for other aircraft. The fiscal year 1984 program includes $10,241.9 million for combat aircraft, $2,020.6 million for airlift aircraft, $4.6 million for trainer aircraft, and $268.6 million for other aircraft.

The fiscal year 1983 estimate also provides $2,600.0 million for modification and modernization of in-service aircraft necessary for safety-of-flight, extension of service life, and to incorporate operational improvements after an aircraft has entered service. The program is designed to maintain the Air Force aircraft inventory at the most modern configuration level at minimum cost. The fiscal year 1983 estimate compares with programs of $1,865.1 million and $2,115.1 million for fiscal years 1981 and 1982, respectively. The fiscal year 1984 program is $4,056.0 million.

Aircraft spares and repair parts are also financed under this appropriation. The spares and repair parts activity includes centrally procured and managed, investment-type spare components and repair parts associated with the procurement of new aircraft, the modification program, peculiar and common aerospace ground equipment programs, and the replenishment spares category, which provides for Air Force operational, maintenance, and overhaul programs. For fiscal year 1983, the request amounts to $3,656.6 million. The fiscal year 1984 program is $5,084.4 million.

The aircraft support equipment and facilities activity provides for common aerospace ground equipment, industrial facilities, war consumables, other charges, and the U.S. share of NATO AWACS. The program requirements for fiscal year 1983 are $1,767.4 million as compared to $2,019.3 million in fiscal year 1982. The fiscal year 1984 program is $2,360.4 million.

The requirement for the reimbursable program for fiscal year 1983 is $152.0 million. This program provides for those aircraft and related items which must be procured to satisfy customer orders.

(In Thousands of Dollars)

Program Requirement - FY 82... $219,100

FY 1982 Supplemental

This supplemental requests a net increase of $219.1 million in fiscal year 1982 for additional aircraft for combat forces in the amount of $115.0 million, $99.1 million for airlift aircraft, and $5.0 million for aircraft spares and repair parts.

SUMMARY OF REQUIREMENTS (In Thousands of Dollars)

	FY 1981 Actual	FY 1982 Estimate	FY 1983 Estimate
Combat aircraft	$4,002,990	$5,347,900	$8,771,200
Airlift aircraft	68,900	280,400	805,000
Other aircraft	148,400	146,500	156,500
Modification of in-service aircraft	1,865,115	2,115,100	2,600,000
Aircraft spares and repair parts	2,709,755	3,893,600	3,656,600
Aircraft support equipment and facilities	1,502,468	2,019,298	1,767,400
TOTAL DIRECT PROGRAM	$10,297,628	$13,802,798	$17,756,700
Reimbursable program	311,017	470,000	152,000
TOTAL PROGRAM REQUIREMENTS (CURRENT)	$10,608,645	$14,272,798	$17,908,700
Less: Portion of program to be obligated in subsequent fiscal years	1,719,522	3,478,675	4,430,650
Plus: Obligations incurred against prior year program funds	1,480,713	1,102,693	3,073,091
TOTAL OBLIGATIONS	$10,369,836	$11,896,816	$16,551,141

SUMMARY OF REQUIREMENTS
(FY 1982 Program Supplemental)
(In Thousands of Dollars)

	FY 1982 ESTIMATE
Combat Aircraft	$115,000
Airlift Aircraft	99,100
Aircraft Spares and Repair Parts	5,000
TOTAL DIRECT PROGRAM	$219,100
Less: Portion of program to be obligated in subsequent fiscal years	54,750
TOTAL OBLIGATIONS	$164,350

SUMMARY OF PROGRAM REQUIREMENTS

(In Thousands of Dollars)

	FY 1984 Estimate
Combat aircraft	$10,241,900
Airlift aircraft	2,020,600
Trainer aircraft	4,600
Other aircraft	268,600
Modification of in-service aircraft	4,056,000
Aircraft spares and repair parts	5,084,400
Aircraft support equipment and facilities	2,360,400
TOTAL DIRECT PROGRAM	$24,036,500

(In Thousands of Dollars)	
Program Requirement - FY 84 ...	$10,241,900
Program Requirement - FY 83 ...	8,771,200
Program Requirement - FY 82 ...	5,347,900
Program Requirement - FY 81 ...	4,002,990

ACTIVITY: Combat Aircraft

PART I PURPOSE AND SCOPE

This activity provides for the procurement of new aircraft, associated flight simulation devices, and other peculiar training and support equipment to continue modernization of U.S. combat forces and improve the efficiency of training programs.

Combat aircraft are required to attain and maintain air superiority, interdict enemy supply lines, provide reconnaissance of enemy forces, and furnish close air support to ground forces. The aircraft can be used to counter a variety of threats and offer options of response ranging from the use of diversified conventional weapons through, in the case of U.S. forces, a variety of nuclear weapons.

The FY 1983 and FY 1984 programs include funds for the procurement of B-1B, A-10, F-5E/F, F-15, F-16, KC-10A, MC-130H and E-3A (AWACS) aircraft. The programs also include funds for procurement of flight simulators for F-15, F-16 and KC-10A aircraft The F-16 request incorporates the second increment of the Multiyear Procurement program.

PART II JUSTIFICATION OF FUNDS REQUESTED

The total FY 1983 and FY 1984 fund requirements by FY, for procurement of combat aircraft, related support items, and advance procurement funding in support of the following year's program are: FY 1983 - $8,771.2 million; and FY 1984 - $10,241.9 million. Details are as follows:

B-1B (FY 1983 - 7 aircraft, $3,866.1 million; FY 84 - 10 aircraft. $5,340.8 million):

The B-1B is a strategic multi-role weapon system which maximizes range and payload capabilities, and is able to perform the mission of conventional bomber, cruise missile launch platform, and nuclear weapons delivery system in both the tactical and strategic roles. Production of the B-1B addresses U.S. requirements to increase our targeting flexibility, to redress the relative decline of our strategic capabilities, and to revitalize our strategic deterrent. The B-1B program will significantly enhance the bomber leg of the strategic TRIAD while preserving the vitally needed flexibility of non-nuclear force projection in response to unforeseen contingencies worldwide.

A-10 (FY 1983 - 20 aircraft, $357.3 million):

The A-10 attack aircraft is specifically designed for the close air support role. It is a single-seat, twin turbofan powered, fixed wing, subsonic aircraft capable of carrying a versatile ordnance load and is armed with one 30MM rapid fire gun system. The A-10 meets the requirement to provide close supporting fire, armed escort, and armed reconnaissance in battle areas involving anti-tank and anti-mechanized vehicle operations in close proximity to friendly ground forces. The firepower, survivability, and long-loiter capability of the A-10 provide an improved close air support capability. The A-10 initial operational capability was achieved in Oct 1977, three months ahead of schedule. The FY 1983 request is for procurement of 20 A-10 aircraft, 6 single-seat A-10As and 14 two-seat A-10Bs.

F-5E/F (FY 1983 - 3 aircraft, $28.5 million; FY 1984 - 5 aircraft, $45.0 million):

The F-5 is a fixed wing, twin engine, supersonic aircraft designed primarily as an air superiority fighter. The F-5 will be used as part of the aggressor force for Dissimilar Aerial Combat Tactics (DACT) training at Nellis AFB - Red Flag.

F-15A/B/C/D (FY 1983 - 42 aircraft, $1,602.2 million; FY 1984 - 60 aircraft, $2,051.3 million):

The F-15 (A/C) is a twin engine (P&W F100), single crew (B/D is two-crew), fixed swept wing, advanced tactical fighter designed for the counter air mission. It is characterized by high thrust-to-weight and low wing loading for maximum acceleration and maneuverability. The main purpose of the F-15 is to provide the Air Force with an aircraft which can defeat Soviet-built fighters of the 1980s. It has the maneuverability, armament, and fire control needed to surpass the capabilities expected from Soviet aircraft in that period. The F-15 has replaced the F-4 as the primary air superiority aircraft. The basic take-off thrust-to-weight ratio of the F-15 is greater than one-to-one and will permit the F-15 to out-climb, out-accelerate and out-turn any known or projected threat during this time period.

F-16 (Air Combat Fighter) (FY 1983 - 120 aircraft, $1,958.7 million; FY 1984 - 120 aircraft, $1,992.0 million):

The F-16 is a new multi-purpose fighter incorporating advanced technology features proven in the Lightweight Fighter (LWF) prototype program. The goal is to deploy a fighter which can perform an acceptable spectrum of tactical air warfare tasks at minimum costs. The design characteristics of the F-16 are such as to permit high sortie rates with rapid turn around; minimum manpower/logistics burden; and exceptional air combat maneuvering performance, coupled with a potent air-to-ground weapons delivery capability. The F-16 will also enable modernization and standardization of equipment among those allied countries which choose to replace their aging tactical fighter forces with F-16s. This request is for the procurement of the second increment of the F-16 Multiyear Procurement program.

KC-10A (Advanced Tanker-Cargo Aircraft) (FY 1983 - 8 aircraft, $790.1 million; FY 1984 - 8 aircraft, $539.6 million):

The KC-10A Advanced Tanker/Cargo Aircraft will be a production-line McDonnell Douglas DC-10 modified only as necessary to provide an air refueling capability and to fully exploit the aircraft's cargo carrying potential.

MC-130H (FY 1984 - 2 aircraft, $69.0 million):

This aircraft is a medium size tactical transport powered by four T-56-A-15 turboprop engines. Features of this specially modified C-130 are precision navigation, terrain following radar, Electronic Counter Measures (ECM) subsystems, in-flight refueling, and helicopter refueling.

E-3A (AWACS) (FY 1983 - 2 aircraft, $166.3 million; FY 1984 - 1 aircraft, $200.2 million):

The E-3 (AWACS) provides an airborne surveillance, command, control, and communications system for use in both tactical and strategic defensive operations. The airborne platform, and modified Boeing 707 aircraft, is common for both types of operation with interchangeability for the two missions being easily accommodated by changing the control processor software. The E-3A (AWACS) can operate as a self-contained, survivable force management center, or an adjunct to an established ground control net. Its distinguishing technical feature is the capability for long range detection and tracking of airborne objects operating at high or low altitudes over both land and water for extended periods.

(In Thousands of Dollars)

Program Requirement - FY 82 $115,000

FY 1982 Supplemental

ACTIVITY: Combat Aircraft

JUSTIFICATION OF FUNDS REQUESTED

KC-10A (Advanced Tanker - Cargo Aircraft) (FY 82 Supplemental - 2 aircraft, $115.0 million):

The capability of the KC-10 to support airlift requirements is unique. It can carry cargo and also extend the range and payload of the C-141 and C-5 transport aircraft through aerial refueling. Additional KC-10s are being procured both because of their flexible capability, and because they are available soon at a very favorable price within the framework of an existing contract negotiated under intense competition.

(In Thousands of Dollars)

Program Requirement - FY 84 ...	$2,020,600
Program Requirement - FY 83 ...	805,000
Program Requirement - FY 82 ...	280,400
Program Requirement - FY 81 ...	68,900

ACTIVITY: Airlift Aircraft

PART I PURPOSE AND SCOPE

This activity provides for the procurement of new aircraft and support items to continue improvement of the U.S. airlift forces. The FY 1983 and FY 1984 programs include funds for the procurement of C-5B, EDSA (European Distribution System Aircraft), and C-140B Replacement aircraft.

PART II JUSTIFICATION OF FUNDS REQUESTED

The total FY 1983 and FY 1984 fund requirements by FY, for procurement of airlift aircraft, related support items, and advance procurement funding in support of the following years program are: FY 1983 - $805.0 million; FY 1984 - $2,020.6 million. Details are as follow:

C-5B (FY 1983 - 2 aircraft, $800.0 million; FY 1984; - 10 aircraft, $1,950.0 million):

The C-5 is a service-proven, wide-bodied, intertheater airlift aircraft that can carry the full spectrum of military air cargo. It is the world's largest military airlifter; it can onload/offload cargo at truckbed height or ground level at each end of the cargo compartment.

EDSA (European Distribution System Aircraft) (FY 1983 - 2 aircraft, $5.0 million; FY 1984 - 16 aircraft, $34.4 million):

The European Distribution System Aircraft will be a small off-the-shelf commercially certified, turbo-prop, cargo aircraft with the capability to operate into and out of runways of 2,000 feet or less. This aircraft will be configured to transport small, critical TACAIR aircraft spare parts and will have the capability to transport a built-up F-100 aircraft engine (5,000 lbs.) as the largest single contingency load.

C-140B Replacement (FY 1984 - 2 aircraft, $36.2 million):

This aircraft will be an existing "off-the-shelf" FAA certified business jet type production aircraft. Useful life will be at least 20 years. It will not have a combat role; however, during wartime, the C-140B will continue to perform support missions into areas that include theaters of war.

(in Thousands of Dollars)

Program Requirement - FY 82 $99,100

FY 1982 Supplemental

ACTIVITY: Airlift Aircraft

JUSTIFICATION OF FUNDS REQUESTED

C-5B (FY 82 Supplemental, $99.1 million):

A significant airlift shortfall exists now. The C-5B delivers the most capability, soonest, and is therefore the most attractive near term option. The early availability is made possible by the existence of government owned tooling and engineering drawings. Also, the C-5B does not represent a new development and therefore avoids the attendant research and development costs.

(In Thousands of Dollars)

Program Requirement - FY 84 ...	$4,600
Program Requirement - FY 83 ...	0
Program Requirement - FY 82 ...	0
Program Requirement - FY 81 ...	0

ACTIVITY: Trainer Aircraft

PART I PURPOSE AND SCOPE

This activity provides for the procurement of new aircraft, associated flight simulation devices, and support equipment required for flight training. The FY 1984 program is for procurement of the Tanker, Transport, Bomber (TTB) Trainer.

PART II JUSTIFICATION OF FUNDS REQUESTED

No funds are requested for FY 1983. The FY 1984 request of $4.6 million is for procurement of one Tanker, Transport, Bomber Trainer aircraft. The TTB Trainer will be an off-the-shelf twin engine aircraft which will be used to conduct the basic phase of pilot training for students selected for operational assignment to tanker, transport, or bomber aircraft. The TTB aircraft will seat two students and one instructor and will have a three hour mission profile with divert capability.

(In Thousands of Dollars)

Program Requirement - FY 84 ...	$268,600
Program Requirement - FY 83 ...	156,500
Program Requirement - FY 82 ...	146,500
Program Requirement - FY 81 ...	148,400

ACTIVITY: Other Aircraft

PART I PURPOSE AND SCOPE

This activity provides for the procurement of HH-60 and TR-1 aircraft in FY 1983 and FY 1984.

PART II JUSTIFICATION OF FUNDS REQUESTED

HH-60D (FY 1984 - 4 aircraft; $55.9 million):

The HH-60D will be a derivative of the Army UH-60A, Black Hawk and the Navy SH-60B, Seahawk. Changes to the UH-60A will include improved avionics, extended range capability, more powerful engines, and necessary mission equipment. The off-the-shelf avionics suite will significantly improve responsiveness and threat avoidance by providing a capability for precision low level navigation at night or in adverse weather.

TR-1 (FY 1983 - 4 aircraft, $156.5 million; FY 1984 - 5 aircraft, $212.7 million):

The TR-1 is a single engine, single crew, fixed wing aircraft specifically designed for high altitude, standoff surveillance missions. Except for two dual-seat training aircraft, all TR-1 aircraft can be equipped with either a reconnaissance sensor package or the Precision Location Strike System (PLSS) equipment. The TR-1 is a variant of the highly reliable, versatile U-2R aircraft currently in the strategic reconnaissance inventory. This vehicle is the only U.S. aircraft capable of long loiter, standoff surveillance from altitudes above 60,000 feet. The tactical reconnaissance TR-1, equipped with the latest sensors, will provide a battlefield surveillance system available to the theater/tactical commander into the 1990s. The Pratt & Whitney modified J-75 engine, available from within the Air Force inventory, provides high maneuverability and sufficient power for accessory/sensor operations.

(In Thousands of Dollars)	
Program Requirement - FY 84 ...	$4,056,000
Program Requirement - FY 83 ...	2,600,000
Program Requirement - FY 82 ...	2,115,100
Program Requirement - FY 81 ...	1,865,115

ACTIVITY: Modification of In-Service Aircraft

PART I PURPOSE AND SCOPE

This budget activity provides for modification and modernization of in-service aircraft, training devices and support equipment necessary for safety, extension of service life, and to incorporate operational improvements after an aircraft has entered service. The program is designed to maintain the Air Force aircraft inventory at the most modern configuration level at the minimum cost.

PART II JUSTIFICATION OF FUNDS REQUESTED

Modifications are necessary to enable the strategic offense, defense, tactical, and support forces to maintain superiority over hostile forces, to extend the active service life of aircraft, and to keep abreast of changing mission requirements. To ensure maximum safety for the aircraft and crews and to enhance capabilities of aircraft in a combat environment, priority modifications are necessary. Modifications are closely examined and priorities established so that only the most essential are accomplished with the funds available.

The FY 1983 program, to a large extent, consists of follow-on requirements for previously initiated modifications. Particularly significant is the requirement to provide long range external cruise missile carriage for the B-52G force and external and internal carriage for the B-52H force. Starting in FY 1983, the B-52H force will be fitted for internal and external carriage of this missile. Both the B-52 G and H forces will be provided the offensive avionics system update modification. Funds are also included in FY 1983 to continue procurement of hardware to reengine KC-135 aircraft with new fuel efficient, high by-pass turbo fan engines. Other significant efforts impacting the program total include:

(1) Updating the penetration and electronic defense capabilities of various weapon systems to improve survivability in a hostile environment.

(2) Provision of tactical support jamming capability.

(3) Enhancements in the E-3A Airborne Warning and Control Aircraft Capability.

(4) Improvement in Peacetime Material Readiness through replacement of unreliable hardware with new state of the art equipment, thus increasing maintability/reliability and decreasing support costs.

(5) Service life extension modifications to allow the aircraft to meet their programmed service life requirements.

Aircraft modification kits are procured on a phased basis, lead time away from installation, which is scheduled concurrent with normal maintenance programs to the maximum extent possible. Complex modifications are installed at Air Force depots or contractor facilities, concurrent with programmed depot maintenance. Where the installation tasks are less complex or require a relatively small number of man-hours, they are accomplished in the field by assigned personnel or specialized teams dispatched from the depot or provided by contractors.

B-52 (FY 83 - $554.6 million; FY 84 - $904.8 million). The FY 1983 program includes: follow-on modifications for Offensive Avionics modernization, long range Air Launched Cruise Missile carriage in the amount of $459.6 million; Tail Warning capability in the amount of $11.9 million; Aircraft Monitor and Control System for nuclear weapons in the amount of $10.9 million; and $43.9 million for several reliability/supportability improvements including the environmental control system, fuel quantity indicating system, and various other improvements. $28.3 million is included to initiate new modifications for the B-52 to provide External Conventional Weapons Carriage for a part of the B-52G force, and reliability/supportability to the radar antenna, and the defensive fire control system.

The FY 1984 program will continue modifications previously started, and initiate new programs to provide Electronic Countermeasures to counter the SUAWACS, nuclear hardening, and various reliability/maintainability improvements to the B-52.

A-7 (FY 83 - $41.5 million; FY 84 - $36.7 million). The FY 1983 program continues the new digital scan converter modification in the amount of $15.4 million, the TF-41 Engine Hot Section improvement for $23.6 million, and various reliability/maintainability improvements for $2.1 million. $.4 million is also included to initiate a modification for improvement of the Central Air Data Computer Test Set required to assure supportability of this component.

The FY 1984 program continues procurement of the modifications previously started.

A-10 (FY 83 - $92.3 million; FY 84 - $178.0 million). In FY 1983, $54.0 million is included to continue procurement of an Inertial Navigation Capability, and $38.3 million is for reliability and safety improvements which have been identified in the production line or early operational experience.

The FY 1984 program continues these modifications previously initiated including $55.3 million for the Inertial Navigation Capability and $36.5 million for the Turbine Engine Monitoring System which will improve maintenance of the engine while reducing support costs. $46.6 million is programmed to initiate the SEEK TALK Jam Resistant Radio program; and $1.7 million to initiate a Tactical Aircraft Identification program.

F/RF-4 (FY 83 - $127.3 million; FY 84 - $282.5 million). The FY 1983 program continues procurement of Radar Warning Receiver Update for the F-4D and F-4E in the amount of $55.8 million; VINSON and PARKHILL Tactical Secure Voice in the amount of $4.5 million; Low Smoke Engine Capability in the amount of $27.7 million; a modification to rework the Outer Wing to maintain structural integrity for $17.7 million; replacement of the Inertial Navigation System in the F-4G to improve reliability for $8.3 million; and $8.0 million for various other reliability/maintainability modifications. $5.3 million is programmed to initiate a modification to provide carry and launch of the HARM Missile for the F-4G aircraft.

The FY 1984 program continues the modifications initiated in previous years and provides for initiation of a Performance Update Program and an Expanded Data Capability for the F-4G aircraft. It also include $29.8 million to initiate a conversion of additional F-4E aircraft to the F-4G WILD WEASEL configuration; and $2.6 million to initiate the Tactical Aircraft Identification System.

F-5 (FY 83 - $3.4 million; FY 84 - $1.9 million). The FY 1983 program provides $3.4 million for safety and reliability improvements.

The FY 1984 program continues improvements begun in previous years.

F-15 (FY 83 - $36.2 million; FY 84 - $74.3 million). $3.5 million continues a modification to provide a Cockpit Television Sensor/Airborne Video Tape Recorder capability and $16.7 million continues a modification to improve reliability of the UHF radio and TACAN and provide a secure voice capability in FY 1983. Also included in the FY 1983 program, $3.1 million to initiate a modification to provide a Tactical Aircraft Identification capability, and $12.9 million for various reliability and maintainability modifications.

The FY 1984 program continues modifications started in previous years, and initiation of an All Environment Identification capability, a SEEK BANDIT capability and various reliability and maintainability improvements.

F-16 (FY 83 - $40.1 million; FY 84 - $77.3 million). The FY 1983 program of $40.1 million is to continue the update of operational aircraft and engines to a standard configuration compatible with changes being incorporated into aircraft and engines on the production line.

The FY 1984 program continues the update of operational aircraft and initiates the Multinational Staged Improvement Program modification.

F-111 (FY 83 - $96.0 million; FY 84 - $86.2 million). The FY 1983 program includes: $5.2 million to continue a secure voice capability; $85.7 million for correction of various mission limiting engine and avionics deficiencies previously begun; and an additional $5.1 million to initiate new reliability improvements.

The FY 1984 program continues previously initiated modifications.

EF-111 (FY 83 - $203.6 million). The FY 1983 programs procures the last 9 kits of a modification to incorporate an electronic countermeasure subsystem, the ALQ-99, into 42 F-111A aircraft. The EF-111 provides the capability to accomplish all tactical jamming support missions, i.e., barrier/standoff, close air support and penetration/escort jamming. The F-111 operational performance capabilities will be preserved by installing the ALQ-99 in the weapon bay area and other subsystems will be installed internally. The EF-111A is the replacement for the EB-66 which was phased out at the end of FY 1974 due to age and obsolescence of the jamming equipment. The FY 1983 program completes the production buy program; the last modified aircraft delivers in FY 1986.

TR-1 (FY 83 - $2.3 million; FY 84 - $18.8 million). The FY 1983 program initiates a modification to correct the Angle of Attack System, $1.0 million, and $1.3 million to initiate an improvement to the Inertial Navigation System.

The FY 1984 program continues the Inertial Navigation System improvement and initiates other performance and reliability improvements to assure a standard configuration with the production line aircraft.

A/T-37 (FY 83 - $7.8 million; FY 84 - $4.6 million). The FY 1983 program includes: $3.8 million to correct a safety condition by installing an Attitude Indicating System and initiates a modification to extend the service life of the aircraft to meet the force program requirement in the amount of $3.6 million.

The FY 1984 program continues the service life extension initiated in FY 1983.

C-5A (FY 83 - $251.1 million; FY 84 - $248.5 million). The FY 1983 program continues the production phase of the wing replacement modification necessary to achieve a 30,000 flying hour service life in the amount of $190.2 million; $8.3 million to continue modifications to provide a Secure Voice Capability; $23.0 million to complete procurement of a replacement of the unreliable weather radar with a highly reliable commercial weather radar; $6.3 million to complete procurement of a Fuel Savings Advisory System to allow more efficient use of fuel; and $3.3 million for various reliability and safety improvements.

The FY 1984 program completes the procurement of the wing replacement modification and continues various reliability and safety improvements initiated in previous years.

C-141 (FY 83 - $33.9 million; FY 84 - $19.2 million). The FY 1983 program provides $2.1 million to complete the procurement of an Improved Flight Recording System; $13.8 million to continue Enhancement of Station Keeping Equipment necessary to provide adequate support to brigade size air drop missions; $5.7 million to continue modifications to provide Secure Voice Capability; $5.2 million to complete procurement of a Mission Simulator Refurbishment program; and $7.1 million for various reliability and safety improvements.

The FY 1984 program continues modifications initiated in previous fiscal years.

T-38 (FY 83 - $8.0 million; FY 84 - $1.8 million). In FY 1983, funds are requested for continuation of a safety modification to improve the Ejection Seat Sequencing system, $5.8 million; other reliability and maintainability improvements, $2.2 million.

The FY 1984 program continues reliability and maintainability improvements initiated in previous years.

T-39 (FY 83 - $8.1 million; FY 84 - $1.3 million). The FY 1983 program initiates a wing reskin modification to extend the service life in the amount of $7.4 million; $.7 million provides for several reliability/maintainability improvements.

The FY 1984 program continues the modifications started in previous fiscal years.

C-130 (FY 83 - $154.8 million; FY 84 - $156.3 million). The FY 1983 program includes: $86.5 million for an outer wing modification to extend the service life; $13.5 million for a safety modification to install Fuel Cell Foam to reduce the possibility of fires; $19.5 million to replace three bladed propellers that have become non-supportable; $4.5 million for Afterbody Strakes to reduce drag and conserve fuel; $13.6 million to provide Secure Voice Capability; $8.5 million to provide a Flight Data Recorder/Cockpit Voice Recorder Capability and improve safety; $1.8 million to initiate an Enhanced Station Keeping Capability; $4.0 million to initiate a deployable crisis management system; and $2.9 million for other safety and reliability improvements.

The FY 1984 program continues modifications initiated in previous fiscal years and also initiates the SEEK TALK anti-jam communications capability and improvements to the Special Operations Force.

C-135 (FY 83 - $613.7 million; FY 84 - $1,309.8 million). The FY 1983 program includes: $490.6 million to continue procurement of re-engining the KC-135 Tankers with the CFM-56 engines; $53.0 million for extension of aircraft service life by reskinning the lower wing surface; a modification to provide a VHF AM/FM Radio Capability for $3.4 million; a Fuel Savings Advisory System in the amount of $32.3 million; $14.1 million to provide 100 kilowatt transmitters to enhance signal output; $13.7 million for Electromagnetic Pulse Hardening and Secure Voice for the specialized EC-135 command and control aircraft; and $6.6 million for various reliability and maintainability improvements to the aircraft and crew trainers.

The FY 1984 program continues funding of modifications initiated in previous fiscal years and also initiates a Diversity Reception Equipment Capability for the EC-135 command and control aircraft.

E-3A (FY 83 - $150.5 million; FY 84 - $193.8 million). The FY 1983 program includes: $126.4 million to continue a communication enhancement modification including the Joint Tactical Distribution System; $17.5 million to continue an Electronic Counter-Counter measures improvement; and $6.6 million to update operational aircraft to a standard configuration compatible with changes being incorporated into aircraft on the production line to improve reliability and maintainability of subsystems.

The FY 1984 program continues the programs begun in prior fiscal years and initiates the SEEK TALK anti-jam communications capability.

E-4B (FY 83 - $7.5 million; FY 84 - $10.4 million). The FY 1983 program provides $4.9 million for Automatic Data Processing Capability and $2.6 million for Service Bulletins and other reliability improvements.

The FY 1984 program continues the modifications initiated in prior fiscal years and initiates an upgrade to the Transverse Electric Antenna and the Diversity Reception Equipment.

H-3 (FY 84 - $3.6 million). In FY 1984, improvements to the Combat Rescue capability are planned as well as several improved reliability and maintainability modifications.

H-53 (FY 84 - $3.1 million). A safety improvement to provide Crashworthy Auxiliary Fuel Tanks is planned for FY 1984.

OV-10 (FY 83 - $3.5 million, FY 84 - $8.6 million). The FY 1983 program provides $3.5 million for initiation of the SEEK TALK anti-jam communications program.

The FY 1984 program continues the SEEK TALK modification.

Other Aircraft (FY 83 - $81.5 million; FY 84 - $97.3 million). In FY 1983, funds are required for follow-on costs of previously initiated modifications as follows: $8.2 million for VINSON Tactical Secure Voice for the AN/ARC-164 UHF Radio; $1.8 million for the Standard Combined Altitude Radar Altimeter (CARA); $22.8 million for a modification to the Radar Warning Receiver Signal Processor (CM442A/ALR46(V)) to provide the capability to identify and locate the latest known enemy threats; $19.7 million to replace HF radios with highly reliable state-of-the-art radios; and $19.3 million for various modifications on a variety of aircraft. Also includes $9.7 million to initiate a Standard Central Air Data Computer to replace the Central Air Data Computers on a variety of aircraft with a digital state-of-the-art computer with significant reliability improvement.

The FY 1984 program continues the modifications initiated in FY 1983 and prior fiscal years, and also initiates a modification to provide a Chemical/Bio Capability with hood blower equipment and replacement of the Navigation Doppler on several helicopters with a reliable state-of-the-art doppler.

Classified Projects (FY 83 - $102.3 million; FY 84 - $152.5 million). These funds are required to provide for the modification of various aircraft and airborne systems used in classified missions, which because of their sensitivity, require the application of special management and security safeguards.

Civil Reserve Air Fleet (CRAF) (FY 84 - $186.7 million). The FY 1984 funds will provide for cargo convertible features to be incorporated into four wide-bodied passenger carrying aircraft being procured by United States commercial air carriers to enhance the strategic airlift capability without increasing the Air Force aircraft inventory.

The table below summarizes fund requirements for Fiscal Years 1982, 1983 and 1984 by aircraft/category:

(In Millions of Dollars)

Aircraft/Category	FY 1982	FY 1983	FY 1984
B-52	$445.1	$554.6	$904.8
FB-111	6.1	-	-
F-106	15.3	-	-
A-7	32.5	41.5	36.7
A-10	57.1	92.3	178.0
F/RF-4	98.0	127.3	282.5
F-5	1.6	3.4	1.9
F-15	46.6	36.2	74.3
F-16	50.0	40.1	77.3
F-111	82.9	96.0	86.2
EF-111	252.7	203.6	-
TR-1	-	2.3	18.8
T/AT-37	-	7.8	4.6
C-5	213.6	231.1	248.5
C-141	66.9	33.9	19.2
T-38	19.1	8.0	1.8
T-39	-	8.1	1.3
C-130	83.6	154.8	156.3
C-135	398.5	613.7	1,309.8
E-3A	26.7	150.5	193.8
E-4	108.0	7.5	10.4
H-3	2.2	-	3.6
HH-53	3.6	-	3.1
OV-10	.1	3.5	8.6
Other Aircraft	45.0	81.5	97.3
Classified Projects	49.9	102.3	152.5
CRAF	-	-	184.7
TOTAL	$2,115.1	$2,600.0	$4,056.0

STATUS OF AIRCRAFT MODIFICATION PROGRAMS

FY 1980 Modification of Aircraft
Programs as of 31 Dec 81
($ in millions)

Program	Appropriated	Reprogrammings 1/	Total Program Value	Total Obligations	Total Expenditures
Budget Activity No. 5					
P-1 No. 17-41	$1,577.7	$-29.1	$1,548.6	$1,389.2	$906.3

1/ Includes -$23.7 million of Congressionally approved reprogrammings and -$5.4 million of below threshold reprogramming

STATUS OF AIRCRAFT MODIFICATION PROGRAMS

FY 1981 Modification of Aircraft
Programs as of 31 Dec 81
($ in million)

Program	Appropriated 1/	Reprogrammings 2/	Total Program Value	Total Obligations	Total Expenditures
Budget Activity No. 5 P-1 No. 30-55	$1,915.9	$-13.7	$1,902.7	$1,468.9	$259.9

1/ FY 81 Budget plus Supplemental
2/ Includes -$22.0 million of Congressionally approved reprogrammings and +$8.3 million of below threshold reprogrammings.

STATUS OF AIRCRAFT MODIFICATION PROGRAMS

FY 1982 Modification of Aircraft
Programs as of 31 Dec 81
($ in millions)

Program	Appropriated	Reprogrammings 1/	Total Program Value	Total Obligations	Total Expenditure
Budget Activity No. 5					
P-1 No. 30-55	$2,106.6	+$85.1	$2,191.7	$869.6	$7.7

1/ Includes +$62.6 million for Congressional changes in the FY 82 Budget and +$22.5 million for redistribution from Spares and Repair Parts funds to support Congressionally directed action in support of the KC-135 JT3D re-engining.

(In Thousands of Dollars)

Program Requirement - FY 84 ...	$5,084,400
Program Requirement - FY 83 ...	3,656,600
Program Requirement - FY 82 ...	3,693,600
Program Requirement - FY 81 ...	2,709,755

ACTIVITY: Aircraft Spares and Repair Parts

PART I PURPOSE AND SCOPE

This activity provides funds for centrally procured and managed, investment type spare components and repair parts for the aircraft being procured, the aircraft in the inventory, the modification and modernization program, related aircraft support equipment, spares for Other Production programs, such as ECM pods, and spares for the increased sortie surge program. Investment type items are defined as reparable assemblies, spares and repair parts which are centrally managed, and most items have a unit cost of $1,000 or more.

PART II JUSTIFICATION OF FUNDS REQUESTED

This activity supports the procurement of investment initial spares, for which the funds must be programmed in FYs 1983 and 1984 to provide support for new production aircraft, common ground support equipment, the aircraft modification program, Other Production programs and the increased sortie surge program. Replenishment, or follow-on, spares and repair parts funds must also be committed and obligated for those items required for the 1984 and 1985 flying hour programs (procurement lead time away - that is, funds are programmed one to two years ahead of the flying hour program, depending upon component production leadtime).

The following table compares fiscal years in the various spare and repair parts categories:

(In Millions of Dollars)

	FY 1981	FY 1982	FY 1983	FY 1984
Initial Weapon System Spares	$399.9	$539.2	$648.0	$1,353.5
Initial Modification Spares	108.5	103.2	284.8	335.2
Initial Common GSE Spares	10.3	14.4	14.3	19.5
Initial Other Production Spares	1.5	25.5	36.2	5.2
Initial Sortie Surge	-	-	-	55.6
Total Initial Spares	$520.2	$682.3	$983.3	$1,769.0
Replenishment Spares	2,189.6	3,211.3	2,673.3	3,315.4
Total Spares and Repair Parts	$2,709.8	$3,893.6	$3,656.6	$5,084.4

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Included in this combined initial/replenishment spares program are spare engines and those recoverable/replacement type items which are normally repaired and returned to stock. The basic determinant of the spares level required for an item is the time it will operate before it must be removed and repaired. This capability is Mean Time Between Demand (MTBD) and is expressed in operating hours. The MTBD of an item is applied to the operating program of the weapon system to determine how many reparables will be generated during the period. From this, required pipeline quantities, base stock, depot stocks, and attrition replacements are determined. Maximum consideration is given to improved management actions, faster repair, air transportation, and selective management of high cost items. The buy requirements are intensively reviewed semiannually by an Air Force management review team.

The initial spares request is $983.3 million in FY 1983 and contains spare engines and those new recoverable/replacement type items required for initial support of aircraft being procured and aircraft modification programs. The FY 1983 program includes spares for the B-1B, A-10, F-5, F-15, F-16, KC-10, E-3, C-5N, European Distribution System Aircraft and TR-1 aircraft. The FY 1983 replenishment spares program request is $2,673.3 million and supports peacetime operating stock requirements in the amount of $2,173 million and includes War Reserve Materiel (WRM) spares for new aircraft being added to the inventory and for reduction of WRM deficits in the amount of $500.3 million. A detailed discussion of War Reserve computation assumptions and methodology follows:

WAR RESERVE - SECONDARY ITEMS

($ Millions)

Aircraft Replenishment Spares	FY 1981	FY 1982	FY 1983	FY 1984
Requirement	$4,912.9	$5,501.0	$5,960.2	$6,954.8
Applicable Assets Applied	2,619.1	3,383.5	4,414.5	5,219.5
Funding Requested	757.0	1,114.6	500.3	942.4

Planning Assumptions: The planning assumptions used for computing aircraft replenishment spares War Reserve Materiel (WRM) requirements are contained in the DOD Defense Guidance (DG). The DG provides guidance regarding the length of the wartime scenarios; the gross force size (number of aircraft wings); the number of days of WRM to be funded; and other general guidance relative to the logistics area for which WRM requirements are computed.

Computation Methodology: WRM requirements are additive to peacetime needs, and are computed by a mechanized system for those items that are required for wartime usage, safety, and deemed mission essential. The WRM requirements consist of two segments as follows:

1. Prepositioned segment consists of:

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a. War Readiness Spares Kits (WRSK) are air transportable packages of spares that will support specific units tasked to be deployed during the first 30 days of a war or contingency until resupply can be established. The basic configuration of a WRSK is determined by the maintenance concept to be used, i.e., Remove and Replace (RR) an item as opposed to Remove, Repair, and Replace (RRR) the item. The WRSK are configured to include both the RR and RRR maintenance concepts. Since base level repair shops may not be available at the deployed site, support for the first few days is based on RR and the balance of the support is based on RRR. The using major command and the Air Force Logistics Command (AFLC) determine those essential items to be included in the WRSK, which is only a small portion of the total number of items used on a day-to-day basis in peacetime. The quantity of items to be included in the WRSK are computed using factors such as item failure rates, number of items per aircraft, the flying hour program to be supported, base repair time, item pipeline time, and available assets.

b. Base Level Self-Sufficiency Spares (BLSS) are spares designed to augment existing peacetime assets to support the initial increased wartime activity for specific units that will fight the war in place. BLSS requirements consider the same factors as those used in the WRSK computation. These requirements reflect the number of items required to support the base repair cycle, fill the pipeline to the depot for those items the base cannot repair, and provide a safety level to cover random demands. Those units which are authorized a WRSK are not authorized a BLSS.

2. Other War Reserve Materiel (OWRM) are spares required to sustain the force at wartime levels after the prepositioned assets are used and until the production base can be expanded to satisfy wartime consumption. OWRM requirements are also jointly reviewed by the using major command and AFLC to ensure only combat essential items are procured. The resulting OWRM requirements are then reduced by assets available from production, peacetime levels and WRSK and BLSS levels. OWRM assets are stored in the AFLC depots.

Changes in requirements and funding levels are caused by many factors such as new aircraft activations; changes in item failure rates; increased wartime flying hour programs; modification of existing aircraft to increase wartime capability and increased cost of items (inflation). The increase in the spares WRM requirements are driven primarily by new aircraft activations, increased wartime flying hour programs (sortie surge for tactical fighters) and inflation. Due to limited resources, Air Force funding priority supports peacetime needs first and then WPM requirements. Priority support of peacetime needs is essential to ensure the force is trained and the aircraft are maintained in an operational condition in order to meet wartime taskings. The FY 83 war reserve funding level of $500.3 million fully funds known Air Force prepositioned WRM requirements (WRSK/BLSS) and partially funds airlift OWRM requirements. This funding continues to reflect improved combat sustainability and the Air Force's commitment to improve wartime readiness.

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Aircraft initial spares requirements by weapon system and fiscal year are listed below:

*AIRCRAFT INITIAL SPARES (DOLLARS IN MILLIONS)

	FY 1983		FY 1984	
	No. of Acft Procured	$	No. of Acft Procured	$
B-1B	(7)	165.4	(10)	801.3
A-10	(20)	3.4	(-)	-
F-5	(3)	.8	(5)	.1
F-15	(42)	80.1	(60)	105.4
F-16	(120)	267.2	(120)	116.7
KC-10A	(8)	39.0	(8)	40.0
MC-130H	(-)	-	(2)	6.2
E-3A	(2)	10.4	(1)	20.0
C-5B	(2)	60.0	(10)	221.5
European Distribution Acft	(2)	1.5	(16)	3.2
C-140B	(-)	-	(2)	2.6
H/HH-60D	(-)	-	(4)	11.5
TR-1	(4)	20.2	(5)	25.0
Modification Spares		284.8		335.2
Common GSE Spares		14.3		19.5
Other Production Charges Spares		36.2		5.2
Sortie Surge Spares		-		55.6
TOTAL		983.3		1769.0

*The aircraft initial spares requirements for each fiscal year are computed against the aircraft delivery schedules. Upon the determination of the requirement for each fiscal year's delivered aircraft, minimum essential financing is allocated to each fiscal year to provide adequate funding for item lead time protection.

AIR FORCE
AIRCRAFT REPLENISHMENT SPARES
($ IN MILLIONS)
FY 83

WEAPON SYSTEM	PEACETIME TOTAL RQMT	PEACETIME FUNDING	WRSK-BLSS TOTAL RQMT	WRSK-BLSS FUNDING	OWRM TOTAL RQMT	OWRM FUNDING
A-7	29.4	29.4	7.7	7.7	15.1	0.0
A-10	57.8	57.8	4.8	4.8	26.4	0.0
B-52	83.2	83.2	80.0	80.0	55.9	0.0
FB-111	17.0	17.0	0.0	0.0	4.5	0.0
EF-111	29.0	29.0	93.7	93.7	10.9	0.0
F-111	327.2	327.2	48.0	48.0	158.4	0.0
C-5	112.8	112.8	0.0	0.0	58.8	12.6
C-130	66.4	66.4	1.2	1.2	59.1	12.5
C-135	116.7	116.7	2.6	2.6	56.3	0.0
C-141	24.7	24.7	0.3	0.3	28.2	12.8
E-3	39.5	39.5	0.0	0.0	10.5	0.0
F-4	143.3	143.3	17.0	17.0	84.8	0.0
F-5	13.9	13.9	0.0	0.0	1.0	0.0
F-15	154.7	154.7	24.8	24.8	61.4	0.0
F-16	59.8	59.8	65.4	65.4	13.6	0.0
F-106	7.2	7.2	0.0	0.0	0.9	0.0
H-3	2.9	2.9	0.0	0.0	1.4	0.0
H-53	2.6	2.6	0.0	0.0	9.0	0.0
T-37	5.9	5.9	0.0	0.0	1.5	0.0
T-38	29.7	29.7	0.0	0.0	0.5	0.0
F100 Engine	260.4	260.4	0.0	0.0	85.3	0.0
Common Parts	707.4	707.4	51.7	51.7	379.7	47.2
Other Acft	31.5	31.5	1.1	1.1	24.0	16.9
TOTAL	2,323.0*	2,323.0*	398.3	398.3	1,147.4	102.9

Total Requirement = 3,868.7*
Total Funding = 2,823.3*
Total Unfunded = 1,045.4

*Includes $150M of replenishment authority

AIR FORCE
AIRCRAFT REPLENISHMENT SPARES
($ IN MILLIONS)
FY 84

WEAPON SYSTEM	PEACETIME TOTAL RQMT	PEACETIME FUNDING	WRSK-BLSS TOTAL RQMT	WRSK-BLSS FUNDING	OWRM TOTAL RQMT	OWRM FUNDING
A-7	18.6	18.6	2.8	2.8	16.1	0.0
A-10	57.2	57.2	15.4	15.4	28.0	10.6
B-52	130.8	130.8	60.0	60.0	59.4	0.0
FB-111	18.4	18.4	0.0	0.0	4.8	0.0
EF-111	30.9	30.9	65.0	65.0	11.6	0.0
F-111	273.2	273.2	6.4	6.4	169.3	0.0
C-5	142.0	142.0	158.6	158.6	72.4	23.3
C-130	68.7	68.7	4.9	4.9	49.5	30.0
C-135	131.6	131.6	1.1	1.1	59.8	45.0
C-141	32.5	32.5	1.2	1.2	31.3	15.0
E-3	41.8	41.8	1.3	1.3	11.2	0.0
F-4	151.6	151.6	70.9	70.9	91.2	0.0
F-5	8.5	8.5	0.0	0.0	1.1	0.0
F-15	161.9	161.9	59.8	59.8	65.2	60.4
F-16	73.8	73.8	117.0	117.0	14.5	14.1
F-106	7.2	7.2	0.0	0.0	0.0	0.0
H-3	3.2	3.2	0.0	0.0	1.5	0.0
H-53	2.9	2.9	0.0	0.0	9.5	0.0
T-37	6.5	6.5	0.0	0.0	1.6	0.0
T-38	32.5	32.5	0.0	0.0	0.5	0.0
F100 Engine	303.7	303.7	0.0	0.0	90.5	65.0
Common Parts	648.6	648.6	0.0	0.0	353.1	91.6
Other Acft	27.2	27.2	2.6	2.6	26.2	20.4
TOTAL	2,373.0	2,373.0	567.0	567.0	1,168.3	375.4

Total Requirement = 4,108.3
Total Funding = 3,315.4
Total Unfunded = 792.9

(in Thousands of Dollars)

Program Requirement - FY 82 ... $5,000

FY 1982 Supplemental

ACTIVITY: Aircraft Spares and Repair Parts

JUSTIFICATION OF FUNDS REQUESTED

$5.0 million is required for initial weapon systems spares to support the two additional KC-10 aircraft also requested in the FY 82 Supplemental.

(In Thousands of Dollars)

Program Requirement - FY 84 ...	$2,360,400
Program Requirement - FY 83 ...	1,767,400
Program Requirement - FY 82 ...	2,019,298
Program Requirement - FY 81 ...	1,502,468

ACTIVITY: Aircraft Support Equipment and Facilities

PART I PURPOSE AND SCOPE

This activity provides for support equipment required to service and test aircraft and their components; for industrial machinery, equipment and facilities required in the manufacture of items funded by this appropriation; for those war consumable items required to be on hand for immediate use in the event of war; and for other charges such as electronic countermeasure equipment. The activity also provides for procurement of flight simulation equipment for aircraft that are no longer in production, and for programs not associated with one specific weapon system.

PART II JUSTIFICATION OF FUNDS REQUESTED

The estimate for this activity is comprised of the following items: (In Millions of Dollars)

LINE ITEM	FY 1981	FY 1982	FY 1983	FY 1984
Common Ground Equipment	$252.2	$403.7	$332.6	$439.3
Industrial Responsiveness	60.6	93.3	147.4	157.1
War Consumables	6.9	83.8	140.8	212.8
Other Production Charges	800.7	1094.2	960.5	1442.4
NATO AWACS	382.0	344.3	106.1	108.8
ACTIVITY TOTALS	$1,502.5	$2,019.3	$1,767.4	$2,360.4

Common Ground Equipment

This program is for the procurement of organizational, base and depot level support equipment, both common and peculiar, for out-of-production aircraft and for common support equipment for new aircraft entering the inventory. The equipment is used on the flight line, in maintenance shops, and in the depots. The program also provides for the procurement of flight simulators and other training devices for aircraft that are out of production. Support equipment includes depot plant equipment, support equipment for modifications, common training equipment and the following federal supply groups (FSG):

FSG 17 - Aircraft launching, landing, and ground handling equipment (trailers, platforms, slings).

FSG 49 - Maintenance and repair shop equipment (test stands, jigs, fixtures, noise suppressors).

FSG 61 - Electric wire and power distribution equipment (generators and generator sets, converters).

FSG 66 - Instrument and laboratory equipment (navigational and flight instruments, electrical and electronic measuring and testing equipment).

Other Federal Supply Groups - Pumps, compressors, air-conditioners, heaters, gauges, and specialized tools.

The following table shows a comparison, by year, by category, of support equipment:

(In Millions of Dollars)

NOMENCLATURE	FY 1981	FY 1982	FY 1983	FY 1984
FSG 17	$ 36.9	$ 40.9	$ 60.5	$ 72.8
FSG 49	27.6	113.6	153.1	181.4
FSG 61	31.5	46.3	43.4	75.5
FSG 66	30.7	36.9	36.5	63.0
Other FSGs	3.2	50.6	34.2	43.0
Depot Plant Equipment	19.2	18.5	4.9	.7
Common Training Equipment (Simulators)*	103.1	96.9	-	2.9
TOTAL COMMON GROUND EQUIPMENT	$252.2	$403.7	$332.6	$439.3

*FY 84 Common Training Equipment includes simulators for the C-5 and C-141 aircraft.

Industrial Responsiveness

The Industrial Responsiveness program provides for capital type rehabilitation of real property at Air Force owned industrial facilities; finances preparation for shipment of government production equipment to the Defense Industrial Plant Equipment Center or to other priority Air Force users; provides funds for actions necessary to bring Air Force plants into compliance with noise, air and water antipollution standards and to permit the reduction of energy consumption; and provides funds for the Air Force industrial base planning activities. Funds are also provided for the Manufacturing Technology program which provides new manufacturing methods, processes, and techniques in a timely manner to support current and projected Air Force programs and for the Industrial Productivity and Responsiveness Improvement program which performs industrial base technology modernizations.

The following table shows a comparison, by year, of the Industrial Responsiveness Program.

(In Millions of Dollars)

	FY 1981	FY 1982	FY 1983	FY 1984
Expansions	4.8	17.1	32.8	3.6
Packing, Crating & Handling	.1	.3	.1	.1
Capital Type Rehabilitation	9.9	13.3	24.7	11.1
Manufacturing Technology	36.9	58.2	41.7	37.5
Industrial Base Planning	-	-	4.8	3.5
Environmental Protection	.2	1.5	21.9	20.7
Industrial Productivity and Respons. Imp.	-	-	17.2	76.3
Energy Conservation	8.3	2.9	4.2	4.3
Modernization	.4			
TOTAL Industrial Responsiveness	60.6	93.3	147.4	157.1

The requirements for FY 1983 in each category in the above table are as follows:

Expansions: Required for real property modifications at Air Force Plant 3, Tulsa, OK; Air Force Plant 4, Fort Worth, TX; and Air Force Plant 42, Palmdale, CA.

Packing, Crating, and Handling: Required to prepare idle government-owned equipment for shipment to other locations.

Capital Type Rehabilitation: Required for rehabilitation of government-owned, contractor-operated industrial production facilities. Included are Capital Type Rehabilitation projects for property operated by General Dynamics, Fort Worth, TX; Rockwell International, Tulsa, OK, Palmdale, CA, & Columbus, OH; Lockheed-Georgia, Marietta, GA, McDonnell Douglas, Tulsa, OK; and others.

Manufacturing Technology: Required for the establishment, validation, demonstration, and transition to the factory floor of new or significantly improved manufacturing methods which are based upon the results of RDT&E and IR&D programs and which are beyond the current state of the art. Directly improves the productivity of the U.S. industrial base required to produce and maintain Air Force systems by providing new manufacturing technologies that have been validated and demonstrated in a production environment. Establishes a systematic approach to production and manufacturing throughout the aerospace industry and assures a high return on investment by timely availability of results for the whole industry, as well as directly reducing the acquisition and maintenance costs of Air Force systems for which appropriate technologies have been implemented. All projects are conducted under contract with private industry, mostly by competitive procurement, with results widely disseminated throughout the industry. All capital investments necessary for implementation are borne by industry, and projects are negotiated with an Air Force business strategy aimed at securing all data rights, committed to establishing competitive production sources, and requiring an open end-of-contract demonstration of results achieved. The FY 83 program contains efforts in the Industrial Generic Technology, Repair and Remanufacture Technology Quality Technology, and Long Range Integrating Technology catagories. Major thrust areas include Critical/Strategic Materials ($.7M), Metallic Airframe Fabrication ($1M), Composite Airframe Fabrication ($2.6M), Propulsion Systems Production and Productivity ($3.9M), Airborne Electronic Components Manufacturing ($.9M), Flexible Automated Batch Manufacturing ($5.0M), Depot Maintenance and Repair Productivity ($8.8M), Reprocured Items Manufacture and Productivity ($.6M), Integrating Technologies for Manufacturing Operations Control and Automation ($12.9M), and Validation and Demonstration of Integrated Computer Aided Manufacturing ($5.5M).

Industrial Base Planning: Will develop strategic planning (overall guidance) and tactical (implementation) planning to improve the productivity, capacity, and capability of the industrial base (both private industry and Air Logistics Centers) for the short, mid, and long terms. Will integrate the sub-elements of the Air Force Industrial Responsiveness program to provide a comprehensive and cohesive approach to improving the industrial base.

Environmental Protection: Required for atmospheric, water, and hazardous material antipollution projects at Air Force Plant 3, Tulsa, OK; Air Force Plant 63, North Grafton, MA; Air Force Plant 4, Fort Worth, TX; DoD Plant 303, Columbus, OH; and others.

Industrial Productivity and Responsiveness Improvement: Funds Technology Modernizations (Tech Mods) for the industrial base. Tech Mods link, through acquisition programs, government investments in manufacturing methods and technologies with private industry investments for capitalization and modernization to improve the productivity, capability, and capacity of the industrial base. Will fund efforts at the Boeing Military Airplane Company, at Lockheed-Georgia & AVCO, at Pratt & Whitney Aircraft Company, at Westinghouse, and at F-16 Subcontractors.

Energy Conservation: Required for high return on investment projects at facilities such as Air Force Plant 28, Everett, MA; Air Force Plant 59, Binghamton, NY; Air Force Plant 6, Marietta, GA; Air Force Plant 4, Fort Worth, TX: and Air Force Plant 3, Tulsa, OK.

Modernization: Required for updating plant equipment.

1 COMPONENT	FY 1983 FACILITIES PROJECT DATA	2 DATE
Air Force		31 Aug 81

3 INSTALLATION AND LOCATION	4. PROJECT TITLE
AF Plant 03 McDonnell Douglas Corp Tulsa Oklahoma	Environmental-MPC 7000

5 PROGRAM ELEMENT	6 CATEGORY CODE	7. PROJECT NUMBER	8 PROJECT COST ($000)
78011F	831-155		3000.0

9 COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Industrial Waste Treatment Facility	LS			3000.0

10 DESCRIPTION OF PROPOSED CONSTRUCTION

The proposed work is for Phase II of the rehabilitation of the industrial waste treatment plant (IWTP) in accordance with A&E plans and specifications provided for in Phase I (1982) of this program. The IWTP in its present condition was designed to handle waste problems of the 1950's; therefore, the IWTP needs to be brought up to date to comply with current regulations. This phase also includes A&E services for designs, plans and specifications to accomplish Phases II, III and IV of the rehabilitation of the IWTP.

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1 COMPONENT	FY 1983 FACILITIES PROJECT DATA	2 DATE
Air Force		31 Aug 81

3 INSTALLATION AND LOCATION	4. PROJECT TITLE
McDonnell Dourglas Corporation AFP 3 Tulsa OK	Environmental MPC-7000

5 PROGRAM ELEMENT	6 CATEGORY CODE	7 PROJECT NUMBER	8 PROJECT COST ($000)
78011F	442-253		189.0

9 COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Drum Storage Area for Hazardous Material	LS			189.0

10 DESCRIPTION OF PROPOSED CONSTRUCTION

The proposed drum storage area will consist of a concrete slab bordered with an 18" curb. The entire area will be covered with a roofing system consisting of a pre-engineered building. The open sides will be enclosed with a chain link fence. The floor will be equipped with drains that provided to allow placement of the drums directly to the truck and reduce handling and possible damage as a result of excessive handling. The building will be equipped with a deluge fire protection system, water, minimum lighting and telephone service. This will be a joint use facility for McDonnell Douglas and Rockwell International. Separate facilities will be provided using a wall or partition so contractor responsibility can be easily determined when spills occur.

1 COMPONENT	FY 1983	FACILITY PROJECT DATA	2 DATE
AIR FORCE			Jan 1982

3 INSTALLATION AND LOCATION	4 PROJECT TITLE
Air Force Plant #3, Tulsa, OK Rockwell International	B-1B Production Facility Expansion MPC-1000

5 PROGRAM ELEMENT	6 CATEGORY CODE	7 PROJECT NUMBER	8 PROJECT COST ($000)
78011F	221-229	---	420

9 COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Radar Absorption Material (RAM) Application Facility	LS			420

10 DESCRIPTION OF PROPOSED CONSTRUCTION

Expand the Radar Absorption Material Application Facility by 7,000 sq. ft. in the East Bay, Building 1. The RAM Application Room shall be constructed to meet the requirements of Rockwell International specifications TA0108-006 and TA0108-00[illegible]

Project cost include Architect/Engineering services.

JUSTIFICATION:

This B-1B Radar Absorption Material Application Facility expansion is essential to support the 4 aircraft per month production schedule.

The need requirement for this B-1B RAM Facility is December 1983.

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[illegible]

1 COMPONENT	FY 1983	FACILITY PROJECT DATA	2 DATE
AIR FORCE			Jan 1982

3 INSTALLATION AND LOCATION	4 PROJECT TITLE
Air Force Plant #3, Tulsa, OK Rockwell International	B-1B Production Facility Expansion MPC-1000

5 PROGRAM ELEMENT	6 CATEGORY CODE	7 PROJECT NUMBER	8 PROJECT COST ($000)
78011F	221-229		500

9 COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Expand Detailed Paint Facility	LS			500

10 DESCRIPTION OF PROPOSED CONSTRUCTION

Expand the Detailed Paint Facility to include, monorail handling system, automated spraying equipment, overhead drying oven capability, renovation of existing paint booths, and capability for dip coating methods and proper ventilation. Project cost include Architect/Engineering services.

JUSTIFICATION:

This B-1B Detailed Paint Facility expansion is essential to support 4 aircraft per month. rate scheduled. The Paint Facility will support the B-1B detail small parts painting for Air Force Plant #3.

The need requirement for this B-1B Paint Facility is July 1983.

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1 COMPONENT	FY 1983 FACILITIES PROJECT DATA	2 DATE
Air Force		31 Aug 81

3 INSTALLATION AND LOCATION	4. PROJECT TITLE
AFP 4, General Dynamics Fort Worth TX	Environmental MPC-7000

5 PROGRAM ELEMENT	6 CATEGORY CODE	7. PROJECT NUMBER	8 PROJECT COST ($000)
78011F	832-255		5000.0

9 COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Hazardous Waste Management System	LS			5000.0

10 DESCRIPTION OF PROPOSED CONSTRUCTION

The existing Industrial Waste Collection System (WICS) requires modification to gather all industrial wastes for pretreatment. The major item required is a lift station to collect and move untreated wastes from the current discharge point to the Industrial Waste Treatment System. The lift station will consist of a sump, two pumps and a pipeline from the southeast corner of the plant site to the south end of Building 181.

Other items include a new pipeline to the Battery Room in the Garage (Bldg. 12) to collect lead wastes, a new pipeline to Building 176 to collect paint wastes and a pipeline to the Integrated Circuits Lab in Building 1. Pipelines to the Detail Parts and Component Paint Facilities are also required.

Other items of construction include: installation of an Industrial Waste Effluent Monitor System, new equipment to update the IWTS, construction of a sludge handling system, construct segregation and salvage area for waste Hydrocarbons, install incinerator.

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1 COMPONENT	FY 1983	FACILITY PROJECT DATA	2 DATE
AIR FORCE			8 Jul 81

3 INSTALLATION AND LOCATION	4 PROJECT TITLE
AF Plant #4, Fort Worth TX General Dynamics	Expansion - MPC 1000

5 PROGRAM ELEMENT	6 CATEGORY CODE	7 PROJECT NUMBER	8 PROJECT COST ($000)
78011F	221-221		252.0

9 COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Engineering Simulator Facility (Bldg 125) PH I of IV	LS			252.0

10 DESCRIPTION OF PROPOSED CONSTRUCTION

Provides for expansion of environmentally controlled space and utilities for new computer systems, peripheral equipment and support personnel in the Engineering Simulator Facility, Bldg 125, Air Force Plant 4, Ft Worth Texas.

Justification

Rapidly expanding engineering simulator use to support the current F-16 production. F-16 AFTI and F-16XL programs has generated the requirement for new simulter computer systems. This project will provide the additional space by enclosing and facilitizing a portion of the open bay area and by addition of 750 scuare feet of mezzanine floor in Bldg 125. High pressure cooling air will be required for the computers and avionics involved in the additional simulation programs. A false ceiling will be required in the expanded areas to assist in maintaining proper environmental control for operation of the total simulation system. The added equipment will increase the electrical loads to the point that new transformers may be required. This project will require the installation of a 45KVA, 50Hz generator and distribution system. This is the first phase of a four phase development of the Engineering Simulator Facility which is required to provide engineering simulation data in support of current production, on-going research and development and future programs.

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1 COMPONENT	FY 1983 FACILITY -- PROJECT DATA	2 DATE
AIR FORCE		JAN 1982

3 INSTALLATION AND LOCATION	4 PROJECT TITLE
Air Force Plant 42, Palmdale, CA Site 3 North American Aircraft - Rockwell Int'l	B-1B PRODUCTION FACILITY EXPANSION MPC-1000

5 PROGRAM ELEMENT	6 CATEGORY CODE	7 PROJECT NUMBER	8 PROJECT COST ($000)
78011F	221-221		$170

9 COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Construct Proof Load Facility -	EA	1		170

10 DESCRIPTION OF PROPOSED CONSTRUCTION

Construct a hydraulic proof load facility consisting of concrete pad with tie down attachment overhead hoist arrangement with the capability of testing proof loading to 50,000 lbs

Project costs include architect-engineer services.

JUSTIFICATION:

A proof load facility is required at the Palmdale facility to support the B-1B Production Program. Present proof load facilities located at Los Angeles are not adequate to support the number and size of the equipment to be proof loaded for Palmdale. The turnaround time for equipment sent to Los Angeles ranges from one to three weeks and this excessive time will not support the manufacturing schedule.

The proposed proof load facility at Palmdale will be capable of proof loading all equipment now in use or proposed for the production program. Side pulls and angle pulls can all be accomplished as well as multiple pulls. Thus, accomplishing in one setup what requires several setups at the existing proof load facility to complete.

Under the production plan, approximately 146 items will require proof loading at 26-week intervals or twice each year. Because of the high usage of the equipment, all of the items except the general purpose and tooling slings will require special setup arrangements on the proof load pad. It is estimated that from 6 to 24 hours for each of the 96 special pieces of equipment or an average of 10 hours each will be required for a total of 1920 a year. The remaining general purpose slings will require about 1 hour each or 100 hours a year.

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1 COMPONENT	FY 1983 FACILITY - PROJECT DATA	2 DATE
AIR FORCE		JAN 1982

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
Air Force Plant 42, Palmdale, CA Site 1. North American Aircraft - Rockwell Int'l	B-1B PRODUCTION FACILITY EXPANSION MOC-1000

5. PROGRAM ELEMENT	6 CATEGORY CODE	7 PROJECT NUMBER	8 PROJECT COST ($000)
78011F	116-945		$1,069

9 COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Install New Blastwalls, Remove/Relocate Existing Blastwalls	LS			$1,069

10 DESCRIPTION OF PROPOSED CONSTRUCTION

Remove 300 linear feet of the westerly concrete blastwall. Remove 430 linear feet of the north concrete blastwall. Dismantle and relocate 600 linear feet of the easterly concrete "A" frame blastwall and appurtenances, including ramp toilet facilities, miscellaneous piping, and electrical. Install new metal blast deflector fence, complete with concrete foundation, at each of two stations, 100 linear feet at each station at the westerly engine run stations. Project costs include architect-engineer services.

JUSTIFICATION:

The existing easterly concrete "A" frame blastwalls are capable of withstanding loads imposed by aircraft only when the engines are at least 100 feet from the wall. Ramp area space limitations prevent utilization of blastwalls in their present locations. Relocation of the easterly concrete "A" frame blastwall will provide adequate blast deflection along with shelter and protection for ramp personnel during adverse weather conditions. Toilet facilities and storage capability for ramp support equipment are also available in this "A" frame blastwall structure. Removal of the westerly concrete blastwall and installation of new blast deflector fence at two aircraft stations will allow necessary space for ramp checkout and preflight operations. Removal of the north concrete blastwall will provide the necessary space for checkout and preflight operations. Removal of the north concrete blastwall will provide the necessary space for aircraft to ingress and egress the north end of Building 295 plus this will allow two outdoor retrofit stations.

1 COMPONENT	FY 19 83 FACILITY .. PROJECT DATA	2 DATE
AIR FORCE		JAN 1982

3 INSTALLATION AND LOCATION	4. PROJECT TITLE
Air Force Plant 42, Palmdale, CA Site 1 North American Aircraft - Rockwell Int'l	B-1B---PRODUCTION FACILITY--- EXPANSION MPC-1000

5. PROGRAM ELEMENT	6 CATEGORY CODE	7 PROJECT NUMBER	8 PROJECT COST ($000)
78011F	113-321		$1,191

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Additional Concrete Ramp Paving	SF	193,000		1,070
Additional Asphalt Ramp Paving	SF	72,000		111
Wider Access Gate	LS			10

10 DESCRIPTION OF PROPOSED CONSTRUCTION

Install the following new concrete ramp surfaces at Site 1. Concrete to be approximately 12 inches thick.

45,000 square feet between east and west ramp
83,000 square feet north of Building 293
28,000 square feet at east blastwall
20,000 square feet at west blastwall
17,000 square feet at north blastwall area.

Install the following new asphalt-concrete surfaces at Site 1. Asphaltic concrete to be approximately 4 inches thick on a compacted subsurfaces.

46,000 square feet behind the westerly blastwall
26,000 square feet behind the easterly blastwall
Project costs include architect-engineer services.

JUSTIFICATION:

The baseline production plan utilizes Site 1 for ramp and preflight operations. Present configuration of the Site 1 concrete ramp area does not allow access from easterly blastwall stations to Building 295 inside the fence line. Present ramp configuration would require each aircraft to egress the fenced area to the taxiway and then ingress at the other entrance which requires an additional 1,200 feet of travel per trip. Each aircraft will travel this route a minimum of three times.

An additional (1) 45,150 square feet of 12" concrete ramp area is required to join the east and west ramps and will provide ready access inside the fence of Site 1.

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PAGE NO

1. COMPONENT	FY- 19 83	FACILITY PROJECT DATA	2. DATE
AIR FORCE			JAN 1982

3. INSTALLATION AND LOCATION
Air Force Plant 42, Palmdale, CA Site 1.
North American Aircraft - Rockwell International

4. PROJECT TITLE	5. PROJECT NUMBER
B-1B PRODUCTION FACILITY EXPANSION MPC-1000	

JUSTIFICATION (continued)

Time loss during peak production, reduced travel and handling and elimination of potential interference with taxiway traffic are some of the benefits to be derived from this project.

The new westerly blastwall will be set back 75 feet from the edge of the existing concrete ramp to allow adequate area to maneuver aircraft into position. This set back will require 20,000 square feet of concrete which initiates the need to provide an asphaltic paved area (46,000 square feet) in back of the blastwall to reduce blowing of dust, sand and debris from engine exhaust and to allow work access behind blastwall areas.

83,000 square feet of ramp area will be required around the avionics offensive and defensive systems operations north of Building 293. This added area will provide access around the two aircraft stations for standard maintenance work platforms.

The east blastwall will be relocated 30 feet from the edge of the existing concrete ramp to allow adequate area to maneuver aircraft along east ramp and provide an engine operational distance of 100 feet between aircraft and blastwall, 28,000 square feet of concrete. An area behind blastwall of 25 feet wide will require asphaltic paving (26,000 square feet).

Extension of ramp area north of Building 295 will require 17,000 square feet of concrete to allow adequate setback for retrofit area and movement of aircraft out of Building 295 north end.

The site access gate must be widened to 150' to provied wing clearance for B-1B aircraft.

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1 COMPONENT	FY 1983 FACILITY .. PROJECT DATA	2 DATE
AIR FORCE		JAN 1982

3 INSTALLATION AND LOCATION	4. PROJECT TITLE
Air Force Plant 42, Palmdale, CA North American Aircraft - Rockwell Int'l	B-1B PRODUCTION FACILITY EXPANSION MPC-1000

5. PROGRAM ELEMENT	6 CATEGORY CODE	7 PROJECT NUMBER	8 PROJECT COST ($000)
78011F	121-122		$619

9 COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Upgrade and Expand Fuel Storage Facility, Site 1	LS			619

10 DESCRIPTION OF PROPOSED CONSTRUCTION

Provide and install one 50,000 gallon underground fuel storage tank and connect to the existing 100,000 gallon fuel tank with required valving and piping. Install supply and defuel lines to four flush-mounted hydrants at easterly engine-run stations. Provide control panels, reels, hoses and defuel attachments.

Project costs include Architect/Engineer services.

JUSTIFICATION

Essential to support the proposed production of four B-1B per month. The proposed expansion of one 50,000 gallon fuel storage tank and associated fuel/defuel distribution is required for adequate fueling capacity for aircraft engine-run and flight test operations.

Each B-1B will require 70,000 gallons of fuel per week for ramp operations under normal operating procedures and schedules. This quantity is based upon projected delivery of the aircraft after two flights. A third flight would require an additional 20,000 to 25,000 gallons of fuel. Should any ramp operations need to be repeated, additional fuel will be required.

There is no known direct environmental impact as a result of this industrial facilities construction project. This expansion will, however, create beneficial environmental effects in that it will eliminate the requirement for fuel transfers between commercial and Air Force delivery trucks and will reduce tanker traffic and fuel handling.

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1 COMPONENT	FY 1983 FACILITY -- PROJECT DATA	2 DATE
AIR FORCE		JAN 1982

3 INSTALLATION AND LOCATION	4 PROJECT TITLE
Air Force Plant 42, Palmdale, CA Site 1 North American Aircraft - Rockwell Int'l	B-1B PRODUCTION FACILITY EXPANSION MPC-1000

5. PROGRAM ELEMENT	6 CATEGORY CODE	7 PROJECT NUMBER	8 PROJECT COST ($000)
78011F	813-231		$233

9 COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Primary Electrical Power, 480V Flight Operations, Site 1	LS			233

10. DESCRIPTION OF PROPOSED CONSTRUCTION

Provide and install necessary switchgear, circuit breakers, and metering section for one Southern California Edison Company furnished 1500 KVA substation at Bldg. 295, and one Southern California Edison Company furnished 3750 KVA replacement transformer at ramp area. Provide concrete pads, fencing and grounding system. Project cost includes architect-engineer services.

JUSTIFICATION:

B-1B Production flight/ramp operations at Site 1 will require additional 480 volt electrical power. The added power will be required for both Bldg. 295 activity and ramp operations. Distribution of this power is not included in this project, but is a part of ramp utilities.

Power requirements for seven ramp stations, minimum requirements under ideal production schedule conditions, are similar to those for Site 3, final assembly and checkout stations. Ramp stations include offensive avionics checkout, defensive avionics checkout, four (4) flight operations stations, and one (1) aircraft delivery station.

This project replaces the existing 300 KVA Edison Company service at the east ramp with 3750 KVA substation anf requires a 1500 KVA in addition to the existing 1000 KVA substation at Bldg. 295.

Hydraullic and electrical ground power units (GPU) plus cooling air will be the bulk of the load for ramp operations.

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1 COMPONENT	FY 1983 FACILITY PROJECT DATA	2 DATE
AIR FORCE		JAN 1982

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
Air Force Plant 42, Palmdale, CA North American Aircraft - Rockwell Int'l	B-1B PRODUCTION FACILITY EXPANSION MPC-1000

5. PROGRAM ELEMENT	6 CATEGORY CODE	7 PROJECT NUMBER	8 PROJECT COST ($000)
78011F	812-921		$64S

9 COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Ramp Utilities, North and East Building 295, Site 1	LS			648

10 DESCRIPTION OF PROPOSED CONSTRUCTION

Install electrical and mechanical utilities on the ramp areas north and east of Building 295, Site 1.

Includes secondary electrical power distribution to islands at each ramp operation station. Provides compressed air and water system at each station. Relocates light standards, fire hydrants and removes unused utilities not associated with B-1B support at each area.

Project cost includes architect/engineer services.

JUSTIFICATION

B-1B production flight/ramp operations at Site 1 will require utilities on the ramp for ten operational stations. Ramp stations will include offensive/defensive avionics checkout, flight operations engine run stations, retrofit operations and aircraft delivery stations.

Each of these stations will require adequate electrical power to operate aerospace ground support equipment such as hydraulic GPU, electrical 400 Hz cart, avionics cooling cart, pressurization cart and miscellaneous checkout consoles.

In addition to electrical utilities, compressed air, domestic water and a communications system is required at each station.

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1 COMPONENT	FY 1983 FACILITY .. PROJECT DATA	2 DATE
AIR FORCE		JAN 1982

3 INSTALLATION AND LOCATION	4 PROJECT TITLE
Air Force Plant 42, Palmdale, CA Site 1 North American Aircraft - Rockwell Int'l	B-1B PRODUCTION FACILITY EXPANSION MPC-1000

5 PROGRAM ELEMENT	6 CATEGORY CODE	7 PROJECT NUMBER	8 PROJECT COST ($000)
78011F	880-232		$751

9 COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Convert Sprinkler Deluge System to Foam Type, Building 295	LS			751

10 DESCRIPTION OF PROPOSED CONSTRUCTION

Install Aques Film Forming Foam (AFFF)(Light Water) foam concentrate to operate in conjunction with the existing electrically actuated deluge system, located in highbay area of Building 295.

Installation will require defusing of existing closed sprinkler heads, mounting chemical tanks and plumbing these tanks to existing deluge risers.

Project costs includes Architect/Engineer services.

JUSTIFICATION

Building 295 will house two fueled B-1B aircraft for flight checkout and flight delivery operations.

The AFFF (Light Water) foam system is required for hangars housing fueled aircraft. The quenching of fires and prevention of flash-back are important assets in terms of property and personnel safety.

The deluge drainage system does not tie into the existing sewer lines. The system drains to a separate holding ditch.

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(3)

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1 COMPONENT	FY 1983 FACILITY - PROJECT DATA	2 DATE
AIR FORCE		JAN 1982

3. INSTALLATION AND LOCATION	4 PROJECT TITLE
Air Force Plant 42, Palmdale, CA Site 1 North American Aircraft - Rockwell Int'l	B-1B PRODUCTION FACILITY EXPANSION MPC-1000

5 PROGRAM ELEMENT	6 CATEGORY CODE	7 PROJECT NUMBER	8 PROJECT COST ($000)
78011F	221-221		$331

9 COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Convert Building 295 for Fueled Aircraft	LS			331

10 DESCRIPTION OF PROPOSED CONSTRUCTION

Raise all electrical work, switch panels, outlets, supply panels, generators, conductors, etc. 18" above existing hangar floor in accordance with the National Electric Code and other regulations for hangars with fueled aircraft. Rehabilitate louvers and install fire links as necessary.

Project costs include Architect/Engineer services.

JUSTIFICATION

Building 295 is designated for B-1B pre-flight flight checkout and flight delivery operations. After flight tests, the aircraft will require certain ground operational checks on various components and systems. These tests require the aircraft to be on jacks for partial disassembly and inspection. Outdoor stations are not feasible.

Flight checkout operations require a stable environment to preclude possible aircraft/component damage. Wind velocity and changing weather conditions would have a detrimental impact on these activities.

All aircraft progressing through flight operations will contain fuel or have contained fuel which cannot be completely or readily removed; therefore, Building 295 hangar area requires modification to comply with specifications/regulations for fueled aircraft.

Defueling, purging and refueling prior to housing aircraft, in lieu of this Building 295 modification, would require an excessive number of hours. This alternate is not feasible with planned aircraft delivery.

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1 COMPONENT	FY 1983 FACILITIES PROJECT DATA	2 DATE
Air Force		31 Aug 81

3 INSTALLATION AND LOCATION	4. PROJECT TITLE
AF Plant 63 Wyman Gordon Co North Grafton MA	Environmental-MPC 7000

5 PROGRAM ELEMENT	6 CATEGORY CODE	7. PROJECT NUMBER	8 PROJECT COST ($000)
78011F	831-155		12,746.5

9 COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Environmental Protection Wastewater Management System	LS			12,746.5

10 DESCRIPTION OF PROPOSED CONSTRUCTION

A system of water pollution control equipment and hazardous waste management facilities will be installed at AF Plant 63. Design of the system has already been funded and will be completed in CY 1982. Funding requested will provide for construction of the system cleanup and closure of existing storage/disposal facilities which are no longer in compliance with environmental regulations. It is anticipated that the proposed system will incorporate the following features.

a. Nitrate removal system
b. Oil in water emulsion splitting treatment system
c. Storm runoff containment and treatment lagoon
d. Primary free-floating oil/water separation system
e. Secondary oil/water separation system
f. Auxiliary Press Water Treatment system
g. Chemically contaiminated wastewater pretreatment facility
h. Heat treat quench water reuse system
i. Boiler and cooling tower blowdown treatment system
j. Removal of hazardous wastes from existing surface impoundments.
k. Closure of surface impoundments and installation of groundwater monitoring wells.

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1 COMPONENT	FY 19 83 FACILITY .. PROJECT DATA	2 DATE
AIR FORCE		Jan 1982

3 INSTALLATION AND LOCATION	4 PROJECT TITLE
Navy Plant 303, Columbus OH North American Acft, Rockwell Intl	Environmental Protection, MPC 700

5 PROGRAM ELEMENT	6 CATEGORY CODE	7 PROJECT NUMBER	8 PROJECT COST ($000)
78011F	821-116		$5,300

9 COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
1. Flue Gas Filtration System (Design Phase)	LS		N/A	300
2. Flue Gas Filtration System (Construction Phase)	LS		N/A	5,000

10 DESCRIPTION OF PROPOSED CONSTRUCTION

1. Design a dry scrubber - reverse air baghouse system to comply with EPA emission standards for coal-fired steam boilers. Project cost includes Architect/Engineer services.

2. Install a dry scrubber-reverse air baghouse system. Project includes site preparation, equipment to control flue gas flow during the filtering and cleaning cycles, collection hopper, filter bags, system enclosure and structural support, monitors, instrumentation package, stack and EPA certification - stack tests. Project cost includes Engineer services.

JUSTIFICATION: Plant 303 currently burns coal for 95% of its steam requirements. Increased steam requirements to support B-1B production will necessitate installation of the flue gas filtration system or conversion to oil/natural gas fuel in order to comply with existing clean air standards. Conversion to critical fuel usage will result in increased utility costs of $13.5M for the period FY 84-86. Estimated payback period for this project is 1.35 years.

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1 COMPONENT	FY 1983 FACILITY PROJECT DATA	2 DATE
AIR FORCE		JAN 1982

3 INSTALLATION AND LOCATION	4 PROJECT TITLE
Navy Plant 303, Columbus OH North American Acft, Rockwell Intl	Environmental Protection, MPC 7000

5 PROGRAM ELEMENT	6 CATEGORY CODE	7 PROJECT NUMBER	8 PROJECT COST ($000)
78011F	831-155		180

9 COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Expand Capacity of Waste Treatment Plant, Building 282	LS			180

10 DESCRIPTION OF PROPOSED CONSTRUCTION

Install a 216,000 gal rinse water holding tank. The project cost includes Architect/Engineer services.

JUSTIFICATION: The overflow from the plant's processing systems is currently pumped to two 216,000 gal holding tanks to await treatment. The B-1B production program will significantly increase utilization of the plant processing systems and will increase the amount of overflow. Installation of the third holding tank will enable the existing treatment system to handle the increased load. Without this project, the system will be inadequate to handle the projected waste treatment requirment.

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War Consumables

The funds requested, along with prior funded assets, will provide additional wartime support needed, in the event of hostilities, to sustain operations until such time as production could be expanded to provide the required level of support. Included in this program are auxiliary fuel tanks, pylons, ejector racks and adaptors which are consumed during wartime operations.

The following is a breakout, by fiscal year, of the War Consumables program:

(In Millions of Dollars)

	FY 1981	FY 1982	FY 1983	FY 1984
F-16 Aircraft	$6.9	$77.9	$140.8	$212.8
HH-53 Aircraft	-	5.9	-	-
TOTAL War Consumables	$6.9	$83.8	$140.8	$212.8

Other Production Charges

This program provides for items, such as Classified Projects, Alternate Mission Equipment, and Range Improvement, that are not directly related to other procurement lines in this appropriation and cannot be reasonably allocated and charged thereto. It also includes items, such as Electronic Countermeasure (ECM) Pods, Precision Location Strike System, LANTIRN, CBU-15 Pods and 30MM Gun Pods, that are used by more than one weapon system and managed as end items themselves. The following table provides a comparison, by fiscal year, of the items in this program:

(In Millions of Dollars)

	FY 1981	FY 1982	FY 1983	FY 1984
Classified Projects 1/	$543.1	$ 742.9	$566.0	$ 938.9
ECM Pods	163.8	240.4	237.4	289.5
Pave Tack Cradles	-	-	5.0	-
Airborne Video Tape Recorder/ Cockpit TV Sensor	11.6	10.5	8.9	10.7
Alternate Mission Equipment	32.0	36.3	15.3	14.9
Range Improvement	6.4	6.8	4.3	3.2
CBU-15	10.0	6.5	9.6	-
LANTIRN	1.0	5.0	15.7	25.4
AF Academy Sailplanes	.5	.4	-	-
30MM Gun Pods	32.3	41.7	29.5	29.4
Classified Avionics Program	-	-	67.0	119.0
Precision Location Strike System	-	1.7	1.8	6.4
TOTAL OTHER PRODUCTION CHARGES	$800.7	$1094.2	$960.5	$1442.4

1/ Includes $35.8 million in FY 81, $78.6 million in FY 82, $75.8 million in FY 83, $43.2 million in FY 84 for NFIP.

Justification for the various line items is as follows:

Classified Projects:

Includes the Air Force Tactical Improvement Program and several National defense projects which are classified Special Access.

ECM Pods:

Includes the procurement of new pods, such as the AIQ-131, and update of inventory pods, such as the ALQ-119, to maintain capability to counter the latest Soviet threats. The pods are used on several tactical strike/reconnaissance aircraft.

Pave Track Cradles:

Pave Tack provides a 24 hour target acquisition/laser designation system for F-4E, RF-4C, and F-111F aircraft. The funds in FY 83 procure cradles which are required to mate the Pave Tack pod with the F-111F aircraft.

Airborne Video Tape Recorder (AVTR)/Cockpit TV Sensor (CTVS):

The AVTR records all audio available at the aircrew headset and all video displays on the radar/Electro-Optical display and head-up display (HUD). Aircrews, maintenance crews, and combat and training units use the video tape recordings to analyze mission and training results and for maintenance trouble shooting. The AVTR will be common to the entire tactical force. The CTVS will replace the existing gun camera which employs film; the advantage is that no film processing is required, making the data available for use immediately after landing. The CTVS will provide imagery data to the AVTR for recording, including a split-screen presentation for multiple video sources.

Alternate Mission Equipment:

The program procures electronic warfare and airborne photography/reconnaissance equipment to provide countermeasure capabilities against changing enemy electronic defenses or for other unpredicted and urgent operational requirements.

Range Improvement:

This is a joint Air Force/Navy program to procure pods which provide accurate kill/no kill data for assessment of tactics and aircrew training at the Air Combat Maneuvering Range. The pod is mounted on a standard launch rail and transmits attitude, airspeed, altitude, angle of attack, and weapons information to ground sites.

GBU-15 Pods: This program provides a radio frequency link between an aircraft and a GBU-15 Modular Guided Weapon System from weapon launch to impact to enable man-in-the-loop guidance for improved weapon CEP and enhanced aircraft survivability. The pods are used on F-4E and F-111F aircraft to attack heavily defended targets of high military value.

Low Altitude Navigation and Targeting Infrared System for Night (LANTIRN):

Includes procurement of new pods to provide a night, under weather capability on the A-10 and F-16 aircraft to automatically attack ground targets on low level mission in a single pass.

Air Force Academy Sailplanes:

Powered sailplanes will be procured for the Air Force Academy to overcome runway and airspace constraints of the soaring program, thereby enhancing flying safety. Soaring is the primary motivational program for Air Force Academy cadets, 75% of whom go on to undergraduate flying training. The powered sailplanes will enable every cadet to solo in a glider, a goal considered essential by the Board of Visitors.

30MM Gun Pods:

These pods will provide a near term, reliable, relatively low cost, easy-to-employ, anti-armor killing weapon for A-7, F-4 and F-16 fighter aircraft.

Classified Avionics Program: This is a Classified Program and Special Access is required for programmatic details.

Precision Location Strike System (PLSS):

PLSS is designed to locate, identify, and guide applicable munitions or weapon systems strikes on enemy emitters in all-weather conditions from standoff ranges.

U.S. Contribution to NATO Airborne Warning & Control System (AWACS) Aircraft Program:

This program provides the U.S. share of costs, including acquisition, operation, and support, of the NATO AWACS program. The total U.S. share through FY 1987, to be paid in annual increments, is $1.693 million. NATO's acquisition of its own force of 18 AWACS aircraft, to be complemented by 11 United Kingdom Nimrod Airborne Early Warning aircraft, for operations in Europe will make a major improvement in the military effectiveness of the Alliance, particularly against the growing low level air attack threat posed by the Warsaw Pact. The AWACS force, with attendant equipage, basing, and modification to the European ground radar environment, will provide improved air defense and counter-air operations for NATO forces. It will provide deep look surveillance and deterrence of potential Warsaw Pact threats, and improve the military responsiveness of the Alliance through its early warning, surveillance and information distribution capabilities. In wartime, the AWACS will increase the effectiveness of Allied weapon systems while helping to standardize system capabilities. The NATO AWACS will be interoperable with the USAF AWACS, the UK Nimrod AEW, and with both U.S. tactical and European national command and control systems. The unprecedented Alliance-wide commonly funded program is the most practical way for the Alliance to attain an effective Airborne Early Warning capability.

(In Millions of Dollars)

	FY 1981	FY 1982	FY 1983	FY 1984
NATO AWACS	$382.0	$344.3	$186.1	$108.8

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DO NOT TYPE BEYOND THE BLUE LINES OR BOTTOM OF SIDES

COMPARISON OF FY 1982 PROGRAM REQUIREMENTS AS REFLECTED
IN FY 1982 BUDGET WITH FY 1982 PROGRAM REQUIREMENTS AS
SHOWN IN FY 1983 BUDGET

SUMMARY OF REQUIREMENTS (In Thousands of Dollars)

	Total Program Requirements Per 1982 Budget	Total Program Requirements Per 1983 Budget	Increase + or Decrease -
Combat Aircraft	$5,527,200	$5,462,900	$-64,300
Airlift Aircraft	-	379,500	+379,500
Other Aircraft	146,500	146,500	-
Modification of In-Service Aircraft	2,106,600	2,115,100	+8,500
Aircraft Spares and Repair Parts	3,997,000	3,898,600	-98,400
Aircraft Support Equipment & Facilities ..	2,066,600	2,019,298	-47,302
Reimbursable Program	266,538	470,000	+203,462
Total Fiscal Year Program	$14,110,438	$14,491,898	$+381,460

*Includes proposed supplemental of $219,100 thousand

EXPLANATION BY BUDGET ACTIVITY

1. Combat Aircraft - (-$64.3 million). The net decrease results from Congressional changes to the FY 82 Budget (+$0.5 million): B-1B, -$100.0M; A-10, -$40.0M; F-15, -$111.6M; F-16, +$4.9M; KC-10, +$220.2M; MC-130H, +$27.0M); proposed reprogrammings (-$179.8M): B-1B, -$179.1M; F-15 Advance Procurement, +$25.0M; E-3A Advance Procurement, -$25.7M; and, a proposed supplemental of $115.0 million for the KC-10.

2. Airlift Aircraft - (+$379.5 million). The increase is a result of a $109.5 million Congressional addition for the C-130H and a proposed increase of $270.0 million for C-5B Advance Procurement to be funded by reappropriations of FY 1980 and 1981 CRAF modification funds (+$73.2M); proposed reprogramming (+$97.7M); and a proposed supplemental of $99.1 million.

5. Modification of In-Service Aircraft - (+$8.5 million). This net increase is a result of Congressional changes to the FY 82 Budget (+$62.6 million): B-52, +$62.1M; F-106, -$15.6M; F-4, +$7.1M; T-38, +$9.0M); proposed reprogrammings (-$76.1 million); F-4, -$16.9M; F-111, +$38.5M; B-52, -$50.0M; CRAF, -$47.7M, the redistribution of $22.5 million from Spares and Repair Parts to support Congressional action in support of the KC-135 JT3D re-engining; and below threshold reprogrammings (-$0.5 million).

6. Aircraft Spares and Repair Parts - (-$98.4 million). The net decrease is the result of a Congressional reduction to the FY 82 Budget of $132.1 million, of which $19.4M is an undistributed reduction for funding the Army National Guard and Reserve; proposed reprogrammings of +$50.0M from B-52 modifications, a redistribution of -$22.5 to C-135 JT-3D re-engining modification; a proposed supplemental adding $5.0 million to KC-10 Initial Spares; and, below threshold reprogrammings (+$1.2 million).

(93)

7. Aircraft Support Equipment and Facilities - (-$47.3 million). The net decrease is a result of Congressional reductions to the FY 82 Budget of -$49.7 million (Other Production Charges, -$35.8 million and NATO AWACS, -$13.9 million); a reappropriation of $24.0 million from the FY 1981 program; and a proposed reprogramming of $21.6 million to the F-111 modification.

8. Reimbursable Program - (+$203.5 million). The increase is due to receipt of more customer orders than anticipated.

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COMPARISON OF FY 1982 FINANCING AS REFLECTED IN FY 1982 BUDGET WITH FY 1982 FINANCING AS SHOWN IN FY 1983 BUDGET

(In Thousands of Dollars)

	Financing Per FY 1982 Amended Budget	Financing Per FY 1983 Budget	Increase(+) or Decrease (-)
Program requirements	14,110,438	14,491,898[a]	+381,460
Program requirements (Service account)	13,843,900	14,021,898	+177,998
Program requirements (Reimbursable)	266,538	470,000	+203,462
Less:			
Anticipated Reimbursements	266,538	470,000	+203,462
Reappropriation		162,900	+162,900
Add:			
Transferred to other accounts		179,100	+179,100
Appropriation	13,843,900	14,038,098[a]	+194,198

a/ Includes proposed supplemental of $219,100 thousand

(95)

EXPLANATION OF CHANGES IN FINANCING

The Fiscal Year 1982 program has increased $381,460 thousand since submission of the FY 1982 budget. Adjustments by category are explained below:

1. Anticipated Reimbursements: The increase is due to a revised estimate of customer orders in FY 1982.

2. Reappropriation. The increase is due to Congressionally directed transfer of $65,700 thousand F-16 and $24,000 thousand Other Production Charges from FY 1981 to FY 1982 and an OSD directed transfer of CRAF unobligated balance ($36.1 million FY 80 and $37.1 million FY 81 to FY 1982).

3. Transfer to Other Accounts. The increase is due to an Air Force reprogramming of $179,100 thousand B-1 from Aircraft Procurement, AF, FY 1982 to RDT&E, AF FY 1982.

COMPARISON OF FY 1981 PROGRAM REQUIREMENTS AS REFLECTED IN FY 1982 BUDGET WITH FY 1981 PROGRAM REQUIREMENTS AS SHOWN IN FY 1983 BUDGET

SUMMARY OF REQUIREMENTS (In Thousands of Dollars)

	Total Program Requirements Per 1982 Budget	Total Program Requirements Per 1983 Budget	Increase + or Decrease -
Combat Aircraft	$4,066,860	$4,002,990	$-63,870
Airlift Aircraft	68,900	68,900	-
Other Aircraft	153,400	148,400	-5,000
Modification of In-Service Aircraft	1,915,945	1,865,115	-50,830
Aircraft Spares and Repair Parts	2,647,455	2,709,755	+62,300
Aircraft Support Equipment and Facilities	1,574,868	1,502,468	-72,400
Reimbursable Program	266,538	311,017	+44,479
Total Fiscal Year Program	$10,693,966	$10,608,645	-$85,321

EXPLANATION BY BUDGET ACTIVITY

1. Combat Aircraft - (-$63.9 million). The net decrease was the result of Congressionally approved reprogrammings (KC-10, +$13.9 million and E-3A, -$2.3 million), below threshold reprogrammings (-$9.8 million), and a reappropriation of $65.7 million from the F-16 to FY 82 Aircraft Procurement.

4. Other Aircraft - (-$5.0 million). The decrease was the result of a Congressionally approved reprogramming of $5.0 million from the TR-1 weapon system and advance procurement lines.

5. Modification of In-Service Aircraft - (-$50.8 million). The net decrease was the result of Congressionally approved reprogrammings of -$22.0 million (A-10, -$2.8 million; F-15, -$4.2 million; CRAF, -$15.0 million), below threshold reprogrammings (+$8.3 million), and a proposed reappropriation of $37.1 million from CRAF to FY 82 Aircraft Procurement.

6. Aircraft Spares and Repair Parts - (+$62.3 million). The increase was the result of a Congressionally approved reprogramming (+$60.8 million) and below threshold reprogrammings (+$1.5 million).

7. Aircraft Support Equipment and Facilities - (-$72.4 million). The decrease was a result of Congressionally approved reprogrammings (-$15.0 million, Common Ground Equipment; -$15.0 million, Industrial Facilities; -$18.4 million, Other Production Charges), and a reappropriation of $24.0 million from Other Production Charges to FY 82 Aircraft Procurement.

8. Reimbursable Program - (+$44.5 million). The increase was due to receipt of more customer orders than anticipated.

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COMPARISON OF FY 1981 FINANCING AS REFLECTED IN FY 1982 BUDGET WITH FY 1981 FINANCING AS SHOWN IN FY 1983 BUDGET

(In Thousands of Dollars)

	Financing Per FY 1982 Amended Budget	Financing Per FY 1983 Budget	Increase (+) or Decrease (-)
Program requirements	10,693,966	10,608,645	-85,321
Program Requirements (Service account)	10,427,428	10,297,628	-129,800
Program Requirements (Reimbursable)	266,538	311,017	+44,479
Less:			
Anticipated Reimbursements	266,538	311,017	+44,479
Reprogramming from other accounts			
Add:			
Transferred to other accounts		3,000	+3,000
Unobligated Balance to finance subsequent year budget plans		126,800	+126,800
Unobligated Balance Lapsing			
Appropriation	10,427,428	10,427,428	--

(79)

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EXPLANATION OF CHANGES IN FINANCING

The Fiscal Year 1981 program has decreased $85,321 thousand since submission of the FY1982 budget. Adjustments by category of financing are explained below:

1. Anticipated Reimbursements. The increase of $44,479 thousand is due to actual customer orders in FY1981

2. Reprogramming from other accounts. $57,948 thousand FY79 unobligated balance lapsing and $36,100 thousand of FY80 unobligated balance transferred to FY82.

3. Transfer to Other Accounts. $3,000 thousand was transferred to RDT&E, AF FY1981 in accordance with Section 734, PL 96-527.

4. Unobligated Balance to Finance Subsequent Year Budget Plans. Financing adjustment to finance FY1982 program. $65.7 F-16 and $24.0 other Production charges per Congressional Direction and $37.1 from CRAF, for mobility forces.

(80)

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ANALYSIS OF UNOBLIGATED BALANCES - 30 SEPTEMBER 1983
SUMMARY BY CATEGORY
(In Millions of Dollars)

	FY1982	FY1983	Total	% of Total Unobligated
1. Military Interdepartmental Purchase Requests: (MIPRs)	$102.6	$292.4	$395.0	6.6%
2. Completing Contractual Arrangements:				
a. Specification Definitions	48.2	137.4	185.6	3.1%
b. Price Redeterminations	236.3	673.5	909.8	15.2%
c. Definitization of Contracts	317.1	903.9	1221.0	20.4%
3. Full Funding Policy:				
a. Delayed/Revised Program Release	580.0	1652.6	2232.6	37.3%
b. Engineering Changes	270.5	770.9	1041.4	17.4%
TOTAL UNOBLIGATED FY 1983	$1554.7[1]	$4430.7	$5985.4	

1/ Includes $24,090 thousand unobligated proposed supplemental appropriation

EXPLANATION

Procurement funds are available for obligation for three years because of the extensive lead time required to develop detailed specification, issue Requests for Proposals (RFPs) and to negotiate and finalize contracts for procurement of investment equipment. Unobligated balances are required for programmed and needed items on which contracts have not reached the obligational stage by the end of the fiscal year because of the procurement process.

(81)

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The following are illustrative of the reasons which will cause unobligated balances at the end of each fiscal year:

1. Military Interdepartmental Purchase Requests (MIPRs) ($395.0 million) - These documents are used to request one of the other military services to procure Air Force requirements in conjunction with their own or with those of another service. Funds to support these requests remain unobligated until notification of contract award is received from the other military service. Frequently, contractual arrangements will have been completed and the obligation incurred but notification from the other service is not received in time for recording in Air Force records prior to or at the end of a fiscal year.

2. Completing Contractual Arrangements

a. Specification Definitions ($185.6 million) - Unobligated funds result when specifications for newly introduced items cannot be definitized in time to permit contract negotiation prior to or at the end of the fiscal year.

b. Price Redeterminations ($909.8 million) - Prices are redetermined at intervals throughout the life of a contract. Final obligation for contracts must await negotiations on agreed target-ceiling formulae. In most large contracts, the rewards and penalties of multiple incentives (cost, performance and schedule) cannot be determined and obligated prior to the end of the fiscal year. Funds are reserved for these purposes when upward adjustments seem likely; however, obligation does not occur until a formal redetermination has been agreed upon and the contract amended. Unobligated funds at year end result.

c. Definitization of Contracts ($1221.0 million) - Procurements of complex systems and large material orders may occasionally be initiated under letter contracts. The letter contract generates a partial obligation of the total program value with the balance remaining committed but unobligated pending definitization and negotiation of the detailed contract terms. These actions can carry over the end of a fiscal year and result in unobligated funds.

DO NOT TYPE

3. Full Funding Policy - This policy, enunciated in DoD Directive 7200.4 (October 30, 1969) provides that adequate appropriations and funds must be available in a given fiscal year for obligation, committed or set aside in a reserve account in an aggregate amount sufficient to complete the procurement of a specified number of end items and advance procurement for approved programs. Unobligated balances at the end of a fiscal year are a consequence of this policy and accrue in the following categories:

a. Delayed Revised Program Release ($2232.6 million) Adjustments in quantities or specifications of other equipment to meet changing situations or to exploit engineering improvements generally require prior approval of reprogramming requests which can delay program release and direction until well into the fiscal year, thus delaying the obligation of funds by the end of the fiscal year. Also, approved and funded programs are sometimes delayed/accelerated beyond 30 September pending decision on an aspect of the program that has arisen requiring resolution before proceeding.

b. Engineering Changes ($1041.4 million) - Based on prior experience with systems of like nature and complexities, provision is made in procurement programs, as a percentage of the estimated cost of the item, to cover engineering improvements and design changes which will occur as a result of manufacturing experience of Air Force requirement. Engineering changes are not definitive requirements known in advance and they cannot be obligated until the change is authorized and directed. These changes occur throughout the life of the production contract and result in unobligated balances.

(83)

FLIGHT SIMULATOR PROCUREMENT PROGRAM
(Dollars in Millions)

APPROPRIATION: Aircraft Procurement, Air Force

Weapon System	Type	P-1 Line Item	FY 81 & Prior Qty	FY 81 & Prior Amt	FY 82 Qty	FY 82 Amt	FY 83 Qty	FY 83 Amt	FY 84 Qty	FY 84 Amt	FY 85 Qty	FY 85 Amt
A-10		4	14	56.5								
	TOTAL		14	56.6								
B-1		60										34.8
	TOTAL											34.8
B-52	OAS PTT & WST/OSMT	60	4/6/1	269.0	5	96.9						
	Spares	58		14.8		5.3						
	TOTAL		4/6/1	283.8	5	102.2						
C-5	ARPTT	60								1.5		19.8
	Spares	58								.1		1.1
	TOTAL									1.6		20.9
C-141	ARPTT	60								1.4		19.2
	Spares	58								.1		1.1
	TOTAL									1.5		20.3
RF-111	OFT	60										35.8
	Spares	58										2.1
	TOTAL											37.9
F-15	OFT	8	11	81.1			1	13.8	2	27.3	1	22.2
	TOTAL		11	81.1			1	13.8	2	27.3	1	22.2
F-16	A/B/E OFT	10	11	119.4	2	37.4		45.3	2	68.1	3	124.6
	TOTAL		11	119.4	2	37.4		45.3	2	68.1	3	124.6
KC-10A	MS	12	3	16.6			1	22.8			1	27.7
	CPT/FOPTT		1/1	2.6			1/1	3.7			1/1	4.6
	TOTAL		1/1/1	19.2			1/1/1	26.5			1/1/1	32.3
KC-135	WST & Update	60	1	4.4								
	Spares	58		.2								
	TOTAL		1	4.6								
GRAND TOTAL				564.6		139.3		85.6		98.5		293.0

Exhibit P-43 (pg 1 of 3)

(84)

FLIGHT SIMULATOR PROCUREMENT PROGRAM
(Dollars in Millions)

APPROPRIATION: Aircraft Procurement, Air Force

Weapon System	Type	P-1 Line Item	FY 86 Qty	FY 86 Amt	FY 87 Qty	FY 87 Amt	Cost to Complete Qty	Cost to Complete Amt	TOTAL COST Qty	TOTAL COST Amt
A-10		4							14	56.5
	TOTAL								14	56.5
B-1		60		133.9		74.7				243.4
	TOTAL			133.9		74.7				243.4
B-52	OAS PTT & WST/OSMT	60								365.9
	Spares	58								20.1
	TOTAL									386.0
C-5	ARPTT	60								21.3
	Spares	58								1.2
	TOTAL									22.5
C-141	ARPTT	60								20.6
	Spares	58								1.2
	TOTAL									21.8
EF-111	OFT	60								35.8
	Spares	58								2.1
	TOTAL									37.9
F-15	OFT	8	1	23.5			12	324.4	28	492.3
	TOTAL		1	23.5			12	324.4	28	492.3
F-16	A/B OFT	10		129.1		148.4		550.3	20	1,222.6
	TOTAL			129.1		148.4		550.3	20	1,222.6
KC-10A	MS	12							3	67.1
	CPT/BOPTT								3/3	10.9
	TOTAL								3/3/3	78.0
KC-135	WST & UPDATE	60							1	4.4
	Spares	58								.2
	TOTAL									4.6
GRAND TOTAL				286.5		223.1		[illegible].7		2,565.6

Legend	ARPTT	Air Refueling Part Task Trainer
	BOPTT	Boom Operator Part Task Trainer
	CPT	Cockpit Procedures Trainer
	MS	Mission Simulator
	OAS PTT	Offensive Avionics System Part Task Trainer
	OFT	Operational Flight Trainer
	OSMT	Offensive System Mission Trainer
	WST	Weapon System Trainer

MODIFICATION OF AIRCRAFT
FY-83 PROGRAM

FY-83 APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: TAIL WARNING SYSTEM, MM-2923

MODELS OF AIRCRAFT AFFECTED: B-52 G/H

DESCRIPTION/JUSTIFICATION: PROVIDES AN ACTIVE RADAR SYSTEM TO GIVE DETECTION AND WARNING OF AIR-TO-AIR MISSILE THREATS AGAINST THE B-52. PROVIDES AUTOMATIC MANAGEMENT OF EXPENDABLE COUNTERMEASURES (INFRARED FLARES) USED TO DECOY IR-SEEKING MISSILES. CAPABILITY TO DETECT AIR-TO-AIR MISSILES, THUS INFORMATION NEEDED TO DISPENSE FLARES WITH

SCOPE OF PROGRAM:

	PRIOR		FY-82		FY-83		FY-84		OUTYEAR		T O T A L	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
	168	72.9	61	16.1	39	11.9					268	100.9
BASIS FOR COST ESTIMATE:												
NONRECURRING	2	5.4									2	5.4
KITS	166	41.5	61	16.1	39	11.9					266	69.5
DATA		7.8										7.8
TRAINER		.9										.9
SUPPORT EQUIP.		17.3										17.3
TOTAL	168	72.9	61	16.1	39	11.9					268	100.9

METHOD OF IMPLEMENTATION: INSTALLATION - DEPOT/PDM
LEAD TIME - 18 MONTHS

(87)

MODIFICATION OF AIRCRAFT
FY-83 PROGRAM

FY-83 APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: ALCM-CARRIER AIRCRAFT, MM-3022

MODELS OF AIRCRAFT AFFECTED: B-52G/H

DESCRIPTION/JUSTIFICATION: PROVIDES THE B-52G/H AIRCRAFT WITH THE CAPABILITY TO CARRY AND LAUNCH THE AIR LAUNCHED CRUISE MISSILE. PROVIDES FOR EXTERNAL CARRIAGE FOR 105 B-52G AIRCRAFT AND INCLUDES FUNDING FOR INTERNAL AND EXTERNAL CARRIAGE BEGINNING IN FY 1983 FOR 96 B-52H AIRCRAFT.

SCOPE OF PROGRAM:

	PRIOR		FY-82		FY-83		FY-84		OUTYEAR		T O T A L	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
	65	202.1	40	95.2	22	154.3	23	468.6	51	307.4	201	1227.6
BASIS FOR COST ESTIMATE:												
NONRECURRING		19.2				8.0						27.2
KITS	65	46.2	40	27.9	22	17.3	23	35.0	51	101.2	201	227.6
DATA		8.6		3.4		4.2		14.5		35.6		66.3
TRAINER		1.3				5.3		13.0		10.0		29.6
SUPPORT EQUIP.		8.9		3.7		10.2		31.5		26.4		80.7
TOOLING		42.1				38.7		23.5				104.3
PYLON	(122)	75.8	(78)	60.2	(44)	48.2	(46)	50.2	(110)	134.2	(400)	368.6
LAUNCHERS						22.4	(115)	300.9			(115)	323.3
TOTAL	65	202.1	40	95.2	22	154.3	23	468.6	51	307.4	201	1227.6

METHOD OF IMPLEMENTATION: INSTALLATION - DEPOT/PDM
LEAD TIME - 26 MONTHS

(88)

DO NOT TYPE

MODIFICATION OF AIRCRAFT
FY-83 PROGRAM

FY-83 APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: AVIONICS MODERNIZATION (OAS), MM-3023

MODELS OF AIRCRAFT AFFECTED: B-52 G/H

DESCRIPTION/JUSTIFICATION: PRESENT BOMBING NAVIGATION SYSTEM WAS DESIGNED USING 1950 TECHNOLOGY. SYSTEM SUFFERS FROM LOW RELIABILITY, HIGH SUPPORT COST AND INADEQUATE CAPABILITY THUS REDUCI WEAPON SYSTEM EFFECTIVENESS. UPDATE REPLACES PRESENT ANALOG SYSTEM WITH A DIGITAL SYSTEM AN STATE-OF-THE ART SENSORS AND SUBSYSTEMS. NEW SYSTEM IS REQUIRED TO MEET THE STRATEGIC BOMBE MISSION REQUIREMENTS AND TO INTERFACE WITH THE INTRODUCTION OF CRUISE MISSILES ON THE B-52.

SCOPE OF PROGRAM:

	PRIOR		FY-82		FY-83		FY-84		OUTYEAR		T O T A L	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
	100	644.8	61	230.7	64	305.3	43	212.1			268	1392.
BASIS FOR COST ESTIMATE:												
NONRECURRING		84.5		2.0		35.7		20.9				143.
KITS	100	298.3	61	181.9	64	209.7	43	154.4			268	844.
DATA		57.3		11.1		18.0		14.8				101.
TRAINER		68.8		11.7		10.7		11.3				94.
SUPPORT EQUIP.		134.2		24.0		31.2		10.7				200.
TOOLING		9.7										9.
TOTAL	100	644.8	61	230.7	64	305.3	43	212.1			268	1392.

METHOD OF IMPLEMENTATION. INSTALLATION - DEPOT/PDM
LEAD TIME - 24 MONTHS

(89)

DO NOT TYPE B

MODIFICATION OF AIRCRAFT
FY-83 PROGRAM

FY-83 APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: AIRCRAFT MONITOR AND CONTROL (AMAC), MM-3087

MODELS OF AIRCRAFT AFFECTED: B-52G/H

DESCRIPTION/JUSTIFICATION: IMPLEMENTS THE AIRCRAFT PORTION OF THE NUCLEAR STOCKPILE IMPROVEMENT PROGRAM FOR GRAVITY WEAPONS ON THE B-52 G/H AIRCRAFT. NEW AMAC IS REQUIRED TO INTERFACE WITH NEW AND UPDATED NUCLEAR GRAVITY WEAPONS.

SCOPE OF PROGRAM:

	PRIOR		FY-82		FY-83		FY-84		OUTYEAR		T O T A L	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
			165	12.3	103	10.9					268	23.2
BASIS FOR COST ESTIMATE:												
NONRECURRING			2	1.0							2	1.0
KITS			163	8.5	103	5.1					266	13.6
DATA				.8								.8
SUPPORT EQUIP.				1.5		5.5						7.0
TRAINER				.5		.3						.8
TOTAL			165	12.3	103	10.9					268	23.2

METHOD OF IMPLEMENTATION: INSTALLATION - DEPOT/FIELD TEAM
LEAD TIME - 24 MONTHS

(90)

MODIFICATION OF AIRCRAFT
FY-83 PROGRAM

FY-83 APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: COUNTER SURVACS

MODELS OF AIRCRAFT AFFECTED: B-52G/H

DESCRIPTION/JUSTIFICATION: PROVIDES A SYSTEM DESIGNED TO DENY THE SOVIET AIRBORNE WARNING AND CONTROL SYSTEM SURVEILLANCE RADARS THE ABILITY TO DETECT AND TRACK THE B-52 AIRCRAFT. THIS ACTION WILL

SCOPE OF PROGRAM:

	PRIOR QTY	PRIOR COST	FY-82 QTY	FY-82 COST	FY-83 QTY	FY-83 COST	FY-84 QTY	FY-84 COST	OUTYEAR QTY	OUTYEAR COST	T O T A L QTY	T O T A L COST
							5	34.9	263	310.3	268	345.
BASIS FOR COST ESTIMATE:												
NONRECURRING								10.8		17.0		27.
KITS							5	6.1	263	256.7	268	262.
DATA								4.5		13.5		18.
TRAINER								5.9				5.
SUPPORT EQUIP.								7.6		23.1		30.
TOTAL							5	34.9	263	310.3	268	345.

METHOD OF IMPLEMENTATION: INSTALLATION - DEPOT/FIELD TEAM
LEAD TIME - 24 MONTHS

(91)

DO NOT TYPE P...

MODIFICATION OF AIRCRAFT
FY-83 PROGRAM

FY-83 APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: B-52G CONVENTIONAL CARRIAGE

MODELS OF AIRCRAFT AFFECTED: B-52G

DESCRIPTION/JUSTIFICATION: EXPANDS CONVENTIONAL BOMB CAPACITY FROM 27 TO 45 MK82 WEAPONS BY ADDING PROVISIONS FOR EXTERNAL CARRIAGE ON 67 NON-ALCM B52G AIRCRAFT USING STUB PYLONS WITH HEAVY STORES ADAPTOR BEAMS/MULTIPLE EJECTOR RACK.

SCOPE OF PROGRAM:

	PRIOR		FY-82		FY-83		FY-84		OUTYEAR		T O T A L	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
					67	6.0					67	6.0
BASIS FOR COST ESTIMATE:												
NONRECURRING					1	.5					1	.5
KITS					66	5.0					66	5.0
DATA						.5						.5
TOTAL					67	6.0					67	6.0

METHOD OF IMPLEMENTATION: INSTALLATION - DEPOT/FIELD TEAM
LEAD TIME - 18 MONTHS

(92)

DOCUMENT TYPE

MODIFICATION OF AIRCRAFT
FY-83 PROGRAM

FY-83 APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: EMP HARDENING

MODELS OF AIRCRAFT AFFECTED: B-52 G/H

DESCRIPTION/JUSTIFICATION: MODIFIES SELECTED SYSTEMS ON B-52H AIRCRAFT TO WITHSTAND THE EFFECTS OF NUCLEAR ELECTROMAGNETIC PULSE (EMP) AND ASSOCIATED PHENOMENA.

SCOPE OF PROGRAM:

	PRIOR		FY-82		FY-83		FY-84		OUTYEAR		T O T A L	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
BASIS FOR COST ESTIMATE:							3	64.5	93	880.9	96	945.4
KITS							3	51 3	93	798.0	96	849.3
DATA								5.5		23.0		28.5
ECO								7.7		59.9		67.6
TOTAL							3	64.5	93	880.9	96	945.4

METHOD OF IMPLEMENTATION: INSTALLATION - DEPOT/FIELD TEAM
LEAD TIME - 24 MONTHS

(93)

DO NOT FY: B

MODIFICATION OF AIRCRAFT
FY-83 PROGRAM

FY-83 APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO. ENVIRONMENTAL CONTROL SYSTEM, MN-11402B

MODELS OF AIRCRAFT AFFECTED: B-52G/H

DESCRIPTION/JUSTIFICATION: UPGRADES THE EXISTING UNRELIABLE AND COSTLY ENVIRONMENTAL CONTROL SYSTE WITH A NEW TECHNOLOGY, HIGHLY RELIABLE SYSTEM. THE PRESENT SYSTEM IS VERY TROUBLESOME AND WILL BECOME UNSUPPORTABLE IN THE NEAR-TERM. THIS MOD WILL PROVIDE UPGRADED BLEED AIR TEMPERATURE REGULATION, ZONE TEMPERATURE CONTROL/CABIN AIR DISTRIBUTION. CONSISTS OF PNEUMATIC SYSTEMS PRECOOLER CONTROL SYSTEM UPDATE AND NEW ENVIRONMENTAL CONTROL UNIT (ECU).

SCOPE OF PROGRAM:

	PRIOR		FY-82		FY-83		FY-84		OUTYEAR		T O T A L	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
			42	15.9	60	17.1	64	20.1	102	35.8	268	88.9
BASIS FOR COST ESTIMATE:												
KITS			42	10.5	60	17.1	64	20.1	102	35.8	268	83.5
DATA				1.3								1.3
SUPPORT EQUIP.				4.1								4.1
TOTAL			42	15.9	60	17.1	64	20.1	102	35.8	268	88.9

METHOD OF IMPLEMENTATION. INSTALLATION - DEPOT
LEAD TIME - 24 MONTHS

DO NOT TYPE B.

MODIFICATION OF AIRCRAFT
FY-83 PROGRAM

FY-83 APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: RADAR ANTENNA UPGRADE, MM-12002B

MODELS OF AIRCRAFT AFFECTED: B-52G/H

DESCRIPTION/JUSTIFICATION: THE RADAR ANTENNA IS PROJECTED TO BE UNSUPPORTABLE BY FY 85. THIS MOD REPLACES HIGH FAILURE ANTENNA COMPONENTS AND PROVIDES A LINEAR 'K' CAPABILITY TO IMPROVE MISSION SUCCESS RATES. THE ANTENNA MOD WILL PRECEED AND BE COMPATIBLE WITH THE OVERALL RADAR UPGRADE MODIFICATION SCHEDULED FOR INITIATION AFTER COMPLETION OF DEVELOPMENT IN FY 84.

SCOPE OF PROGRAM:

	PRIOR		FY-82		FY-83		FY-84		OUTYEAR		T O T A L	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
					177	19.3	193	20.7			370	40.0
BASIS FOR COST ESTIMATE:												
KITS					177	17.3	193	20.7			370	38.0
DATA						.5						.5
SUPPORT EQUIP.						1.0						1.0
TOOLING						.5						.5
TOTAL					177	19.3	193	20.7			370	40.0

METHOD OF IMPLEMENTATION: INSTALLATION - DEPOT
LEAD TIME - 6 MONTHS

(95)

DO NOT TYPE

MODIFICATION OF AIRCRAFT
FY-83 PROGRAM

FY-83 APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: ALT-28 COOLER IMPROVEMENT, MM-18418B

MODELS OF AIRCRAFT AFFECTED: B-52 G/H

DESCRIPTION/JUSTIFICATION: THREE ITEMS ARE CONTRIBUTING TO LOW RELIABILITY OF THE AN/ALT-28 COUNTERMEASURES SYSTEM: RING AND SEAL ASSY RETAINING DIELECTRIC FLUID, RELAYS, AND BUILT-IN FAULT CIRCUITRY RESPONDING TO SPURIOUS SIGNALS OR TEMPORARY OVERLOADS. THIS MOD REPLACES T DYNAMIC SEAL AND PUMP ASSEMBLY, THE MECHANICAL RELAYS AND IMPROVES FAULT CIRCUITRY TO IMPRO ALT-28 RELIABILITY AND ENHANCE MISSION OPERATION.

SCOPE OF PROGRAM:

	PRIOR		FY-82		FY-83		FY-84		OUTYEAR		T O T A L	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COS
	169	10.7	66	4.5	73	5.0	39	2.9			347	23
BASIS FOR COST ESTIMATE:												
NONRECURRING	3	1.3									3	1
KITS	166	8.4	66	4.5	73	4.1	39	2.8			344	19
DATA		.5						.1				
SUPPORT EQUIP.		.5				.4						
SIMULATOR MODS						.5						
TOTAL	169	10.7	66	4.5	73	5.0	39	2.9			347	23

METHOD OF IMPLEMENTATION: INSTALLATION - DEPOT
LEAD TIME - 18 MONTHS

(96)

MODIFICATION OF AIRCRAFT
FY-83 PROGRAM

FY-83 APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: FUEL QUANTITY INDICATING SYSTEM, MM-18421B

MODELS OF AIRCRAFT AFFECTED: B-52G/H

DESCRIPTION/JUSTIFICATION: REPLACES THE FUEL QUANTITY INDICATORS WITH SOLID STATE UNITS; REPLACE THE PROBES WITH FULL HEIGHT COMPENSATED TANK UNITS; AND, REPLACES ALL FUEL QUANTITY SYSTEM WIRING. THE PROBES AND WIRING HAVE SERIOUSLY DETERIORATED AND WILL BE UNSUPPORTABLE IN THE NEAR TERM. EXCESSIVE MAINTENANCE COSTS ARE BEING INCURRED IN REPAIRING THE EXISTING SYSTEM

SCOPE OF PROGRAM:

	PRIOR		FY-82		FY-83		FY-84		OUTYEAR		T O T A L	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COS
			42	10.6	60	19.3	64	17.1	102	23.2	268	70
BASIS FOR COST ESTIMATE:												
NONRECURRING			2	3.0							2	3
KITS			40	6.6	60	10.1	64	12.7	102	22.6	266	52
DATA				.6		1.5				.6		2
TRAINER				.1		5.7		2.4				8
SUPPORT EQUIP.				.3		2.0		2.0				4
TOTAL			42	10.6	60	19.3	64	17.1	102	23.2	268	70

METHOD OF IMPLEMENTATION: INSTALLATION - DEPOT
LEAD TIME - 20 MONTHS

197

MODIFICATION OF AIRCRAFT
FY-83 PROGRAM

FY-83 APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: MODERNIZE DEFENSIVE FIRE CONTROL, MM-61050B

MODELS OF AIRCRAFT AFFECTED: B-52G

DESCRIPTION/JUSTIFICATION: THE FAILURE RATE OF THE ASG-15 FIRE CONTROL SYSTEM IS INCREASING RAPID AS WELL AS THE CONDEMNATION RATE OF THE COMPONENTS. THIS RESULTS IN HIGH LOGISTICS SUPPORT COSTS. THIS MODIFICATION WILL REDUCE THE NUMBER OF LINE REPLACEABLE UNITS, UPDATE THE SYSTE TO CURRENT TECHNOLOGY, AND PROVIDE LOGISTICALLY SUPPORTABLE SYSTEMS. THE IMPROVED PERFORMAN WILL ENHANCE MISSION ACCOMPLISHMENT.

SCOPE OF PROGRAM:

	PRIOR		FY-82		FY-83		FY-84		OUTYEAR		T O T A L	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
					1	2.0	5	9.0	166	163.8	172	174.
BASIS FOR COST ESTIMATE:												
NONRECURRING					1	2.0	5	9.0			6	11.
KITS									166	141.8	166	141.
DATA										4.8		4.
TRAINER										5.5		5.
SUPPORT EQUIP.										11.7		11.
TOTAL					1	2.0	5	9.0	166	163.8	172	174.

METHOD OF IMPLEMENTATION: INSTALLATION - ORG/INTERMEDIATE
LEAD TIME - 12 MONTHS

(98)

MODIFICATION OF AIRCRAFT
FY-83 PROGRAM

FY-83 APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: RADAR UPGRADE

MODELS OF AIRCRAFT AFFECTED: B-52 G/H

DESCRIPTION/JUSTIFICATION: WILL UPGRADE EXISTING RADAR BY REPLACING OUTDATED, UNRELIABLE ITEMS W
SOLID-STATE COMPONENTS. AN INTERIM MODIFICATION AND SPECIAL SUPPORT ACTIONS ARE REQUIRED T
ASSURE RADAR SUPPORT BEYOND FY 85. MODIFICATION IS DRIVEN BY R&M/SUPPORT REQUIREMENTS; SOM
ACCURACY AND RESOLUTION IMPROVEMENTS WILL ACCRUE DUE TO UPDATED COMPONENTS.

SCOPE OF PROGRAM:

	PRIOR		FY-82		FY-83		FY-84		OUTYEAR		T O T A L	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COS
							30	52.1	236	346.5	266	398
BASIS FOR COST ESTIMATE:												
KITS							30	32.3	236	328.8	266	361
TRAINER								6.6		6.6		13
SUPPORT EQUIP.								6.6		4.5		11
SIMULATOR MODS								6.6		6.6		13
TOTAL							30	52.1	236	346.5	266	398

METHOD OF IMPLEMENTATION: INSTALLATION - DEPOT
LEAD TIME - 20 MONTHS

(99)

MODIFICATION OF AIRCRAFT
FY-83 PROGRAM

FY-83 APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: TF-41 HOT SECTION, MM-114076

MODELS OF AIRCRAFT AFFECTED: A-7D/TF-41 ENGINE

DESCRIPTION/JUSTIFICATION: THE TF-41 HAS HAD SERIOUS PROBLEMS WITH FAILURES IN THE HOT SECTION, MANY CASES DIRECTLY RELATED TO THE SECOND-STAGE HIGH PRESSURE TURBINE BLADE. NUMEROUS FAILURES HAVE RESULTED IN A SAFETY-OF-FLIGHT PROBLEM AND GROUNDING OF AIRCRAFT WHILE THE ENGINE WAS FORCED INTO THE OVERHAUL LINE. THIS MODIFICATION PROVIDES A LONG TERM CORRECTIO FOR THE HIGH PRESSURE TURBINE FAILURES BY REDESIGNING HPT-1 AND HPT-2 BLADES AND INTRODUCES THREE-CHANNEL HPT-1 WHEEL.

SCOPE OF PROGRAM:

	PRIOR		FY-82		FY-83		FY-84		OUTYEAR		T O T A L	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COS
			80	12.5	180	23.6	180	24.8	100	22.2	540	83
BASIS FOR COST ESTIMATE:												
KITS			80	9.7	180	23.6	180	24.8	100	22.2	540	80
SUPPORT EQUIP.				.4								
TOOLING				2.4								2
TOTAL			80	12.5	180	23.6	180	24.8	100	22.2	540	83

METHOD OF IMPLEMENTATION: INSTALLATION - DEPOT
LEAD TIME - 33 MONTHS

(100)

MODIFICATION OF AIRCRAFT
FY-83 PROGRAM

FY-83 APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: DIGITAL SCAN CONVERTER, MN-11602B

MODELS OF AIRCRAFT AFFECTED: A-7D

DESCRIPTION/JUSTIFICATION: MODIFICATION WILL REPLACE TWO LINE REPLACEABLE UNITS (LRU) WITH THE DIGITAL SCAN CONVERTER. THE AN/APQ-126 RADAR DISPLAY SUB-GROUP INSTALLED IN A-7D AIRCRAFT I EXPERIENCING A LOW MEAN TIME BETWEEN FAILURE (MTBF) RELIABILITY OF 80 HOURS. THE COMBINED MTBF OF THE PROPOSED DIGITAL SCAN CONVERTER GROUP IS 500 HOURS BASED ON MORE THAN TWO YEARS FLYING IN AN OPERATIONAL ENVIRONMENT.

SCOPE OF PROGRAM:

	PRIOR		FY-82		FY-83		FY-84		OUTYEAR		T O T A L	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
	78	10.5	99	16.2	97	15.4	85	9.4			359	51.
BASIS FOR COST ESTIMATE:												
NONRECURRING	1	3.4		.7							1	4.
KITS	77	6.5	99	11.3	97	11.4	85	9.4			358	38.
DATA		.6		1.2								1.
TRAINER				.5								.
SUPPORT EQUIP.				2.5		4.0						6.
TOTAL	78	10.5	99	16.2	97	15.4	85	9.4			359	51.

METHOD OF IMPLEMENTATION: INSTALLATION - ORG/INTERMEDIATE
LEAD TIME - 18 MONTHS

MODIFICATION OF AIRCRAFT
FY-83 PROGRAM

FY-83 APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: INERTIAL NAVIGATION SYSTEM (INS), MN-3048

MODELS OF AIRCRAFT AFFECTED: A-10

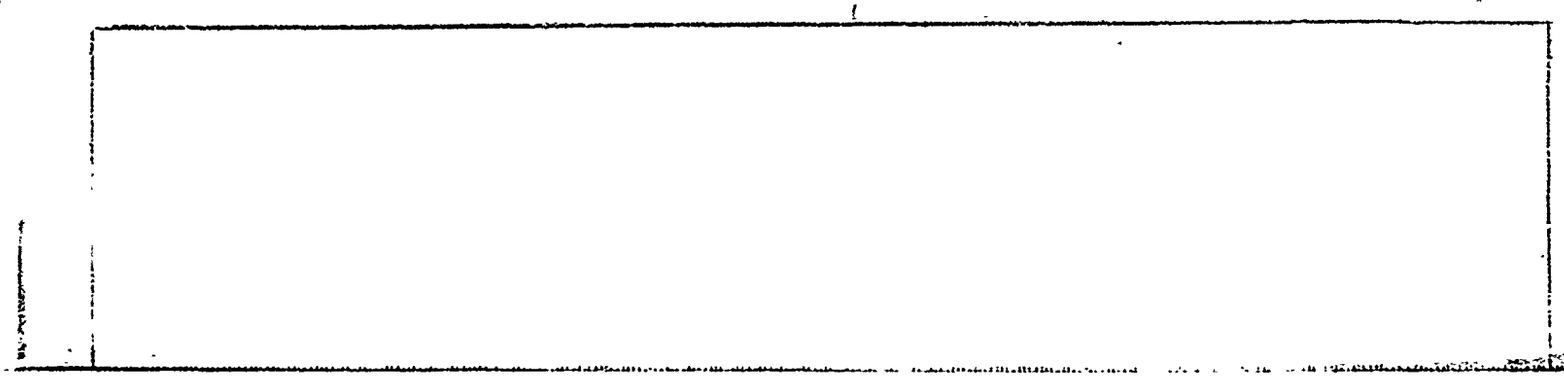
DESCRIPTION/JUSTIFICATION: INS WILL PROVIDE AN AUTONOMOUS NAVIGATION CAPABILITY. LOW LEVEL TACTIC
IMPOSED BY COMBAT ENVIRONMENT PRECLUDES RELIANCE ON EXTERNAL NAVIGATIONAL AIDS. EUROPEAN
TERRAIN AND WEATHER DICTATE AUTONOMOUS CAPABILITY IN TACTICAL SITUATIONS. A-10 NAVIGATION
REQUIREMENT DOCUMENTED IN OPERATIONAL EVALUATIONS

SCOPE OF PROGRAM:

	PRIOR		FY-82		FY-83		FY-84		OUTYEAR		T O T A L	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
	61	26.8	73	28.6	140	54.0	126	55.3			400	164.7
BASIS FOR COST ESTIMATE:												
NONRECURRING	1	3.5									1	3.5
KITS	60	22.8	73	28.6	140	54.0	126	55.3			399	160.7
DATA		.5										.5
TOTAL	61	26.8	73	28.6	140	54.0	126	55.3			400	164.7

METHOD OF IMPLEMENTATION: INSTALLATION - DEPOT
LEAD TIME - 24 MONTHS

(102)



MODIFICATION OF AIRCRAFT
FY-83 PROGRAM

FY-83 APPROPRIATION. AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: SEEK TALK

MODELS OF AIRCRAFT AFFECTED: A-10 A/B

DESCRIPTION/JUSTIFICATION.

SEEK TALK PROVIDES AN ADVANCED TECHNOLO
JAM-RESISTANT UHF VOICE COMMUNICATION SYSTEM LESS SENSITIVE TO THE EVOLUTION OF JAMMING TECHNIQU
TO PROVIDE A JAM-RESISTANT CAPABILITY SATISFYING THE URGENT OPERATIONAL REQUIREMENT.

SCOPE OF PROGRAM:

	PRIOR		FY-82		FY-83		FY-84		OUTYEAR		T O T A L	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
	---	----	---	----	---	----	---	----	---	----	-----	-----
							165	46.6	476	95.9	641	142.5
BASIS FOR COST ESTIMATE:												
KITS							165	38.5	476	78.8	641	123.1
DATA								.7		6.3		7.0
SUPPORT EQUIP.								1.6		10.8		12.4
TOTAL							165	46.6	476	95.9	641	142.5

METHOD OF IMPLEMENTATION: INSTALLATION - DEPOT
LEAD TIME - 24 MONTHS

(103)



MODIFICATION OF AIRCRAFT
FY-83 PROGRAM

FY-83 APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: OUTER WING FATIGUE RESKIN, MM-10338B

MODELS OF AIRCRAFT AFFECTED: A-10A

DESCRIPTION/JUSTIFICATION: DURING ACCELERATED TESTING TO DETERMINE FATIGUE LIMITS OF THE AIRFRAME A MAJOR FAILURE OCCURRED ON THE LEFT TEST WING. THE LOWER SKIN, 25 INCHES OUT-BOARD OF THE LANDING GEAR POD, COMPLETELY FAILED FROM THE FRONT SPAR TO THE REAR SPAR, ALONG WITH ALL THR LOWER SPAR CAPS AND THE UPPER FRONT SPAR CAP. THE INCIDENT OCCURRED DURING AN EXTENDED TEST PROGRAM TO 2.3 LIFETIMES (13,800 HRS).

SCOPE OF PROGRAM:

	PRIOR		FY-82		FY-83		FY-84		OUTYEAR		T O T A L	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
	79	10.7	60	4.9	92	6.1	92	6.7	98	7.1	421	35.
BASIS FOR COST ESTIMATE:												
NONRECURRING	2	1.4									2	1.
KITS	77	5.9	60	3.9	92	6.1	92	6.7	98	7.1	419	29.
DATA		.2										.
TOOLING		3.2		1.0								4.
TOTAL	79	10.7	60	4.9	92	6.1	92	6.7	98	7.1	421	35.

METHOD OF IMPLEMENTATION: INSTALLATION - DEPOT
LEAD TIME - 12 MONTHS

(104)

MODIFICATION OF AIRCRAFT
FY-83 PROGRAM

FY-83 APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: ENVIRONMENTAL CONTROL SYSTEM CAPACITY, MM-10340B

MODELS OF AIRCRAFT AFFECTED: A-10A

DESCRIPTION/JUSTIFICATION: AS A RESULT OF NUMEROUS COMPLAINTS, SERVICE REPORTS AND HUMAN FACTORS TESTING , AN INCREASED COOLING CAPACITY FOR THE COCKPIT DURING GROUND OPERATIONS AND LOW LEVE FLIGHT IS REQUIRED. HIGHER A-10 COCKPIT TEMPERATURES ADD TO PILOT FATIGUE AND IN THE LOW ALTITUDE ENVIRONMENT IN WHICH THE A-10 OPERATES, IT IS CONSIDERED A SAFETY PROBLEM. A SECOND IDENTICAL COOLING UNIT WILL BE ADDED. THE COCKPIT DUCTING WILL BE REVISED TO ALLOW SEPARATE COOLING OF COCKPIT ELECTRONICS AND THE AIRCREW.

SCOPE OF PROGRAM:

	PRIOR		FY-82		FY-83		FY-84		OUTYEAR		T O T A L	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
			79	3.8	120	3.0	120	3.2	236	6.8	555	16.8
BASIS FOR COST ESTIMATE:												
NONRECURRING			1	1.3							1	1.3
KITS			78	1.8	120	3.0	120	3.2	236	6.8	554	14.8
DATA				.1								.
TRAINER				.6								.6
TOTAL			79	3.8	120	3.0	120	3.2	236	6.8	555	16.8

METHOD OF IMPLEMENTATION: INSTALLATION - DEPOT
LEAD TIME - 12 MONTHS

MODIFICATION OF AIRCRAFT
FY-83 PROGRAM

FY-83 APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: STABILITY AUGMENTATION SYSTEM (SAS), MN-10341B

MODELS OF AIRCRAFT AFFECTED: A-10A

DESCRIPTION/JUSTIFICATION: PILOTS HAVE REPORTED THAT WITH THE PRESENT SAS, IT IS EXTREMELY DIFFICULT TO MAKE ACCURATE AZIMUTH CORRECTIONS DURING WEAPONS DELIVERY. SLOW, SMOOTH INPUTS HELP TO ALLEVIATE THIS PROBLEM, BUT THIS REQUIRES LONGER TARGET TRACKING TIMES WHICH ADVERSE IMPACT VULNERABILITY UNDER COMBAT CONDITIONS. AN IMPROVED SAS DESIGN HAS BEEN SUCCESSFULLY FLIGHT TESTED AND IS EFFECTIVE FOR CONTINUED WEAPON DELIVERY CAPABILITY AND MISSION EFFECTIVENESS.

SCOPE OF PROGRAM:

	PRIOR		FY-82		FY-83		FY-84		OUTYEAR		T O T A L	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
	95	6.8			49	4.0	54	3.5			198	14.
BASIS FOR COST ESTIMATE:												
NONRECURRING	2	.7			1	.5					3	1.
KITS	93	5.1			48	2.9	54	3.5			195	11.
TRAINER		.5				.1						.
SUPPORT EQUIP.		.5				.5						1.
TOTAL	95	6.8			49	4.0	54	3.5			198	14.

METHOD OF IMPLEMENTATION: INSTALLATION - DEPOT
LEAD TIME - 9 MONTHS

MODIFICATION OF AIRCRAFT
FY-83 PROGRAM

FY-83 APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: CORRECT ALR 69 DEFICIENCIES, MN-10349C

MODELS OF AIRCRAFT AFFECTED: A-10

DESCRIPTION/JUSTIFICATION: THE ALR-69 RADAR WARNING SYSTEM INSTALLED IN THE EARLY A-10S HAS NUMEROUS OPERATIONAL PERFORMANCE DEFICIENCIES WHICH SERIOUSLY DEGRADE THE SURVIVABILITY OF A-10 IN A COMBAT ENVIRONMENT. SEVERAL IMPROVEMENTS TO BOTH THE AIRCRAFT AND THE RADAR WARN RECEIVER WHICH HAS BEEN INCORPORATED INTO PRODUCTION WILL RESOLVE THESE DEFICIENCIES.

SCOPE OF PROGRAM:

	PRIOR		FY-82		FY-83		FY-84		OUTYEAR		T O T A L	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COS
			90	2.0	191	6.0	245	7.7			526	15
BASIS FOR COST ESTIMATE:												
KITS			90	1.9	191	6.0	245	7.7			526	15
TRAINER				.1								
TOTAL			90	2.0	191	6.0	245	7.7			526	15

METHOD OF IMPLEMENTATION: INSTALLATION - DEPOT/FIELD TEAM
LEAD TIME - 18 MONTHS

(107)

MODIFICATION OF AIRCRAFT
FY-83 PROGRAM

FY-83 APPROPRIATION. AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: TURBINE ENGINE MONITORING SYSTEM, MM-11305M

MODELS OF AIRCRAFT AFFECTED: A-10

DESCRIPTION/JUSTIFICATION: THE TURBINE ENGINE MONITORING SYSTEM SELECTIVELY MONITORS ENGINE PERFORMANCE WHICH IS ULTIMATELY USED TO DETERMINE OUT OF TOLERANCE CONDITIONS. ANTICIPATED BENEFITS INCLUDE INCREASED AVAILABILITY AND MAINTENANCE EFFICIENCY, INCREASED DATA HANDLING EFFICIENCY, REDUCED LOGISTICS SUPPORT COST, AND IMPROVED ENGINE MANAGEMENT. THE T-33 ENGINE HEALTH MONITORING SYSTEM HAS BEEN MODIFIED FOR A-10 USAGE.

SCOPE OF PROGRAM:

	PRIOR		FY-82		FY-83		FY-84		OUTYEAR		T O T A L	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
	16	2.3	7	1.0			125	36.5	568	112.2	716	152.
BASIS FOR COST ESTIMATE:												
NONRECURRING								1.0				1.
KITS	16	2.3	7	1.0			125	20.2	568	112.2	716	135.
DATA								.5				.
TRAINER								6.7				6.
SUPPORT EQUIP.								6.1				6.
TOOLING								2.0				2.
TOTAL	16	2.3	7	1.0			125	36.5	568	112.2	716	152.

METHOD OF IMPLEMENTATION: INSTALLATION - DEPOT
LEAD TIME - 12 MONTHS

MODIFICATION OF AIRCRAFT
FY-83 PROGRAM

FY-83 APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: FUEL FOAM FIRES, MH-11316A

MODELS OF AIRCRAFT AFFECTED: A-10A

DESCRIPTION/JUSTIFICATION: FUEL FOAM CHARRING INCIDENTS HAVE BEEN EXPERIENCED IN AIRCRAFT CONTAINING BLUE AND RED FOAM. TESTS HAVE INDICATED THE NEED FOR FLAME ARRESTERS IN ALL FUEL VENT LINES. THIS WILL STOP THE PROPAGATION OF A FLAME FRONT INTO THE FUEL TANKS.

SCOPE OF PROGRAM:

	PRIOR		FY-82		FY-83		FY-84		OUTYEAR		T O T A L	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
					104	3.5	416	2.3	200	1.2	720	7.
BASIS FOR COST ESTIMATE:												
NONRECURRING						2.4						2.
KITS					104	.6	416	2.3	200	1.2	720	4.
DATA						.5						
TOTAL					104	3.5	416	2.3	200	1.2	720	7

METHOD OF IMPLEMENTATION: INSTALLATION - ORG/INTERMEDIATE
LEAD TIME - 12 MONTHS

(109

MODIFICATION OF AIRCRAFT
FY-83 PROGRAM

FY-83 APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: LUBRICATION SYSTEM REDESIGN, MM-21110A

MODELS OF AIRCRAFT AFFECTED: A-10A

DESCRIPTION/JUSTIFICATION: IMPROVED OIL CAP AND FILLER TUBE DESIGN INSURES POSITIVE LOCKING OF LUBRICATION SYSTEM THIS PREVENTS IMPROPER INSTALLATION AND POSSIBLE IN-FLIGHT LUBE OIL LO WITH SUBSEQUENT ENGINE FA URE. THIS MUST BE CORRECTED TO REMOVE A SAFETY HAZARD.

SCOPE OF PROGRAM:

	PRIOR		FY-82		FY-83		FY-84		OUTYEAR		T O T A L	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
	---	----	---	----	---	----	---	----	---	----	-----	----
					410	2.0	300	1.4			710	3.
BASIS FOR COST ESTIMATE:												
KITS					410	2.0	300	1.4			710	3.
TOTAL					410	2.0	300	1.4			710	3.

METHOD OF IMPLEMENTATION: INSTALLATION - ORG/INTERMEDIATE
LEAD TIME - 12 MONTHS

(110)

MODIFICATION OF AIRCRAFT
FY-83 PROGRAM

FY-83 APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: PANEL REDESIGN, MM-31071A

MODELS OF AIRCRAFT AFFECTED: A-10A

DESCRIPTION/JUSTIFICATION: CORROSION AND PANEL BUCKLING HAS CAUSED FASTENERS TO PULL THROUGH ACCE PANELS. THIS CONDITION LE.DS TO ENGINE FOD POTENTIAL AND WATER INSTRUSION INTO ELECTRONIC COMPONENTS. PANELS WERE REDESIGNED AND INCORPORATED INTO PRODUCTION AIRCRAFT 333 AND ABOVE. THE EARLIER CONFIGURED DOORS WILL NOW BE REPLACED WITH THE LATEST CONFIGURATION.

SCOPE OF PROGRAM:

	PRIOR		FY-82		FY-83		FY-84		OUTYEAR		T O T A L	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
					54	9.5	96	10.7	180	22.5	330	42.
BASIS FOR COST ESTIMATE:												
NONRECURRING					2	3.8					2	3.
KITS					52	5.5	96	10.7	180	22.5	328	38.
DATA						.1						.
TOOLING						.1						.
TOTAL					54	9.5	96	10.7	180	22.5	330	42.

METHOD OF IMPLEMENTATION: INSTALLATION - DEPOT
LEAD TIME - 12 MONTHS

DO NOT TYPE

MODIFICATION OF AIRCRAFT
FY-83 PROGRAM

FY-83 APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: APS-107 RWR REPLACEMENT, MN-2952

MODELS OF AIRCRAFT AFFECTED: F-4D

DESCRIPTION/JUSTIFICATION:

THIS MODIFICATION REPLACES THE APS-107 WITH THE ALR-69 CURRENTLY INSTALLED IN OTHER AIR FORCE AIRCRAFT. THIS PROVIDES THE LATEST OPERATIONAL THREAT WARNING CAPABILITY. FUNDING ALSO SUPPORTS DEPOT SUPPORT EQUIPMENT FOR THE ALR-69. SURVIVABILITY OF THE F-4D IS SIGNIFICANTLY IMPROVED BY PROVIDING SUFFICIENT WARNING TO ALLOW PROPER TIMING FOR TACTICS, CHAFF, FLARES, AND JAMMING.

SCOPE OF PROGRAM:

	PRIOR		FY-82		FY-83		FY-84		OUTYEAR		T O T A L	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
BASIS FOR COST ESTIMATE:	197	44.5		5.6		7.0	115	18.0	108	12.2	420	87.
NONRECURRING												
KITS	197	44.5					115	18.0	108	12.2	420	74.
SUPPORT EQUIP.				5.6		7.0						12.
TOTAL	197	44.5		5.6		7.0	115	18.0	108	12.2	420	87.

METHOD OF IMPLEMENTATION: INSTALLATION - DEPOT/DFT
LEAD TIME - 18 MONTHS

112

MODIFICATION OF AIRCRAFT
FY-83 PROGRAM

FY-83 APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: VINSON TAC SECURE VOICE, MM-3025

MODELS OF AIRCRAFT AFFECTED: F/RF-4

DESCRIPTION/JUSTIFICATION: VINSON SECURE VOICE PROVIDES ON-LINE ENCRYPTION/DECRYPTION OF VHF/UHF AM/FM RADIOS FOR CLASSIFICATION OF TRAFFIC. THE ENCRYPTION DEVICE IS DESIGNED FOR OPERATION IN AIRCRAFT INSTRUMENT PANELS OR RADIO-CONSOLE CONTROL PANELS, OR IT MAY BE LOCATED IN EQUIPMENT BAYS AND OPERATED BY A REMOTE CONTROL UNIT (RCU).

SCOPE OF PROGRAM:

	PRIOR		FY-82		FY-83		FY-84		OUTYEAR		T O T A L	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
			307	7.1	420	3.1	439	3.6	388	3.5	1554	17.3
BASIS FOR COST ESTIMATE:												
NONRECURRING			5	1.4							5	1.4
KITS			302	2.1	420	3.1	439	3.6	388	3.5	1549	12.3
DATA				3.1								3.1
TRAINER				.5								.5
TOTAL			307	7.1	420	3.1	439	3.6	388	3.5	1554	17.3

METHOD OF IMPLEMENTATION: INSTALLATION - DEPOT/FIELD TEAM
LEAD TIME - 12 MONTHS

(113)

DO NOT TYPE BELOW THIS LINE

MODIFICATION OF AIRCRAFT
FY-83 PROGRAM

FY-83 APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: ALR-74 RWR UPDATE, MM-3052

MODELS OF AIRCRAFT AFFECTED: F-4E

DESCRIPTION/JUSTIFICATION: UPGRADES THE RADAR WARNING CAPABILITY TO PROVIDE THREAT WARNING OF ALL EXISTING AND PROJECTED THREATS INTO THE 1990's. SPECIFICALLY, ADDS CAPABILITY TO DETECT

ALR-46 RADAR WARNING RECEIVER (RWR) SYSTEMS REMOVED FROM THE F-4E WILL BE USED TO SUPPORT AIRCRAFT WHICH FACE A MORE LIMITED THREAT DENSITY AND CURRENTLY HAVE NO RWR CAPABILITY. RADAR WARNING IMPROVES AIRCRAFT SURVIVABILITY BY PROVIDING TIMING CUES FOR TACTICS, CHAFF, FLARES, AND JAMMING.

SCOPE OF PROGRAM:

	PRIOR		FY-82		FY-83		FY-84		OUTYEAR		T O T A L	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
			2	6.5	50	48.8	150	65.5	280	105.3	482	226
BASIS FOR COST ESTIMATE:												
KITS			2	6.5	50	15.0	150	49.0	280	103.2	482	173
DATA						8.5		.2				8
TRAINER						8.0		5.8				13
TOOLING						12.5						12
SUPPORT EQUIP.						4.8		10.5		2.1		17
TOTAL			2	6.5	50	48.8	150	65.5	280	105.3	482	226

METHOD OF IMPLEMENTATION: INSTALLATION - DEPOT/FIELD TEAM
LEAD TIME - 16 MONTHS

DO NOT TYPE BEY... ...ES

MODIFICATION OF AIRCRAFT
FY-83 PROGRAM

FY-83 APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: LOW-SMOKE ENGINES

MODELS OF AIRCRAFT AFFECTED: F/RF-4

DESCRIPTION/JUSTIFICATION: IMPROVES AIRCRAFT EFFECTIVENESS AND SURVIVABILTY BY MODIFYING J-79 ENGINES TO THE LOW SMOKE CONFIGURATION. INCLUDES SMOKELESS COMBUSTOR AND MODIFICATIONS TO LINER, FUEL NOZZLE, HIGH ENERGY IGNITION AND COMPRESSOR REAR FRAME.

SCOPE OF PROGRAM:

	PRIOR		FY-82		FY-83		FY-84		OUTYEAR		T O T A L	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
	---	----	---	----	---	----	---	----	---	----	-----	-----
			373	15.3	659	27.7	733	30.9	1743	79.5	3508	153.4
BASIS FOR COST ESTIMATE:												
NONRECURRING				.5								.5
KITS			373	14.6	659	27.7	733	30.9	1743	79.5	3508	152.7
DATA				.2								.2
TOTAL			373	15.3	659	27.7	733	30.9	1743	79.5	3508	153.4

METHOD OF IMPLEMENTATION: INSTALLATION - DEPOT
LEAD TIME - 9 MONTHS

(115)

MODIFICATION OF AIRCRAFT
FY-83 PROGRAM

FY-83 APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: RECONFIGURE F-4E TO G

MODELS OF AIRCRAFT AFFECTED: F-4E

DESCRIPTION/JUSTIFICATION: PROVIDES FUNDS TO RESTORE F-4G WILD WEASEL ASSETS TO THE PROGRAMMED FORCE STRUCTURE LEVEL THROUGH 1992 BY MODIFYING 18 ADDITIONAL F-4E TO THE F-4G CONFIGURATION. USING BLOCK 42-45 F-4E AIRCRAFT THE MODIFICATION INCLUDES INSTALLATION OF THE ARN-101 INERTIA NAVIGATION SYSTEM AND THE APR-38 HOMING AND WARNING SYSTEM WITH PERFORMANCE UPDATES INCLUDED.

SCOPE OF PROGRAM:

	PRIOR		FY-82		FY-83		FY-84		OUTYEAR		T O T A L	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
	---	----	---	----	---	----	---	----	---	----	-----	-----
							6	29.8	12	59.0	18	88.8
BASIS FOR COST ESTIMATE:												
KITS							6	29.8	12	59.0	18	88.8
	----	-----	----	-----	----	-----	----	-----	----	-----	-----	------
TOTAL							6	29.8	12	59.0	18	88.8

METHOD OF IMPLEMENTATION: INSTALLATION - DEPOT
LEAD TIME - 35 MONTHS

MODIFICATION OF AIRCRAFT
FY-83 PROGRAM

FY-83 APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: MARK XII IFF IMPROVEMENTS

MODELS OF AIRCRAFT AFFECTED: F-4

DESCRIPTION/JUSTIFICATION: ELECTRONIC COUNTER MEASURE TESTING HAS IDENTIFIED SEVERAL SERIOUS DEFICIENCIES WITH THE AN/APX 76 AND KY-532 INTERROGATORS AND TRANSPONDERS INSTALLED IN THE AIRCRAFT. THIS MODIFICATION IS NEEDED TO CORRECT THESE DEFICIENCIES AND IMPROVE THE PERFORMANCE OF THIS EQUIPMENT IN AN ECM ENVIRONMENT.

SCOPE OF PROGRAM:

	PRIOR		FY-82		FY-83		FY-84		OUTYEAR		T O T A L	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
							650	2.6	906	2.7	1556	5
BASIS FOR COST ESTIMATE:												
NONRECURRING								.5				
KITS							650	2.0	906	2.7	1556	4
DATA								.1				
TOTAL							650	2.6	906	2.7	1556	5

METHOD OF IMPLEMENTATION: INSTALLATION - CONTRACTOR/FIELD TEAM
LEAD TIME - 12 MONTHS

DO NOT TYPE

MODIFICATION OF AIRCRAFT
FY-83 PROGRAM

FY-83 APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: WILD WEASEL EXPANDED DATA CAPABILITY

MODELS OF AIRCRAFT AFFECTED: F-4G

DESCRIPTION/JUSTIFICATION: THE CURRENT F-4G MEMORY CANNOT ACCEPT AN UPGRADE IN CAPABILITY TO MEE
ADVANCING THREATS. THE MEMORY CAPABILITY WILL BE INCREASED THREEFOLD TO ALLOW FOR GROWTH I
FREQUENCY COVERAGE AND ADVANCED THREAT ACQUISITION.

SCOPE OF PROGRAM:

	PRIOR		FY-82		FY-83		FY-84		OUTYEAR		T O T A L	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
							107	44.5			107	44
BASIS FOR COST ESTIMATE:												
KITS							107	44.5			107	44
TOTAL							107	44.5			107	44

METHOD OF IMPLEMENTATION: INSTALLATION - ORG/INTERMEDIATE
LEAD TIME - 12 MONTHS

MODIFICATION OF AIRCRAFT
FY-83 PROGRAM

FY-83 APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: WW PERFORMANCE UPDATE

MODELS OF AIRCRAFT AFFECTED: F-4G

DESCRIPTION/JUSTIFICATION: PROGRAM EXTENDS THE FREQUENCY COVERAGE, AND ALLOWS FOR ADVANCED THREAT ACQUISITION WHILE INCREASING THE RELIABILITY AND MAINTAINABILITY OF THE F-4G/APR-38 SYSTEM. THESE IMPROVEMENTS ARE NECESSARY TO STAY ABREAST WITH THE IMPROVING THREAT.

SCOPE OF PROGRAM:

	PRIOR		FY-82		FY-83		FY-84		OUTYEAR		T O T A L	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
							1	19.6	106	110.3	107	129.
BASIS FOR COST ESTIMATE:												
NONRECURRING							1	5.0			1	5.
KITS									106	94.0	106	94.
DATA								5.0		5.3		10.
SUPPORT EQUIP.								9.6		11.0		20.
TOTAL							1	19.6	106	110.3	107	129.

METHOD OF IMPLEMENTATION: INSTALLATION - ORG/INTERMEDIATE
LEAD TIME - 12 MONTHS

DO NOT TYPE BELOW THIS LINE

MODIFICATION OF AIRCRAFT
FY-83 PROGRAM

FY-83 APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: HARM INTEGRATION

MODELS OF AIRCRAFT AFFECTED: F-4G

DESCRIPTION/JUSTIFICATION: THIS MODIFICATION PROVIDES FOR THE INTEGRATION OF THE AGM-88 HARM AND THE F-4G AIRCRAFT. THE PROGRAM CONSISTS OF ACQUISITION AND INSTALLATION OF PYLON CABLES, ATTACH POINT BRACKETS, SUPPORT EQUIPMENT AND UPDATE OF THE F-4G WEAPON SYSTEM TRAINERS. EAC AIRCRAFT WILL HAVE THE CAPABILITY OF CARRYING 4 AGM-88 HARM MISSILES

SCOPE OF PROGRAM:

	PRIOR		FY-82		FY-83		FY-84		OUTYEAR		T O T A L	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
					15	5.3	72	5.8	20	4.1	107	15.
BASIS FOR COST ESTIMATE:												
NONRECURRING						.6						.
KITS					15	.7	72	2.4	20	1.1	107	4.
DATA						.8						.
TRAINER										.2		.
SUPPORT EQUIP.						.2		.2				.
LAUNCHERS						3.0		3.2		2.8		9.
TOTAL					15	5.3	72	5.8	20	4.1	107	15.

METHOD OF IMPLEMENTATION: INSTALLATION - ORG/INTERMEDIATE
LEAD TIME - 9 MONTHS

MODIFICATION OF AIRCRAFT
FY-83 PROGRAM

FY-83 APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: REWORK OUTER WING, MM-10510A

MODELS OF AIRCRAFT AFFECTED: F/RF-4

DESCRIPTION/JUSTIFICATION: REWORK THE OUTER WING TO BEEF-UP AREAS WHERE FATIGUE CRACKS HAVE OCCURRED. REPLACE OUTER WING SKIN AND STRUCTURAL COMPONENTS ON F-4C, D AND RF-4C UNSLATTED AIRCRAFT. ON F-4E/G SLATTED AIRCRAFT, OUTER WING PANEL LOWER SKIN HOLES WILL BE OVERSIZED O DAMAGED HOLES WILL BE REAMED AND NEW FASTENERS INSTALLED. THIS IS TO PREVENT LOSS OF OUTER WING FROM FATIGUE FAILURE OF OUTER WING COMPONENTS.

SCOPE OF PROGRAM:

	PRIOR		FY-82		FY-83		FY-84		OUTYEAR		T O T A L	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
			102	9.9	503	17.7	408	14.2	498	17.5	1511	59.
BASIS FOR COST ESTIMATE:												
NONRECURRING			5	1.3							5	1.
KITS			97	2.5	503	17.7	408	14.2	498	17.5	1506	51.
DATA				.3								.
TOOLING				1.2								1.
MOD OF SPARES				4.6								4.
TOTAL			102	9.9	503	17.7	408	14.2	498	17.5	1511	59.

METHOD OF IMPLEMENTATION: INSTALLATION - DEPOT/FIELD TEAM
LEAD TIME - 24 MONTHS

MODIFICATION OF AIRCRAFT
FY-83 PROGRAM

FY-83 APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: INERTIAL NAVIGATION SYSTEM, MN-19501B

MODELS OF AIRCRAFT AFFECTED: F-4G

DESCRIPTION/JUSTIFICATION: THE OPERATIONAL READINESS OF THE F-4G IS DEGRADED BY LOW RELIABILITY O
THE PRESENT INERTIAL NAVIGATION ATTACK SYSTEM. REPLACEMENT OF THE INERTIAL NAVIGATION AND
WEAPON DELIVERY SYSTEM WILL ENHANCE OPERATIONAL CAPABILITIES THROUGH INCREASED RELIABILITY A
MAINTANABILITY RESULTING IN INCREASED WEAPON SYSTEM AVAILABILITY.

SCOPE OF PROGRAM:

	PRIOR		FY-82		FY-83		FY-84		OUTYEAR		T O T A L	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
	2	19.1		5.0		8.3	58	32.0	44	28.6	104	93.
BASIS FOR COST ESTIMATE:												
NONRECURRING	1	14.1		2.5		.4					1	17
KITS	1	.2					58	31.9	44	28.6	103	60
DATA		4.2		1.0								5
SUPPORT EQUIP.		.6		1.5		7.9		.1				10
TOTAL	2	19.1		5.0		8.3	58	32.0	44	28.6	104	93

(122)

MODIFICATION OF AIRCRAFT
FY-83 PROGRAM

FY-83 APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: STATIC PRESSURE COMP SYS, MM-51095B

MODELS OF AIRCRAFT AFFECTED: F/RF-4

DESCRIPTION/JUSTIFICATION: PROVIDES AN IMPROVED STATIC PRESSURE COMPENSATION SYSTEM (SPC), FOR TH F-4 CENTRAL AIR DATA COMPUTER (CADC). DESIGN CHANGES ARE IN THE CADC AND RELATED PNEUMATIC PLUMBING TO PREVENT CONTAMINATION AND CORROSION FAILURES RESULTING FROM THE ENGINE BLEED AIR EMPLOYED IN THE SPC. THE CADC WILL BE UNSUPPORTABLE UNLESS MODIFIED.

SCOPE OF PROGRAM:

	PRIOR		FY-82		FY-83		FY-84		OUTYEAR		T O T A L	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
	---	----	---	----	---	----	---	----	---	----	-----	----
					901	4.8	730	4.6			1631	9.
BASIS FOR COST ESTIMATE:												
NONRECURRING					1	.9					1	.
KITS					900	4.3	730	4.6			1630	8.
DATA						.1						.
TOTAL					901	4.8	730	4.6			1631	9.

METHOD OF IMPLEMENTATION: INSTALLATION - DEPOT
LEAD TIME - 12 MONTHS

(123)

MODIFICATION OF AIRCRAFT
FY-83 PROGRAM

FY-83 APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: CTVS/AVTR, MN-3035

MODELS OF AIRCRAFT AFFECTED: F-15

DESCRIPTION/JUSTIFICATION: THIS COCKPIT TV SENSOR (CTVS) AND STANDARD AIRBORNE VIDEO TAPE RECORDER (AVTR) ARE FOR COMBAT/TRAINING DOCUMENTATION, TO RECORD HEAD SET AUDIO AND VIDEO DISPLAYS . CTVS IS A TV CAMERA WHICH RECORDS IMAGERY INFORMATION, REPLACING FILM CAMERAS. AVTR PROVIDES 30 MINUTES RECORDING TIME (VICE 3 BY GUN CAMERA), REQUIRES NO PROCESSING AND IS IMMEDIATELY AVAILABLE FOR FLIGHT DEBRIEFING/INSTRUCTION. THIS MOD PROVIDES AN IMPROVED, COST EFFECTIVE CAPABILITY, INCLUDING RECORDING RADAR/EO DISPLAY NOT CURRENTLY AVAILABLE.

SCOPE OF PROGRAM:

	PRIOR		FY-82		FY-83		FY-84		OUTYEAR		T O T A L	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
	300	5.8			172	3.5					472	9.3
BASIS FOR COST ESTIMATE:												
KITS	300	5.1			172	3.5					472	8.6
DATA		.4										.4
TRAINER		*										*
SUPPORT EQUIP.		*										*
MOD OF SPARES		.3										.3
TOTAL	300	5.8			172	3.5					472	9.3

METHOD OF IMPLEMENTATION: INSTALLATION - DEPOT/DEPOT FIELD TEAM
LEAD TIME - 22 MONTHS

* LESS THAN $ 50.000

(114)

MODIFICATION OF AIRCRAFT
FY-83 PROGRAM

FY-83 APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: ALL ENVIRONMENT ID

MODELS OF AIRCRAFT AFFECTED: F-15

DESCRIPTION/JUSTIFICATION: PROVIDES AIRBORNE TARGET IDENTIFICATION ENHANCEMENTS FOR EFFECTIVE MEDIUM RANGE MISSILE EMPLOYMENT. A MIX OF SYSTEMS IS REQUIRED TO PROVIDE CAPABILITY TO ATTACK MULTIPLE TARGET FORMATIONS IN ADVERSE WEATHER, NIGHT AND ECM ENVIRONMENTS. THIS INCLUDES RADAR AND ELECTRO-OPTICAL SYSTEMS COMBINED WITH INTEGRATED SYSTEM CONTROL.

SCOPE OF PROGRAM:

	PRIOR		FY-82		FY-83		FY-84		OUTYEAR		T O T A L	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
	---	---	---	---	---	---	---	---	---	---	---	---
							106	15.1	300	26.8	406	41.9
BASIS FOR COST ESTIMATE:												
NONRECURRING							6	1.4			6	1.4
KITS							100	8.2	300	26.8	400	35.0
DATA								2.0				2.0
TRAINER								.1				.1
SUPPORT EQUIP.								.2				.2
COMPONENT MOD								3.2				3.2
TOTAL							106	15.1	300	26.8	406	41.9

METHOD OF IMPLEMENTATION: INSTALLATION - ORG/INTERMEDIATE
LEAD TIME - 12 MONTHS

MODIFICATION OF AIRCRAFT
FY-83 PROGRAM

FY-83 APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: AMRAAM

MODELS OF AIRCRAFT AFFECTED: F-15

DESCRIPTION/JUSTIFICATION: PROVIDES FOR AERIAL INTEGRATION FOR F-15 AIRCRAFT. INCLUDES NEW/MODIFIED MISSILE LAUNCHERS, AVIONICS SOFTWARE FOR HUD AND RADAR SYMBOLOGY, MISSILE PERFORMANCE ALGORITHMS, WEAPONS SWITCHES, DATA AND SUPPORT EQUIPMENT. PROVIDES IMPROVED OPERATIONAL CAPABILITY IN MULTI-TARGET.

SCOPE OF PROGRAM:

	PRIOR QTY	PRIOR COST	FY-82 QTY	FY-82 COST	FY-83 QTY	FY-83 COST	FY-84 QTY	FY-84 COST	OUTYEAR QTY	OUTYEAR COST	T O T A L QTY	T O T A L COST
BASIS FOR COST ESTIMATE:								9.5	651	143.8	651	153.3
NONRECURRING								5.9		28.6		34.5
KITS									651	109.2	651	109.2
SUPPORT EQUIP.										9.6		9.6
TOTAL								9.5	651	143.8	651	153.3

MODIFICATION OF AIRCRAFT
FY-8. PROGRAM

FY-83 APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: SEEK BARRIT

MODELS OF AIRCRAFT AFFECTED: F-15

DESCRIPTION/JUSTIFICATION: PROVIDE SEEK BARRIT CAPABILITY FOR F-15 AIRCRAFT.

SCOPE OF PROGRAM.

	PRIOR QTY	PRIOR COST	FY-82 QTY	FY-82 COST	FY-83 QTY	FY-83 COST	FY-84 QTY	FY-84 COST	OUTYEARS QTY	OUTYEARS COST	T O T A L QTY	T O T A L COST
							2	3.4	670	130.0	672	133.9
BASIS FOR COST ESTIMATE:												
NONRECURRING							2	1.0			2	1.0
KITS									670	122.9	670	122.9
DATA								.3		.7		1.0
SUPPORT EQUIP.								.4		3.4		4.0
TOOLING								2.0		3.0		5.0
TOTAL							2	3.7	670	130.0	672	133.9

METHOD OF IMPLEMENTATION: INSTALLATION - DEPOT
LEAD TIME - 18 MONTHS

(127)

MODIFICATION OF AIRCRAFT
FY-83 PROGRAM

FY-83 APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: MARK XII IFF IMPROVEMENTS

MODELS OF AIRCRAFT AFFECTED: F-15

DESCRIPTION/JUSTIFICATION: ELECTRONIC COUNTER MEASURE (ECM) TESTING HAS IDENTIFIED SEVERAL SERIOUS DEFICIENCIES WITH THE AN/APX-101 TRANSPONDER AND THE AN/APX-76 INTERROGATOR. THIS MODIFICATION IS NEEDED TO CORRECT THESE DEFICIENCIES AND IMPROVE THE PERFORMANCE OF THIS EQUIPMENT IN AN ECM ENVIRONMENT.

SCOPE OF PROGRAM:

	PRIOR		FY-82		FY-83		FY-84		OUTYEAR		T O T A L	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
					360	3.1	312	2.3			672	5.
BASIS FOR COST ESTIMATE:												
NONRECURRING						.6						.
KITS					360	2.4	312	2.2			672	4.
DATA						.1		.1				.
TOTAL					360	3.1	312	2.3			672	5.

METHOD OF IMPLEMENTATION: INSTALLATION - CONTRACTOR/FIELD TEAM
LEAD TIME - 12 MONTHS

MODIFICATION OF AIRCRAFT
FY-83 PROGRAM

FY-83 APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: VERTICAL STABILIZER ASSY, MN-11618B

MODELS OF AIRCRAFT AFFECTED: F-15

DESCRIPTION/JUSTIFICATION: THE VERTICAL STABILIZERS ARE EXPERIENCING CRACKS IN THE TIP TO FIN SUPPORT BRACKETS, UPPER AFT BOX AND FORWARD BOX UPPER CLOSURE. WATER ENTRAPMENT IN THE MAIN TORQUE BOX UPPER AFT BORON COMPOSITE IS CAUSING DELAMINATION IN THE COMPOSITE MATERIAL. THES DEFICIENCIES ARE THE RESULTS OF THE SEVERE FLEXING AND VIBRATION TO WHICH THE STABILIZERS AR EXPOSED IN ITS OPERATING ENVIRONMENT. MODIFICATION OF THE STABILIZER WILL REDUCE COSTLY REPAIRS AND UNSCHEDULED REPLACEMENTS.

SCOPE OF PROGRAM:

	PRIOR		FY-82		FY-83		FY-84		OUTYEAR		T O T A L	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
							84	21.4	573	108.9	657	130.
BASIS FOR COST ESTIMATE:												
NONRECURRING							1	5.2			1	5.
KITS							83	15.8	573	108.9	656	124.
DATA								.3				.
SUPPORT EQUIP.								.1				.
TOTAL							84	21.4	573	108.9	657	130.

METHOD OF IMPLEMENTATION: INSTALLATION - DEPOT
LEAD TIME - 12 MONTHS

(129)

DO NOT TYPE OVER THIS LINE

MODIFICATION OF AIRCRAFT
FY-83 PROGRAM

FY-83 APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: IMPROVED COMM/NAV, MN-610001

MODELS OF AIRCRAFT AFFECTED: F-15

DESCRIPTION/JUSTIFICATION: UPDATED UHF/TACAN COMMUNICATIONS EQUIPMENT AND VINSON TACTICAL SECURE VOICE EQUIPMENT ARE BEING INSTALLED ON THE PRODUCTION LINE FOR THE F-15C/D AIRCRAFT. THIS MODIFICATION IS REQUIRED TO STANDARDIZE THE F-15 AIRCRAFT. THE F-15 INTEGRATED COMMUNICATIO CONTROL PANEL (ICCP) MAKES ACCOMPLISHING ALL COMMUNICATION MODIFICATIONS AT ONE TIME MANDATORY.

SCOPE OF PROGRAM:

	PRIOR		FY-82		FY-83		FY-84		OUTYEAR		T O T A L	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
	103	9.7	195	13.6	212	16.7	109	8.5			619	48.
BASIS FOR COST ESTIMATE:												
NONRECURRING		2.0		.6								2.
KITS	103	7.6	195	13.0	212	16.7	109	8.5			619	45.
TRAINER		.1										.
TOTAL	103	9.7	195	13.6	212	16.7	109	8.5			619	48.

METHOD OF IMPLEMENTATION: INSTALLATION - DEPOT
LEAD TIME - 21 MONTHS

(130)

DO NOT TYPE IN

MODIFICATION OF AIRCRAFT
FY-83 PROGRAM

FY-83 APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: UPDATE MODS

MODELS OF AIRCRAFT AFFECTED: F-15 F-100 ENGINE

DESCRIPTION/JUSTIFICATION: ENGINE REQUIRES UPDATES TO CORRECT DEFICIENCIES REVEALED DURING DEVELOPMENT AND INITIAL OPERATIONAL USE. CORRECTIONS ARE INCORPORATED IN PRODUCTION AT THE EARLIEST TIME. UPDATE MODS ARE REQUIRED TO MAINTAIN CONFIGURATION CONTROL OF DELIVERED ENGINES AND THOSE TOO FAR INTO PRODUCTION FOR INCORPORATION. THE REQUIREMENTS LISTED ARE KNOWN PROBLEMS AND ARE REPRESENTATIVE OF THE TOTAL MODIFICATION ANTICIPATED.

SCOPE OF PROGRAM:

	PRIOR		FY-82		FY-83		FY-84		OUTYEAR		T O T A L	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
						11.0		11.3		1.7		24.
BASIS FOR COST ESTIMATE:												
ENGINE						11.0		11.3		1.7		24.
TOTAL						11.0		11.3		1.7		24.

(131)

DO NOT TYPE

FY 83 F-15 ENGINE UPDATE MODIFICATIONS

	FY 83
VANE/BOOST STAGE IMPROVEMENTS	.8
FUEL NOZZLE IMPROVEMENTS	1.6
INCREASED TURBINE BLADE DURABILITY	.4
FUEL PUMP RELIABILITY	.4
AUGMENTOR FLAMEHOLDER	.2
AUGMENTOR PUMP CONTROLLER	.1
REDESIGN MANIFOLD BRACKET	.3
AUGMENTOR HINGE PINS AND LOCKS	.8
AUGMENTOR FLOW LINKAGE	.4
IMPROVED MAIN FUEL PUMP LIFE	5.8
UFC QUICK FILL SENSOR	.8
IMPELLER ½ SPEED BEARING ANTI-ROTATE	1.4
TOTAL	11.0

(132)

DO NOT TYPE B

MODIFICATION OF AIRCRAFT
FY-83 PROGRAM

FY-83 APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: MULTINATIONAL STAGED IMPROVEMENT PROGRAM (A/C 330-785)

MODELS OF AIRCRAFT AFFECTED: F-16

DESCRIPTION/JUSTIFICATION: AIRCRAFT 330 THROUGH 785 WILL BE MODIFIED TO INCLUDE THE FOLLOWING NEW CAPABILITIES: SEEK TALK, ADVANCED MEDIUM RANGE AIR-TO-AIR MISSILE (AMRAAM), AUTOMATIC SELF-PROTECTION JAMMING (ASPJ), AND CORE AVIONICS (IL RADAR, IMPROVED ENVIRONMENTAL CONTROL SYSTEM, ADVANC CENTRAL INTERFACE UNIT, FIRE CONTROL COMPUTER, AND DATA TRANSFER UNIT). SE TALK PROVIDES JAM RESISTANT UHF VOICE CAPABILITY FOR THE F-16. AMRAAM INVOLVES WIRING, WING STRUCTURE, AIRCRAFT EQUIPMENT, AND INTEGRATION FOR FULL AMRAAM CAPABILITY.

SCOPE OF PROGRAM:

	PRIOR		FY-82		FY-83		FY-84		OUTYEAR		T O T A L	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
							2	40.8	454	2298.2	456	2339.
BASIS FOR COST ESTIMATE:												
NONRECURRING							2	10.0		29.2	2	39.
KITS									454	1766.4	454	1766.
DATA								5.1		93.5		98.
TRAINER								8.5		138.0		146.
SUPPORT EQUIP.								17.2		271.1		288.
TOTAL							2	40.8	454	2298.2	456	2339.

METHOD OF IMPLEMENTATION: INSTALLATION - DEPOT
LEAD TIME - 36 MONTHS

(133)

DO 3CC TYP R

MODIFICATION OF AIRCRAFT
FY-83 PROGRAM

FY-83 APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: UPDATE MODIFICATIONS

MODELS OF AIRCRAFT AFFECTED: F-16

DESCRIPTION/JUSTIFICATION: AIRCRAFT REQUIRE MODIFICATIONS TO CORRECT DEFICIENCIES REVEALED DURING DEVELOPMENT AND INITIAL USE. CORRECTIONS ARE INCORPORATED INTO PRODUCTION AT THE EARLIEST TIME. UPDATE MODIFICATIONS ARE REQUIRED TO MAINTAIN CONFIGURATION CONTROL OF DELIVERED AIRCRAFT AND THOSE TOO FAR INTO PRODUCTION FOR INCORPORATION.

SCOPE OF PROGRAM:

	PRIOR		FY-82		FY-83		FY-84		OUTYEAR		T O T A L	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
		75.2		50.0		40.1		36.5		171.4		373.2
BASIS FOR COST ESTIMATE:												
OTHER		75.2		50.0		40.1		36.5		171.4		373.2
TOTAL		75.2		50.0		40.1		36.5		171.4		373.2

DO NOT TYPE BELOW

FY 83 F-16 UPDATE MODIFICATIONS

TITLE	FY 83
IMPROVED INLET ANTI-ICING	$10.3M
ENGINE COMBUSTOR PATTERN IMPROVEMENT	1.8
IMPELLER HALF SPEED BEARING	.8
IMPROVED DURABILITY FLAME HOLDER	2.6
IMPROVED MAIN FUEL PUMP LIFE	1.4
LIGHT-OFF DETECTOR	9.2
PUMP CONTROLLER-COVER PRESSURE LIMITER	1.1
REAR COMPRESSOR VARIABLE VANES	3.8
UNIFIED FUEL CONTROL	.5
BACK-UP CONTROL IMPROVEMENTS	1.6
ENGINE CORRECTION OF DEFICIENCIES	7.0
TOTAL	$40.1

DO NOT TY...

MODIFICATION OF AIRCRAFT
FY-83 PROGRAM

FY-83 APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: VINSON/PARKHILL SECURE VOICE, MN-3070

MODELS OF AIRCRAFT AFFECTED: FB-111/F-111A/D/E/F

DESCRIPTION/JUSTIFICATION: PROVIDES ON-LINE ENCRYPTION/DECRYPTION OF VHF/UHF AM/FM HALF-DUPLEX RADIO FOR ALL CLASSIFICATION OF TRAFFIC. ALSO PROVIDES PARKHILL ON-LINE ENCRYPTION/DECRYPTI OF HF NARROW-BAND FREQUENCY RANGES UP TO SECRET LEVEL. THE TSEC/KY-7[illegible] IS DESIGNED FOR OPERATION IN ALL AIRCRAFT APPLICATIONS.

SCOPE OF PROGRAM:

	PRIOR		FY-82		FY-83		FY-84		OUTYEAR		T O T A L	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
	---	---	---	---	---	---	---	---	---	---	---	---
			92	8.7	91	5.2	97	4.3	101	4.9	381	23.
BASIS FOR COST ESTIMATE:												
NONRECURRING			2	1.7		1.2					2	2.
KITS			90	3.3	91	3.4	97	4.1	101	4.8	379	15.
DATA				1.5		.6						2.
TRAINER				.2				.2		.1		.
TOOLING				2.0								2.
TOTAL			92	8.7	91	5.2	97	4.3	101	4.9	381	23.

METHOD OF IMPLEMENTATION: INSTALLATION - DEPOT
LEAD TIME - 12 MONTHS

DO NOT TYPE BEY

MODIFICATION OF AIRCRAFT
FY-83 PROGRAM

FY-83 APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: SIGNAL DATA CONVERTER (SDC), HH-10309B

MODELS OF AIRCRAFT AFFECTED: F-111D

DESCRIPTION/JUSTIFICATION: APQ-130 SIGNAL DATA CONVERTER FAILURES ARE PRIMARILY DUE TO USE OF CUSTOM BUILT MICROELECTRONIC CIRCUITS AND METAL OXIDE SEMICONDUCTER FIELD EFFECT TRANSISTORS (MOSFET) DEVICES. MICROELECTRONIC CIRCUITS ARE DIFFICULT TO REPAIR. THIS MODIFICATION WILL REMOVE ALL MICROELECTRONIC CIRCUITS AND MOSFET DEVICES. MEAN TIME BETWEEN FAILURE WILL INCREASE FROM 176 TO 1108 HOURS.

SCOPE OF PROGRAM:

	PRIOR		FY-82		FY-83		FY-84		OUTYEAR		T O T A L	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
			1	3.2	78	2.9					79	6.1
BASIS FOR COST ESTIMATE:												
NONRECURRING			1	1.6							1	1.6
KITS					78	2.9					78	2.9
DATA				.9								.9
SUPPORT EQUIP.				.7								.7
TOTAL			1	3.2	78	2.9					79	6.1

METHOD OF IMPLEMENTATION: INSTALLATION - CONTRACTOR
LEAD TIME - 9 MONTHS

(137)

MODIFICATION OF AIRCRAFT
FY-83 PROGRAM

FY-83 APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: RADAR RECEIVER IMPROVEMENT, MM-10310B

MODELS OF AIRCRAFT AFFECTED: F-111D

DESCRIPTION/JUSTIFICATION: APQ-130 RADAR RECEIVER FAILURES ARE PRIMARILY DUE TO USE OF CUSTOM BUIL MICROELECTRONIC CIRCUITS. THEY ARE DIFFICULT TO REPAIR AND COSTLY. THIS MODIFICATION WILL REMOVE ALL MICROELECTRONIC CIRCUITS FROM THE RADAR RECEIVER. MEAN TIME BETWEEN FAILURE WILL INCREASE FROM 75 TO 338 HOURS.

SCOPE OF PROGRAM:

	PRIOR		FY-82		FY-83		FY-84		OUTYEAR		T O T A L	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
			1	2.2	78	3.2					79	5.4
BASIS FOR COST ESTIMATE:												
NONRECURRING			1	1.1							1	1.1
KITS					78	3.2					78	3.2
DATA				.5								.5
SUPPORT EQUIP.				.6								.6
TOTAL			1	2.2	78	3.2					79	5.4

METHOD OF IMPLEMENTATION: INSTALLATION - CONTRACTOR
LEAD TIME - 10 MONTHS

DO NOT TYPE BEY[illegible]R

MODIFICATION OF AIRCRAFT
FY-83 PROGRAM

FY-83 APPROPRIATION: AIRCRAFT PROCURLMENT, AIR FORCE

MODIFICATION TITLE AND NO: INTEGRATED DISPLAY SET RELIABILITY, MM-10320C

MODELS OF AIRCRAFT AFFECTED. F-111D

DESCRIPTION/JUSTIFICATION: THE ANNUAL LOGISTIC SUPPORT COST (LSC) IS 4.2 MILLION DOLLARS FOR CURRENT CONFIGURATION DUE TO LOW RELIABILITY OF DIGITAL DATA INDICATOR AND ANALOG DISPLAY INDICATOR. THE NEW DESIGN USING DIGITAL LOGIC AND MICROELECTRONIC COMPONENTS WILL REDUCE TH ANNUAL LSC TO $410,000. FAILURE TO PROVIDE RELIABILITY IMPROVEMENTS WILL RESULT IN A NON-SUPPORT POSTURE DUE TO NON-AVAILABILITY OF ELECTRONIC COMPONENTS.

SCOPE OF PROGRAM:

	PRIOR		FY-82		FY-83		FY-84		OUTYEAR		T O T A L	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
					2	4.9	50	19.7	28	8.0	80	32.
BASIS FOR COST ESTIMATE:												
NONRECURRING					2	4.9					2	4.
KITS							50	17.5	28	8.0	78	25.
DATA								1.5				1.
SUPPORT EQUIP.								.7				.
TOTAL					2	4.9	50	19.7	28	8.0	80	32.

METHOD OF IMPLEMENTATION: INSTALLATION - DEPOT
LEAD TIME - 3 MONTHS

(139)

MODIFICATION OF AIRCRAFT
FY-83 PROGRAM

FY-83 APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: MAIN LANDING GEAR AXLE, MM-10572A

MODELS OF AIRCRAFT AFFECTED: F-111A/D/E

DESCRIPTION/JUSTIFICATION: LANDING AND BRAKING LOADS STRESS THE MAIN LANDING GEAR AXLES. FATIGUE ANALYSIS INDICATES ONLY 1 1/2 YEARS OF LIFE REMAINING ON HIGH TIME F-111D AIRCRAFT AND UP TO YEARS FOR F-111A,E, AND EF-111 AIRCRAFT. FAILURE DURING OPERATION WOULD RESULT IN EXTENSIVE DAMAGE AND PROBABLE AIRCRAFT LOSS. THE CURRENT AXLE WILL BE REPLACED WITH THE HEAVYWEIGHT VERSION CURRENTLY INSTALLED ON FB-111 AND F-111F SERIES AIRCRAFT.

SCOPE OF PROGRAM

	PRIOR		FY-82		FY-83		FY-84		OUTYEAR		T O T A L	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
	87	3.9			160	8.4					247	12.
BASIS FOR COST ESTIMATE:												
NONRECURRING		.1										.
KITS	87	3.8			160	8.4					247	12.
DATA		*										*
TOTAL	87	3.9			160	8.4					247	12.

METHOD OF IMPLEMENTATION: INSTALLATION - ORG/INTERMEDIATE
LEAD TIME - 30 MONTHS

* LESS THAN $ 50,000

(140

DO NOT TYPE [illegible]

MODIFICATION OF AIRCRAFT
FY-83 PROGRAM

FY-83 APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: PACER "30", MM-11403B

MODELS OF AIRCRAFT AFFECTED: F/FB-111A/E/D/F

DESCRIPTION/JUSTIFICATION: MOLIFICATION WILL IMPROVE THE RELIABILITY AND DURABILITY OF THE TF-30-P3/7/9 ENGINES USED IN THE F/FB-111 AND WILL SIGNIFICANTLY ENHANCE OPERATING SAFETY. NINE MAJOR F-111 ACCIDENTS HAVE BEEN ATTRIBUTED TO TF-30 PROBLEMS SINCE 1975. ACCELERATED MISSION TESTING HAS REVEALED SIGNIFICANT SAFETY/RELIABILITY PROBLEMS UPCOMING IF NOT CORRECTED. IN ADDITION TO SAFETY BENEFITS, THE MODIFICATION WILL AMORTIZE BY 1988 BY REDUCING UNSCHEDULED ENGINE REMOVALS AND DEPOT OVERHAULS BY HALF.

SCOPE OF PROGRAM.

	PRIOR		FY-82		FY-83		FY-84		OUTYEAR		T O T A L	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
			241	38.5	230	39.9	211	38.0	203	33.4	885	149.8
BASIS FOR COST ESTIMATE:												
KITS			241	38.5	230	39.9	211	38.0	203	33.4	885	149.8
TOTAL			241	38.5	230	39.9	211	38.0	203	33.4	885	149.8

METHOD OF IMPLEMENTATION: INSTALLATION - DEPOT
LEAD TIME - 24 MONTHS

(141

DO NOT TYPE BEY[illegible]OR [illegible]

MODIFICATION OF AIRCRAFT
FY-83 PROGRAM

FY-83 APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: REPLACE CONVERTER MULTIPLEXER, MM-16308B

MODELS OF AIRCRAFT AFFECTED: FB/F-111 D/F

DESCRIPTION/JUSTIFICATION: THIS NEW CONVERTER MULTIPLEXER HAS BEEN DESIGNED WITH CURRENT STATE-OF-THE-ART ELECTRONICS. HIGH DENSITY PACKAGING HAS REDUCED THE CARD COUNT FROM 60 TO AND PARTS FROM 7000 TO 3600. THE UNIT IS BUILT TO THE ORIGINAL CONVERTER SPECIFICATION AND COMPLETELY INTERCHANGEABLE WITH THE PRESENT CONVERTER. MEAN TIME BETWEEN FAILURE SHOULD IMPROVE FROM 28 HOURS TO 383 HOURS.

SCOPE OF PROGRAM:

	PRIOR		FY-82		FY-83		FY-84		OUTYEAR		T O T A L	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
	174	37.0	78	12.6		2.0					252	51.
BASIS FOR COST ESTIMATE:												
NONRECURRING	6	6.7									6	6.
KITS	168	20.5	78	12.6							246	33.
DATA		4.2				.5						4.
TRAINER		.5										
SUPPORT EQUIP.		5.1				1.5						6
TOTAL	174	37.0	78	12.6		2.0					252	51

METHOD OF IMPLEMENTATION: INSTALLATION - ORG/FIELD
LEAD TIME - 12 MONTHS

(142)

DO NOT TYPE BEY [illegible] DO

MODIFICATION OF AIRCRAFT
FY-83 PROGRAM

FY-83 APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: REDESIGN RADAR TRANSMITTER, MM-18316B

MODELS OF AIRCRAFT AFFECTED: F-111D

DESCRIPTION/JUSTIFICATION: THE APQ-130 RADAR TRANSMITTER CONSISTS OF A PULSED TRAVELING WAVE TUBE (TWT) AMPLIFIER AND ASSOCIATED HIGH VOLTAGE/HIGHPOWER PULSE NETWORKS AND SOLID STATE COMPONENTS. DUE TO THE COMPLEXITY AND WORKING STRESS LEVELS, THE TRANSMITTER IS A HIGH FAILURE ITEM AND IS COSTLY TO MAINTAIN. THE REDESIGNED UNIT WILL EMPLOY A NEW TRAVELING WAVE TUBE WHICH DOES NOT REQUIRE ALL OF THE ASSOCIATED HIGH POWER LEVEL SWITCHING AND PULSE FORMI NETWORKS.

SCOPE OF PROGRAM:

	PRIOR		FY-82		FY-83		FY-84		OUTYEAR		TOTAL	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
	1	5.0		1.5	35	4.8	49	6.4			85	17.
BASIS FOR COST ESTIMATE:												
NONRECURRING	1	3.5									1	3.
KITS					35	4.8	49	6.4			84	11.
DATA		1.5										1.
SUPPORT EQUIP.				1.5								1.
TOTAL	1	5.0		1.5	35	4.8	49	6.4			85	17.

METHOD OF IMPLEMENTATION: INSTALLATION - CONTRACTOR/FIELD TEAM
LEAD TIME - 9 MONTHS

(143)

MODIFICATION OF AIRCRAFT
FY-83 PROGRAM

FY-83 APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: REDESIGN ELECTRONIC PROCESSOR UNIT (EPU), MM-18317C

MODELS OF AIRCRAFT AFFECTED: F-111

DESCRIPTION/JUSTIFICATION: THE EPU CONSISTS OF 32 CIRCUIT BOARDS CONTAINING 275 MICROCIRCUITS AND TOTAL OF 7715 PIECE PARTS. REDESIGN WILL REPLACE THE MICROCIRCUITS WITH OFF-THE-SHELF SOLID STATE DEVICES, REDUCE NUMBER OF CARDS TO 20; AND REDUCE TOTAL PARTS COUNT TO 1200. ALSO, A NEW BUILT-IN TEST CAPABILITY WILL BE INCORPORATED TO PROVIDE IMPROVED FLIGHT LINE ISOLATION T ALL APQ-130 UNITS AND REDUCE REMOVAL RATE.

SCOPE OF PROGRAM:

	PRIOR		FY-82		FY-83		FY-84		OUTYEAR		T O T A L	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
	1	3.8		2.0	55	8.4	23	2.9			79	17.
BASIS FOR COST ESTIMATE:												
NONRECURRING	1	2.3									1	2.
KITS					55	7.3	23	2.9			78	10.
DATA		1.5										1.
SUPPORT EQUIP.				2.0		1.1						3.
TOTAL	1	3.8		2.0	55	8.4	23	2.9			79	17.

METHOD OF IMPLEMENTATION: INSTALLATION - CONTRACTOR/FILLD TEAM
LEAD TIME - 12 MONTHS

(1011)

DO NOT TYPE

MODIFICATION OF AIRCRAFT
FY-83 PROGRAM

FY-83 APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: WEAPONS/NAVIGATION COMPUTER, MK-19304B

MODELS OF AIRCRAFT AFFECTED: FB/F-111D/F

DESCRIPTION/JUSTIFICATION: THIS MODIFICATION WILL REPLACE THE EXISTING UNRELIABLE GENERAL PURPOSE COMPUTER WITH A NEW STATE OF THE ART COMPUTER TO INCREASE MEAN TIME BETWEEN FAILURE AND REDUCE LOGISTICS SUPPORT COST. THE INCREASED PROCESSING SPEED AND MEMORY CAPACITY WILL ENHANCE MISSION PERFORMANCE.

SCOPE OF PROGRAM:

	PRIOR		FY-82		FY-83		FY-84		OUTYEAR		T O T A L	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
	3	7.4		4.1	100	14.4	138	13.9			241	39
BASIS FOR COST ESTIMATE:												
NONRECURRING	3	6.3									3	6
KITS					100	11.9	138	13.9			238	25
DATA		.4		2.1								2
TRAINER				2.0								2
SUPPORT EQUIP.		.7				2.5						3
TOTAL	3	7.4		4.1	100	14.4	138	13.9			241	39

METHOD OF IMPLEMENTATION: INSTALLATION - ORG
LEAD TIME - 14 MONTHS

(145)

DO NOT TYPE

MODIFICATION OF AIRCRAFT
FY-83 PROGRAM

FY-83 APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: TACTICAL SUPPORT AIRCRAFT (EW), MN-3015

MODELS OF AIRCRAFT AFFECTED: EF-111A

DESCRIPTION/JUSTIFICATION: THIS MODIFICATION

AND PROVIDES ELECTRONIC COUNTER COUNTERMEASURE TRAINING OF AIR DEFENSE FORCES ON A WORLDWIDE BASIS IN PEACETIME.

SCOPE OF PROGRAM:

	PRIOR		FY-82		FY-83		FY-84		OUTYEAR		T O T A L	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
	21	514.9	12	252.7	9	203.6					42	971
BASIS FOR COST ESTIMATE:												
NONRECURRING		41.0										41
KITS	21	374.7	12	212.5	9	196.9					42	784
DATA		46.0		17.8		2.9						67
TRAINER		10.1		1.1								11
SUPPORT EQUIP.		41.6										41
MID-BAND				21.3		3.8						25
TOTAL	21	514.9	12	252.7	9	203.6					42	971

METHOD OF IMPLEMENTATION: INSTALLATION - CONTRACTOR
LEAD TIME - 12 MONTHS

146

DO NOT TYPE B.Y

MODIFICATION OF AIRCRAFT
FY-83 PROGRAM

FY-83 APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: INCREASE SERVICE LIFE, MH-19207A

MODELS OF AIRCRAFT AFFECTED: T-37

DESCRIPTION/JUSTIFICATION: TO OBTAIN A SERVICE LIFE OF 25,000 AIRFRAME HOURS REQUIRED TO MEET THE FORCE STRUCTURE PLAN, THE FOLLOWING IS REQUIRED: WING STATION 46 "BEEF-UP", REPLACEMENT OF CARRY-THRU SPAR, CANOPY RAIL "BEEF-UP" REAR WING SPAR AND ATTACH FITTING "BEEF-UP", HORIZONT. STABILIZER "BEEF-UP" AND BANJO FITTING REWORK. THIS MODIFICATION INCORPORATES THESE CHANGES

SCOPE OF PROGRAM:

	PRIOR		FY-82		FY-83		FY-84		OUTYEAR		T O T A L	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
					1	3.6	119	4.6	511	23.8	631	32.
BASIS FOR COST ESTIMATE:												
NONRECURRING					1	2.9					1	2.
KITS							119	4.6	511	23.8	630	28.
DATA						.1						.
TOOLING						.6						.
TOTAL					1	3.6	119	4.6	511	23.8	631	32.

METHOD OF IMPLEMENTATION: INSTALLATION - DEPOT
LEAD TIME - 20 MONTHS

(147

MODIFICATION OF AIRCRAFT
FY-83 PROGRAM

FY-83 APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND PO: ATTITUDE INDICATOR ARU-30, MM-21119A

MODELS OF AIRCRAFT AFFECTED: T-37B

DESCRIPTION/JUSTIFICATION: THIS MODIFICATION REPLACES THE PRESENT ARU-13 ATTITUDE SYSTEM WITH A DC DRIVEN GYRO INDICATOR ARU-30. THE CURRENT ARU-13 ATTITUDE SYSTEM IS FAILURE PRONE AND HAS CONTRIBUTED TO SEVERAL AIRCRAFT LOSSES IN 1980 AND 1981. THE INCREASING FAILURE RATE REQUIRE REPLACEMENT TO ASSURE SAFE OPERATION OF THE AIRCRAFT.

SCOPE OF PROGRAM:

	PRIOR		FY-82		FY-83		FY-84		OUTYEAR		T O T A L	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
			75	*	572	3.8					647	3.8
BASIS FOR COST ESTIMATE:												
NONRECURRING				*								*
KITS			75	*	572	3.3					647	3.3
DATA				*								*
TRAINER						.5						.5
TOTAL			75	*	572	3.8					647	3.8

METHOD OF IMPLEMENTATION: INSTALLATION - DEPOT/FIELD TEAM
LEAD TIME - 12 MONTHS

* LESS THAN $ 50,000

(148)

MODIFICATION OF AIRCRAFT
FY-83 PROGRAM

FY-83 APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: VINSON SECURE VHF/UHF COMM, MN-3025

MODELS OF AIRCRAFT AFFECTED: C-5A

DESCRIPTION/JUSTIFICATION: VINSON SECURE VOICE PROVIDES ON-LINE ENCRYPTION/DECRYPTION OF VHF/UHF AM/FM HALF-DUPLEX RADIO FOR ALL CLASSIFICATION OF TRAFFIC. THE TSEC/KY-58 IS DESIGNED FOR OPERATION IN AIRCRAFT INSTRUMENT PANELS OR RADIO-CONSOLE CONTROL PANELS, OR IT MAY BE LOCATE IN EQUIPMENT BAYS AND OPERATED BY A REMOTE CONTROL UNIT (RCU).

SCOPE OF PROGRAM:

	PRIOR		FY-82		FY-83		FY-84		OUTYEAR		T O T A L	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
			1	1.0	37	4.4	39	2.3			77	7.
BASIS FOR COST ESTIMATE:												
NONRECURRING			1	.7	1	.7					2	1.
KITS					36	1.7	39	2.3			75	4.
DATA				.3								.
TRAINER						2.0		*				2.
TOTAL			1	1.0	37	4.4	39	2.3			77	7.

METHOD OF IMPLEMENTATION: INSTALLATION - DEPOT/CFT
LEAD TIME - 2 MONTHS

* LESS THAN $ 50,000

(149)

MODIFICATION OF AIRCRAFT
FY-83 PROGRAM

FY-83 APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: PARKHILL SECURE HF. COMM, MM-3062

MODELS OF AIRCRAFT AFFECTED: C-5A

DESCRIPTION/JUSTIFICATION: PARKHILL SECURE VOICE PROVIDES ON-LINE ENCRYPTION/DECRYPTION OF HF NARROW BAND FREQUENCY RANGES UP TO THE SECRET LEVEL. THE TSEC/KY-75 IS DESIGNED FOR OPERATI IN ALL AIRCRAFT APPLICATIONS.

SCOPE OF PROGRAM:

	PRIOR		FY-82		FY-83		FY-84		OUTYEAR		T O T A L	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
			1	.9	37	3.9	39	2.0			77	6.
BASIS FOR COST ESTIMATE:												
NONRECURRING			1	.6	1	.6					2	1.
KITS					36	1.8	39	2.0			75	3.
DATA				.3								.
TRAINER						1.5						1.
TOTAL			1	.9	37	3.9	39	2.0			77	6.

METHOD OF IMPLEMENTATION: INSTALLATION - DEPOT/CRT
LEAD TIME - 24 MONTHS

(15e)

MODIFICATION OF AIRCRAFT
FY-83 PROGRAM

FY-83 APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: FUEL SAVINGS ADVISORY SYSTEM, MM-10402b

MODELS OF AIRCRAFT AFFECTED: C-5

DESCRIPTION/JUSTIFICATION: INSTALLS AN OFF-THE-SHELF FUEL SAVINGS ADVISORY SYSTEM. DECLINING OIL RESERVES AND INCREASING FUEL COSTS DICTATE FUEL CONSERVATION TO THE MAXIMUM EXTENT POSSIBLE.

SCOPE OF PROGRAM:

	PRIOR		FY-82		FY-83		FY-84		OUTYEAR		T O T A L	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
	4	2.9	42	3.4	31	6.3					77	12.6
BASIS FOR COST ESTIMATE:												
NONRECURRING	1	1.2									1	1.2
KITS	3	.4	42	3.0	31	2.6					76	6.0
DATA		1.1										1.1
TRAINER				.4		3.7						4.1
SUPPORT EQUIP.		.2										.2
TOTAL	4	2.9	42	3.4	31	6.3					77	12.6

METHOD OF IMPLEMENTATION: INSTALLATION - DEPOT
LEAD TIME - 11 MONTHS

MODIFICATION OF AIRCRAFT
FY-83 PROGRAM

FY-83 APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: H-WING MODIFICATION, MM-18238B

MODELS OF AIRCRAFT AFFECTED: C-5

DESCRIPTION/JUSTIFICATION: THE CURRENT C-5 WINGS HAVE AN ESTIMATED 7,100 HOUR SERVICE LIFE. THE FIRST C-5A WILL REACH ITS SERVICE LIFE BY 1982 UNLESS MODIFIED. THIS MODIFICATION WILL INSTALL A NEW CENTER, INNER AND OUTER WING TO EXTEND THE C-5A LIFE BY 30,000 FLYING HOURS OPERATING AT A 200,000 POUND NORMAL PAYLOAD.

SCOPE OF PROGRAM:

	PRIOR		FY-82		FY-83		FY-84		OUTYEAR		T O T A L	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
	16	249.5	18	186.5	18	190.2	24	239.1			76	865.
BASIS FOR COST ESTIMATE:												
KITS	16	221.5	18	186.5	18	190.2	24	239.1			76	837.
TOOLING		19.1										19.
MOD OF SPARES		8.9										8.
TOTAL	16	249.5	18	186.5	18	190.2	24	239.1			76	865.

METHOD OF IMPLEMENTATION: INSTALLATION - CONTRACTOR
LEAD TIME - 36 MONTHS

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MODIFICATION OF AIRCRAFT
FY-83 PROGRAM

FY-83 APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: COMMERCIAL WEATHER RADAR, MM-19201B

MODELS OF AIRCRAFT AFFECTED: C-5A

DESCRIPTION/JUSTIFICATION: REMOVES THE MIL-SPEC MULTI-MODE RADAR SYSTEM AND INSTALLS A COMMERCIAL TYPE WEATHER RADAR WITH COMPONENTS COMMON WITH THE C-141 RADAR. THE MULTI-MODE RADAR IS EXPERIENCING A 23 HOUR MEAN TIME BETWEEN FAILURE (MTBF) AND THE COMMERCIAL TYPE EQUIPMENT HA A MINIMUM OF 500 HOUR MTBF.

SCOPE OF PROGRAM:

	PRIOR		FY-82		FY-83		FY-84		OUTYEAR		T O T A L	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
	2	7.6	29	12.5	46	23.0					77	43
BASIS FOR COST ESTIMATE:												
NONRECURRING	1	4.9									1	4
KITS	1	1.0	29	9.5	46	17.5					76	28
DATA		1.2		.1								1
TRAINER						5.5						5
SUPPORT EQUIP.		.3		.1								
TOOLING				1.5								1
COMPONENT MOD		.2		1.3								1
TOTAL	2	7.6	29	12.5	46	23.0					77	43

METHOD OF IMPLEMENTATION: INSTALLATION - DEPOT/FIELD TEAM
LEAD TIME - 18 MONTHS

MODIFICATION OF AIRCRAFT
FY-83 PROGRAM

FY-83 APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: VINSON TAC SECURE VOICE, MM-3025

MODELS OF AIRCRAFT AFFECTED: C-141A/B

DESCRIPTION/JUSTIFICATION: VINSON SECURE VOICE PROVIDES ON-LINE ENCRYPTION/DECRYPTION OF VHF/UHF AM/FM HALF-DUPLEX RADIO FOR ALL CLASSIFICATION OF TRAFFIC. THE TSEC/KY-56 IS DESIGNED FOR OPERATION IN AIRCRAFT INSTRUMENT PANELS OR RADIO-CONSOLE CONTROL PANELS, OR IT MAY BE LOCATED IN EQUIPMENT BAYS AND OPERATED BY A REMOTE CONTROL UNIT (RCU).

SCOPE OF PROGRAM:

	PRIOR		FY-82		FY-83		FY-84		OUTYEAR		T O T A L	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
			34	1.5	95	2.9	145	3.9			274	8.3
BASIS FOR COST ESTIMATE:												
NONRECURRING			1	.3							1	.3
KITS			33	.9	95	2.5	145	3.9			273	7.3
DATA				*		.4						.4
TRAINER				.3								.3
TOTAL			34	1.5	95	2.9	145	3.9			274	8.3

METHOD OF IMPLEMENTATION: INSTALLATION - DEPOT
LEAD TIME - 9 MONTHS

* LESS THAN $ 50,000

(154)

MODIFICATION OF AIRCRAFT
FY-83 PROGRAM

FY-83 APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: SKE ENHANCEMENT, MM-3033

MODELS OF AIRCRAFT AFFECTED: C-141B

DESCRIPTION/JUSTIFICATION: PROCURES NEW EQUIPMENT TO PROVIDE IMPROVED FORMATION POSITIONING, CONTROL, AND AIRDROP IN ADVERSE WEATHER CONDITIONS. THE NEW EQUIPMENT WILL ELIMINATE HAZARDOUS FREQUENCY INTERFERENCE INHERENT IN PRESENT EQUIPMENT. THE EQUIPMENT WILL BE ADDED TO 79 UNMODIFIED AIRCRAFT AND WILL BE USED TO UPGRADE 63 AIRCRAFT THAT NOW HAVE OLDER EQUIPMENT THAT DISPLAYS NON-EXISTENT TARGETS ON STATION KEEPING SCOPES, AND GIVES FALSE PROXIMITY WARNINGS AND INCORRECT SYSTEM PROBLEM WARNING INDICATIONS.

SCOPE OF PROGRAM:

	PRIOR		FY-82		FY-83		FY-84		OUTYEAR		T O T A L	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
			51	21.3	66	13.8	25	6.2			142	41.3
BASIS FOR COST ESTIMATE:												
NONRECURRING			1	3.0							1	3.0
KITS			50	13.4	66	13.8	25	6.2			141	33.4
DATA				1.9								1.9
SUPPORT EQUIP.				3.0								3.0
TOTAL			51	21.3	66	13.8	25	6.2			142	41.3

METHOD OF IMPLEMENTATION: INSTALLATION - DEPOT/FIELD TEAM
LEAD TIME - 14 MONTHS

(1955)

MODIFICATION OF AIRCRAFT
FY-83 PROGRAM

FY-83 APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: PARKHILL TAC SECURE VOICE, MN-3063

MODELS OF AIRCRAFT AFFECTED: C-141A/B

DESCRIPTION/JUSTIFICATION: PARKHILL SECURE VOICE PROVIDES ON-LINE ENCRYPTION/DECRYPTION OF HF NARROW BAND FREQUENCY RANGES UP TO THE SECRET LEVEL. THE TSEC/KY-75 IS DESIGNED FOR OPERATIO IN ALL AIRCRAFT APPLICATIONS.

SCOPE OF PROGRAM:

	PRIOR		FY-82		FY-83		FY-84		OUTYEAR		T O T A L	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
			34	1.4	95	2.8	145	3.9			274	8.
BASIS FOR COST ESTIMATE:												
NONRECURRING			1	.2							1	.2
KITS			33	.9	95	2.6	145	3.9			273	7.4
DATA				*		.2						.2
TRAINER				.3								.3
TOTAL			34	1.4	95	2.8	145	3.9			274	8.

METHOD OF IMPLEMENTATION: INSTALLATION - DEPOT
LEAD TIME - 9 MONTHS

* LESS THAN $ 50,000

MODIFICATION OF AIRCRAFT
FY-83 PROGRAM

FY-83 APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: REFURBISH FLT SIMULATOR, MM-10502B

MODELS OF AIRCRAFT AFFECTED: C-141B

DESCRIPTION/JUSTIFICATION: PROVIDES A PROGRAMMABLE DIGITAL COMPUTER TO IMPROVE MAINTAINABILITY AND CURRENCY OF CONFIGURATION WITH THAT OF THE AIRCRAFT, WHILE BECOMING MORE LOGISTICALLY SUPPORTABLE. THESE SIMULATORS HAVE ACCUMULATED AN AVERAGE OF APPROXIMATELY 90,000 TRAINING HOURS IN 13 YEARS OF USE. BASED ON CURRENT PROGRAMMING, THEY WILL BE USED FOR AN ADDITIONAL 20 YEARS, AND WILL ACCUMULATE AN ADDITIONAL 104,000 TRAINING HOURS.

SCOPE OF PROGRAM:

	PRIOR		FY-82		FY-83		FY-84		OUTYEAR		T O T A L	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
	1	5.6	4	9.4	3	5.2					8	20.2
BASIS FOR COST ESTIMATE:												
NONRECURRING	1	3.7	1	2.8							2	6.5
KITS			3	4.8	3	5.1					6	9.9
DATA		1.9		1.7								3.6
SUPPORT EQUIP.		*		.1		.1						.2
TOTAL	1	5.6	4	9.4	3	5.2					8	20.2

METHOD OF IMPLEMENTATION: INSTALLATION - CONTRACTOR
LEAD TIME - 21 MONTHS

* LESS THAN $ 50,000

(157)

MODIFICATION OF AIRCRAFT
FY-83 PROGRAM

FY-83 APPROPRIATION: AIRCRAFT PROCURMENT, AIR FORCE

MODIFICATION TITLE AND NO: IMPROVED FLIGHT RECORDING SYSTEM, MM-19608A

MODELS OF AIRCRAFT AFFECTED: C-141A/B

DESCRIPTION/JUSTIFICATION: THE PRESENT SYSTEM RECORDS FOUR PARAMETERS ON FOIL. HIGH FAILURE RATE, ALONG WITH NO MEANS OF VERIFYING PROPER RECORDING OF DATA AND THE LIMITED NUMBER OF PARAMETER REQUIRE AN IMPROVED SYSTEM, TO PERMIT MORE COMPREHENSIVE ACCIDENT/INCIDENT INVESTIGATIONS. MOD INCLUDES: INSTALLATION OF A FLIGHT DATA ACQUISITION UNIT, AFT LOCATED RECORDER, AND COCKPIT VOICE RECORDER.

SCOPE OF PROGRAM:

	PRIOR		FY-82		FY-83		FY-84		OUTYEAR		T O T A L	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
	2	1.4	190	4.5	82	2.1					274	8.0
BASIS FOR COST ESTIMATE:												
NONRECURRING	1	.8									1	.8
KITS	1	*	190	4.5	82	2.1					273	6.6
DATA		.2										.2
TRAINER		.3										.3
SUPPORT EQUIP.		.1										.1
TOTAL	2	1.4	190	4.5	82	2.1					274	8.0

METHOD OF IMPLEMENTATION: INSTALLATION - DEPOT/FIELD TEAM
LEAD TIME - 9 MONTHS

* LESS THAN $ 50,000

MODIFICATION OF AIRCRAFT
FY-83 PROGRAM

FY-83 APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: FIRE/OVERHEAT DETECTION SYSTEM, MM-68033B

MODELS OF AIRCRAFT AFFECTED: C-141

DESCRIPTION/JUSTIFICATION: THE EXISTING SYSTEM HAS ENCOUNTERED NUMEROUS SENSING ELEMENT PROBLEMS WHICH ARE INHERENT TO AN ELECTRICAL TYPE SYSTEM, SUCH AS FALSE ALARMS, CAUSING ENGINE SHUTDOWNS, FIRE EXTINGUISHERS TO BE DISCHARGED, AND MISSION ABORTS. THE NEW GAS TYPE SYSTEM INCLUDES REPLACEMENT OF SENSING ELEMENTS, FLEXIBLE CABLES AND CONTROL BOXES. PRESENT SYSTEM AVERAGES 50 AIR ABORTS PER YEAR, EXPOSING CREWS AND PASSENGERS TO UNNECESSARY RISKS. FALSE ALARMS WILL BE VIRTUALLY ELIMINATED AND THE SYSTEM WILL BE LESS COSTLY TO MAINTAIN.

SCOPE OF PROGRAM:

	PRIOR		FY-82		FY-83		FY-84		OUTYEAR		T O T A L	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
	2	.1	132	2.6	140	3.0					274	5.
BASIS FOR COST ESTIMATE:												
NONRECURRING	1	.1									1	.
KITS	1	*	132	2.5	140	3.0					273	5.
DATA		*										*
TRAINER				.1								.
TOTAL	2	.1	132	2.6	140	3.0					274	5.

METHOD OF IMPLEMENTATION: INSTALLATION - ORG/INTERMEDIATE
LEAD TIME - 7 MONTHS

* LESS THAN $ 50,000

MODIFICATION OF AIRCRAFT
FY-83 PROGRAM

FY-83 APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: EJECTION SEAT SEQUENCE, MN-18203A

MODELS OF AIRCRAFT AFFECTED: T-38

DESCRIPTION/JUSTIFICATION: INSTALLS AN EJECTION INTERSEAT SEQUENCING SYSTEM THAT CAN BE INITIATED FROM EITHER SEAT POSITION, EJECTION SEAT DIVERGENCE, AN ALL GAS ACTUATED SEAT/MAN SEPARATION SYSTEM, AND A BALLISTIC POWERED INERTIAL REEL. THIS MOD WILL INSURE CORRECT EJECTION POSTUR WILL ELIMINATE SEAT/MAN SEPARATOR FIRING LANYARD ENTANGLEMENT OR PREMATURE ACTUATION AND PREVENT COLLISION OF EJECTED CREW MEMBERS.

SCOPE OF PROGRAM:

	PRIOR		FY-82		FY-83		FY-84		OUTYEAR		T O T A L	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
	1	.5	359	5.1	525	5.8					885	11.4
BASIS FOR COST ESTIMATE:												
NONRECURRING	1	.5									1	.5
KITS			359	4.9	525	5.8					884	10.7
TRAINER				.1								.1
SUPPORT EQUIP.				*		*						*
TOOLING				.1								.1
TOTAL	1	.5	359	5.1	525	5.8					885	11.4

METHOD OF IMPLEMENTATION: INSTALLATION - DEPOT/CONTRACTOR
LEAD TIME - 15 MONTHS

* LESS THAN $ 50,000

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MODIFICATION OF AIRCRAFT
FY-83 PROGRAM

FY-83 APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: WING RESKIN, MN-19316A

MODELS OF AIRCRAFT AFFECTED: T-39

DESCRIPTION/JUSTIFICATION: THIS MOD WILL RE-SKIN AIRCRAFT WINGS TO EXTEND STRUCTURAL FATIGUE LIFE FROM 22,500 HOURS TO 45,000 HOURS. NEW SKIN WILL POSSESS SUPERIOR CRACK TOLERANCE CHARACTERISTICS.

SCOPE OF PROGRAM.

	PRIOR		FY-82		FY-83		FY-84		OUTYEAR		T O T A L	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
	---	----	---	----	---	----	---	----	---	----	-----	----
					1	7.4	9	.7	126	5.6	136	13.
BASIS FOR COST ESTIMATE:												
NONRECURRING					1	7.4					1	7.
KITS							9	.6	126	5.6	135	6.
DATA								.1				.
TOTAL					1	7.4	9	.7	126	5.6	136	13.

METHOD OF IMPLEMENTATION: INSTALLATION - DEPOT
LEAD TIME - 12 MONTHS

MODIFICATION OF AIRCRAFT
FY-83 PROGRAM

FY-83 APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: VINSON TAC SECURE VOICE, MN-3025

MODELS OF AIRCRAFT AFFECTED: C-130

DESCRIPTION/JUSTIFICATION: VINSON SECURE VOICE PROVIDES ON-LINE ENCRYPTION/DECRYPTION OF VHF/UHF AM/FM HALF-DUPLEX RADIO FOR ALL CLASSIFICATION OF TRAFFIC. THE TSEC/KY-58 IS DESIGNED FOR OPERATION IN AIRCRAFT INSTRUMENT PANELS OR RADIO-CONSOLE CONTROL PANELS, OR IT MAY BE LOCAT IN EQUIPMENT BAYS AND OPERATED BY A REMOTE CONTROL UNIT (RCU).

SCOPE OF PROGRAM:

	PRIOR		FY-82		FY-83		FY-84		OUTYEAR		T O T A L	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COS
			82	2.0	216	7.2	216	4.5	207	4.5	721	18
BASIS FOR COST ESTIMATE:												
NONRECURRING			11	.6							11	
KITS			71	1.0	216	4.3	216	4.5	207	4.5	710	14
DATA				.2								
TRAINER				.2		.5						
USC-15 CAPSULE						2.4						2
TOTAL			82	2.0	216	7.2	216	4.5	207	4.5	721	18

METHOD OF IMPLEMENTATION: INSTALLATION - DEPOT/CONTRACTOR
LEAD TIME - 18 MONTHS

MODIFICATION OF AIRCRAFT
FY-83 PROGRAM

FY-83 APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: SKE ENHANCEMENT, MM-3033

MODELS OF AIRCRAFT AFFECTED: C-130

DESCRIPTION/JUSTIFICATION: PROCURES NEW EQUIPMENT TO PROVIDE IMPROVED FORMATION POSITIONING, CONTROL, AND AIRDROP IN ADVERSE WEATHER CONDITIONS. THE NEW EQUIPMENT WILL ELIMINATE HAZARDOUS FREQUENCY INTERFERENCE INHERENT IN PRESENT EQUIPMENT. THIS EQUIPMENT REPLACES TI OLDER EQUIPMENT THAT DISPLAYS NON-EXISTENT TARGETS ON STATION KEEPING SCOPES AND GIVES FALS PROXIMITY WARNINGS AND INCORRECT SYSTEM PROBLEM INDICATIONS.

SCOPE OF PROGRAM:

	PRIOR		FY-82		FY-83		FY-84		OUTYEAR		T O T A L	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
					6	2.1	106	21.0	266	36.6	378	59
BASIS FOR COST ESTIMATE:												
NONRECURRING					3	.8					3	
KITS					3	.3	106	12.7	266	30.1	375	4
DATA						.5						
TRAINER						.5		.7				
SUPPORT EQUIP.								3.6		6.5		1
MOD OF SPARES								4.0				
TOTAL					6	2.1	106	21.0	266	36.6	378	5

METHOD OF IMPLEMENTATION: INSTALLATION - DEPOT/FIELD TEAM
LEAD TIME - 18 MONTHS

MODIFICATION OF AIRCRAFT
FY-83 PROGRAM

FY-83 APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: PARKHILL TAC SECURE VOICE, MM-3063

MODELS OF AIRCRAFT AFFECTED: C-130

DESCRIPTION/JUSTIFICATION: PARKHILL SECURE VOICE PROVIDES ON-LINE ENCRYPTION/DECRYPTION OF HF NARROW BAND FREQUENCY RANGES UP TO THE SECRET LEVEL. THE TSEC/KY-75 IS DESIGNED FOR OPERAT IN ALL AIRCRAFT APPLICATIONS.

SCOPE OF PROGRAM:

	PRIOR		FY-82		FY-83		FY-84		OUTYEAR		T O T A L	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COS
			82	2.6	216	6.4	216	6.0	207	5.9	721	20
BASIS FOR COST ESTIMATE:												
NONRECURRING			11	.7							11	
KITS			71	1.6	216	5.8	216	6.0	207	5.9	710	19
DATA				.2								
TRAINER				.1		.6						
TOTAL			82	2.6	216	6.4	216	6.0	207	5.9	721	20

METHOD OF IMPLEMENTATION: INSTALLATION - DEPOT/CONTRACTOR
LEAD TIME - 18 MONTHS

(16.4)

MODIFICATION OF AIRCRAFT
FY-83 PROGRAM

FY-83 APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: JOINT CRISIS MANAGEMENT CAPABILITY

MODELS OF AIRCRAFT AFFECTED: C-130

DESCRIPTION/JUSTIFICATION JCMC IS TO MEET THE THEATER COMMANDERS NEEDS FOR AN IMPROVED, QUICK REACTION CRISIS MANAGEMENT CAPABILITY.

SCOPE OF PROGRAM:

	PRIOR		FY-82		FY-83		FY-84		OUTYEAR		T O T A L	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
					1	4.0		1.0	65	10.1	66	15
BASIS FOR COST ESTIMATE:												
NONRECURRING					1	3.3					1	
KITS									65	10.1	65	1
DATA						.5						
SUPPORT EQUIP.						.2		1.0				
TOTAL					1	4.0		1.0	65	10.1	66	15

METHOD OF IMPLEMENTATION: INSTALLATION - ORG/INTERMEDIATE
LEAD TIME - 6 MONTHS

(163)

MODIFICATION OF AIRCRAFT
FY-83 PROGRAM

FY-83 APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: SEEK TALK (EC)

MODELS OF AIRCRAFT AFFECTED: EC-130

DESCRIPTION/JUSTIFICATION:

SEEK TALK PROVIDES AN ADVA
TECHNOLOGY JAM-RESISTANT UHF VOICE COMMUNICATION SYSTEM LESS SENSITIVE TO THE EVOLUTION OF JAMMING TECHNIQUES TO PROVIDE A JAM-RESISTANT CAPABILITY SATISFYING THE URGENT OPERATIONAL REQUIREMENT.

SCOPE OF PROGRAM:

	PRIOR		FY-82		FY-83		FY-84		OUTYEAR		T O T A L	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
							1	12.8	6	23.1	7	35.9
BASIS FOR COST ESTIMATE:												
NONRECURRING							1	12.0			1	12.0
KITS									6	19.8	6	19.8
DATA								.8		1.9		2.7
SUPPORT EQUIP.										1.4		1.4
TOTAL							1	12.8	6	23.1	7	35.9

METHOD OF IMPLEMENTATION: INSTALLATION - DEPOT
LEAD TIME - 36 MONTHS

MODIFICATION OF AIRCRAFT
FY-83 PROGRAM

FY-83 APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: SOF IMPROVEMENTS

MODELS OF AIRCRAFT AFFECTED: MC-130E, AC-130H

DESCRIPTION/JUSTIFICATION: ESSENTIAL MODIFICATIONS TO SPECIAL OPERATIONS AIRCRAFT TO ACHIEVE REQUIRED CAPABILITIES AND IMPROVE SURVIVABILITY. UPDATED INERTIAL NAVIGATION SYSTEM FOR AC/MC-130S, IMPROVED FORWARD LOOKING INFRARED EQUIPMENT FOR MC-130S, TERRAIN FOLLOWING RADA AND IMPROVED FIRE CONTROL SYSTEM FOR AC-130S ARE REQUIRED FOR CRISIS RESPONSE AND UNCONVENTIONAL WARFARE ROLES. IMPROVED ELECTRONIC COUNTERMEASURES EQUIPMENT IS ESSENTIAL F SURVIVABILITY.

ED

SCOPE OF PROGRAM:

	PRIOR		FY-82		FY-83		FY-84		OUTYEAR		T O T A L	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COS
							4	12.1	30	73.4	34	85
BASIS FOR COST ESTIMATE:												
NONRECURRING							1	5.2	3	2.0	4	7
KITS							3	5.6	27	70.9	30	76
DATA								1.3		.5		1
TOTAL							4	12.1	30	73.4	34	85

METHOD OF IMPLEMENTATION: INSTALLATION - DEPOT
LEAD TIME - 12 MONTHS

167

DO NOT TYPE BEYOND THE BLUE LINES OR BOTTOM OR SIDES

MODIFICATION OF AIRCRAFT
FY-83 PROGRAM

FY-83 APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: FLIGHT DATA RECORDER, MN-10603A

MODELS OF AIRCRAFT AFFECTED: C-130

DESCRIPTION/JUSTIFICATION: FOUR C-130 MISHAPS DURING 1978, EACH INVOLVING LOSS OF AIRCRAFT AND HUMAN LIFE, EMPHASIZES THE NEED FOR A RECORDER SYSTEM. WHEN ALL CREW MEMBERS SUFFER FATAL INJURIES, THE ACCIDENT INVESTIGATION BOARD MEMBERS USUALLY HAVE TO SURMISE THEIR CONCLUSIONS AS TO CAUSE OF THE ACCIDENT. ACTION OFTEN LEADS TO EXPENSIVE FORCE RETROFITS OR FORCE DOWNTIMES WHICH MAY OR MAY NOT BE NECESSARY. A RECORDER SYSTEM WILL CUT UNNECESSARY RETROFITS CAUSED BY ACCIDENT INVESTIGATION BOAR. DIRECTIVES BASED UPON LIMITED DATA AND IDENTIFY NEEDED CHANGES TO PREVENT FUTURE OCCURANCES FROM THE SAME CAUSE.

SCOPE OF PROGRAM:

	PRIOR		FY-82		FY-83		FY-84		OUTYEAR		T O T A L	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
			14	1.2	170	5.2	240	8.1	301	11.6	725	26.1
BASIS FOR COST ESTIMATE:												
NONRECURRING			7	.5							7	.5
KITS			7	.3	170	4.6	240	6.9	301	9.8	718	21.6
DATA				.2								.2
TRAINER				.2		.1		.2		.3		.8
SUPPORT EQUIP.						.5		1.0		1.5		3.0
TOTAL			14	1.2	170	5.2	240	8.1	301	11.6	725	26.1

METHOD OF IMPLEMENTATION: INSTALLATION - DEPOT
LEAD TIME - 9 MONTHS

(E-F)

MODIFICATION OF AIRCRAFT
FY-83 PROGRAM

FY-83 APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: FUEL CELL FOAM, MM-10613A

MODELS OF AIRCRAFT AFFECTED: C-130

DESCRIPTION/JUSTIFICATION: INSTALLS MIL-B-83054B (BLUL) RETICULATED POLYESTER FOAM IN ALL FUEL CELLS/TANKS. REQUIRED TO PROVIDE EXPLOSION/FIRE SUPPRESSION FROM CAUSES SUCH AS: STRAY VOLTAGE, LIGHTNING STRIKES, HOSTILE ACTION FIRES, ETC. TWO C-130 LOSSES HAVE OCCURRED DUE T INTANK EXPLOSION WHICH MAY HAVE BEEN PREVENTED BY THE FOAM.

SCOPE OF PROGRAM:

	PRIOR		FY-82		FY-83		FY-84		OUTYEAR		T O T A L	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
	60	3.3	153	6.4	304	13.5	178	8.0			695	31.
BASIS FOR COST ESTIMATE:												
NONRECURRING	1	.3									1	.
KITS	59	3.0	153	6.4	304	13.5	178	8.0			694	30.
TOTAL	60	3.3	153	6.4	304	13.5	178	8.0			695	31.

METHOD OF IMPLEMENTATION: INSTALLATION - DEPOT/CFT
LEAD TIME - 5 MONTHS

(169)

MODIFICATION OF AIRCRAFT
FY-83 PROGRAM

FY-83 APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: FOUR BLADED PROPELLER, MP-11621B

MODELS OF AIRCRAFT AFFECTED: AC-130A, C-130L

DESCRIPTION/JUSTIFICATION: THESE TWENTY-ONE AC-130A/C-130D AIRCRAFT ARE THE ONLY C-130'S REMAINING IN THE INVENTORY WITH THREE BLADED PROPELLERS. SPARES FOR THESE AIRCRAFT WILL BE DEPLETED BY 1985, THEREFORE THEY MUST BE MODIFIED TO THE FOUR BLADED CONFIGURATION TO ASSURE CONTINUED SAFE OPERATION OF THE AIRCRAFT.

SCOPE OF PROGRAM:

	PRIOR		FY-82		FY-83		FY-84		OUTYEAR		T O T A L	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
					21	19.5					21	19.5
BASIS FOR COST ESTIMATE:												
NONRECURRING						.1						.1
KITS					21	19.3					21	19.3
DATA						.1						.1
TOTAL					21	19.5					21	19.5

METHOD OF IMPLEMENTATION: INSTALLATION - DEPOT
LEAD TIME - 16 MONTHS

(170)

MODIFICATION OF AIRCRAFT
FY-83 PROGRAM

FY-83 APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: AFTERBODY STRAKES, MN-11631B

MODELS OF AIRCRAFT AFFECTED: C-130 B/E/H/P

DESCRIPTION/JUSTIFICATION: STRAKES ARE NEEDED FOR DRAG REDUCTION AND FUEL CONSERVATION. PRIOR STUDIES INDICATE SUBSTANTIAL FUEL SAVINGS POSSIBLE AND AMORTIZATION POSSIBLE IN 2 TO 5 YEARS DEPENDING ON FUEL COSTS.

SCOPE OF PROGRAM:

	PRIOR		FY-82		FY-83		FY-84		OUTYEAR		T O T A L	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
			214	3.5	279	4.5	99	1.6			592	9.
BASIS FOR COST ESTIMATE:												
NONRECURRING			2	.2							2	
KITS			212	3.2	279	4.5	99	1.6			590	9.
DATA				.1								
TOOLING				*								
TOTAL			214	3.5	279	4.5	99	1.6			592	9.

METHOD OF IMPLEMENTATION: INSTALLATION - DEPOT
LEAD TIME - 15 MONTHS

* LESS THAN $ 50,000

(177)

MODIFICATION OF AIRCRAFT
FY-83 PROGRAM

FY-83 APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: COCKPIT VOICE RECORDER, MN-19607A

MODELS OF AIRCRAFT AFFECTED: C-130

DESCRIPTION/JUSTIFICATION: RECENT INCREASE IN ACCIDENTS INVOLVING LOSS OF AIRCRAFT AND LIFE, EMPHASIZE THE NEED FOR A RECORDER SYSTEM. WHEN THERE ARE NO SURVIVORS ACCIDENT INVESTIGATION BOARDS HAVE TO SURMISE THE CAUSES AND EVENTS LEADING TO THE ACCIDENT. IMPLEMENTED, THIS RECORDER SYSTEM WILL REDUCE UNNECESSARY MODIFICATIONS CAUSED BY DIRECTIVES WHICH ARE BASED ON SUCH LIMITED DATA.

SCOPE OF PROGRAM:

	PRIOR		FY-82		FY-83		FY-84		OUTYEAR		T O T A L	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
	14	.6	127	1.5	214	3.3	370	4.8			725	10.2
BASIS FOR COST ESTIMATE:												
NONRECURRING	8	.3									8	.3
KITS	6	.1	127	1.5	214	2.7	370	4.8			717	9.1
DATA		.2										.2
TRAINER						.6						.6
SUPPORT EQUIP.		*										*
TOTAL	14	.6	127	1.5	214	3.3	370	4.8			725	10.2

METHOD OF IMPLEMENTATION: INSTALLATION - DEPOT/FIELD TEAM/FIELD
LEAD TIME - 7 MONTHS

* LESS THAN $ 50,000

(172)

MODIFICATION OF AIRCRAFT
FY-83 PROGRAM

FY-83 APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: OUTER WING, MN-19610B

MODELS OF AIRCRAFT AFFECTED: C/HC-130B/E/H/P/N

DESCRIPTION/JUSTIFICATION: STRUCTURAL INTEGRITY DATA INDICATES REQUIREMENT FOR OUTER WING MODIFICATION DUE TO FATIGUE AND CORROSION PROBLEMS AT SEVERAL LOCATIONS ON THE WING. FAILUR HAVE OCCURRED IN THE OUTER WING LOWER FRONT BEAM CAPS, WITH RELATED CRACKS FOUND IN SPAR WE AND LOWER FORWARD WING SKIN PANELS AND STRESS CORROSION CRACKING HAS BEEN IDENTIFIED IN THE WING DRY BAYS. INTERIM SOLUTIONS OF REPAIRING OR REPLACING FAILED COMPONENTS HAVE BEEN IMPLEMENTED UNTIL THE WING BOXES CAN BE REPLACED.

SCOPE OF PROGRAM:

	PRIOR		FY-82		FY-83		FY-84		OUTYEAR		T O T A L	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
	7	19.8	74	56.5	105	86.5	70	68.3	239	260.9	495	492
BASIS FOR COST ESTIMATE:												
NONRECURRING		5.9										5
KITS	7	6.8	74	55.0	105	86.5	70	68.3	239	260.9	495	477
DATA		.5										
TOOLING		6.6		1.5								8
TOTAL	7	19.8	74	56.5	105	86.5	70	68.3	239	260.9	495	492

METHOD OF IMPLEMENTATION: INSTALLATION - DEPOT/PDM
LEAD TIME - 24 MONTHS

(175)

MODIFICATION OF AIRCRAFT
FY-83 PROGRAM

FY-83 APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: 100KW TRANSMITTER/TRANSVERSE ELECTRIC ANTENNA, MM-3050

MODELS OF AIRCRAFT AFFECTED: EC-135 C/H/J/P

DESCRIPTION/JUSTIFICATION: THE 100 KILOWATT TRANSMITTER IS A HIGHER POWER MODIFICATION TO CURREN AN/ARC-96 WHICH IS A 20 KILOWATT SYSTEM. THE 100KW TRANSMITTER WILL INCREASE RADIATED POWE OF THE VLF/LF TRANSMISSIONS FROM THE EC-135 BY SEVEN DB, PROVIDING A SIGNIFICANT INCREASE I RANGE OR IMPROVED PERFORMANCE IN HOSTILE CONDITIONS AT ANY GIVEN RANGE. THIS MOD ALSO INCLUDES INSTALLATION OF THE TRANSVERSE ELECTRIC (TE) ANTENNA TO ENHANCE THE AIR-TO-AIR RECEIVE CAPABILITY.

SCOPE OF PROGRAM:

	PRIOR		FY-82		FY-83		FY-84		OUTYEAR		T O T A L	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
			3	7.9	7	14.1	9	24.5			19	46
BASIS FOR COST ESTIMATE:												
KITS			3	5.8	7	14.1	9	21.0			19	46
DATA				1.0				3.5				
SUPPORT EQUIP.				1.1								
TOTAL			3	7.9	7	14.1	9	24.5			19	46

METHOD OF IMPLEMENTATION: INSTALLATION - DEPOT
LEAD TIME - 22 MONTHS

170

MODIFICATION OF AIRCRAFT
FY-83 PROGRAM

FY-83 APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: NUCLEAR HARDENING/SECURE VOICE, MM-3070

MODELS OF AIRCRAFT AFFECTED: EC-135

DESCRIPTION/JUSTIFICATION: ELECTRO MAGNETIC PULSE (EMP) ASSESSMENT OF THE EC-135 IN ADDITION, THE MODIFICATION PROVIDES SECURE AIR-TO-AIR AND AIR-TO-GROUND UHF/VHF/HF VOICE COMMUNICATIONS FOR FLIGHT CREW AND BATTLE STAFF POSITIONS IN THE EC-135 AIRBORNE COMMAND POST AIRCRAFT.

SCOPE OF PROGRAM:

	PRIOR		FY-82		FY-83		FY-84		OUTYEAR		T O T A L	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
	1	12.2			4	13.7	6	25.8	27	117.8	38	169.
BASIS FOR COST ESTIMATE:												
NONRECURRING	1	11.7				1.0		1.1		.3	1	14.
KITS					4	10.6	6	17.3	27	110.4	37	138.
DATA		.5				.7		.9		3.6		5.
SUPPORT EQUIP.						1.4		6.5		3.5		11.
TOTAL	1	12.2			4	13.7	6	25.8	27	117.8	38	169.

METHOD OF IMPLEMENTATION: INSTALLATION - DEPOT/CONTRACTOR
LEAD TIME - 24 MONTHS

175

MODIFICATION OF AIRCRAFT
FY-83 PROGRAM

FY-83 APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: RE-ENGINE CFM-56

MODELS OF AIRCRAFT AFFECTED: KC-135 A/Q

DESCRIPTION/JUSTIFICATION: RE-ENGINING THE KC-135, ALONG WITH LANDING GEAR AND OTHER CONCURRENT UPGRADING MODIFICATIONS, WILL EXTEND THE USEFUL LIFE OF THE TANKERS INTO THE 21ST CENTURY. TH MODIFICATION WILL REDUCE FUEL CONSUMPTION BY 25 PERCENT, ALLOW TAKEOFF WITH LARGER FUEL LOAD, THUS PERMITTING OFFLOAD OF MORE FUEL TO RECEIVER AIRCRAFT. THE RE-ENGINED KC-135 WILL HAVE TH CAPABILITY OF 1.5 CURRENT KC-135A'S. THE NEW HIGH TECHNOLOGY CFM56 ENGINES WILL RELIEVE THE SE NOISE AND EMISSIONS PROBLEMS CURRENTLY ENCOUNTERED.

SCOPE OF PROGRAM:

	PRIOR		FY-82		FY-83		FY-84		OUTYEAR		T O T A L	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
	1	106.0	9	234.0	20	490.6	60	1175.3	210	4080.4	300	6086.3
BASIS FOR COST ESTIMATE:												
NONRECURRING		5.0				13.0						18.0
KITS	1	34.0	9	124.2	20	247.6	60	506.7	210	738.5	300	2659.0
DATA				8.5		2.0		4.0		18.0		32.5
TRAINER								2.0		8.0		10.0
SUPPORT EQUIP.				8.3		13.0		90.0		114.0		225.3
TOOLING		59.0		19.0								78.0
ENGINE	(4)	8.0	(36)	68.0	(80)	205.0	(240)	523.0	(840)	2044.0	(1200)	2840.0
ECO				6.0		10.0		49.6		157.9		223.5
TOTAL	1	106.0	9	234.0	20	490.6	60	1175.3	210	4080.4	300	6086.3

METHOD OF IMPLEMENTATION: INSTALLATION - CONTRACTOR
LEAD TIME - 36 MONTHS

172

(176)

MODIFICATION OF AIRCRAFT
FY-83 PROGRAM

FY-83 APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: STANDARD VHF AM/FM RADIO

MODELS OF AIRCRAFT AFFECTED: C/KC/EC/RC/WC-135

DESCRIPTION/JUSTIFICATION: SELECTED AIRCRAFT ARE AFFECTED BY THE FAA AND THE ICAO IMPLEMENTATI
1 JANUARY 1977 OF 25KHZ CHANNEL COMMUNICATION WHERE VHF/AM IS THE PRIMARY FREQUENCY BAND
CIVILIAN/MILITARY AIR TRAFFIC CONTROL. THIS MODIFICATION WILL PROVIDE FOR IMPROVED
RELIABILITY AND MAINTAINABILITY AND MEETS FAA/ICAO REQUIREMENTS. C-135 AIRCRAFT ARE OPE
UNDER WAIVERS AT CERTAIN LOCATIONS AT PRESENT.

SCOPE OF PROGRAM:

	PRIOR		FY-82		FY-83		FY-84		OUTYEAR		T O T
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY
			127	3.1	168	3.4	168	3.0	212	4.2	675
BASIS FOR COST ESTIMATE:											
NONRECURRING			2	.3							2
KITS			125	2.0	168	2.8	168	3.0	212	4.2	673
DATA				.4							
TRAINER						.3					
SUPPORT EQUIP.				.4		.3					
TOTAL			127	3.1	168	3.4	168	3.0	212	4.2	675

METHOD OF IMPLEMENTATION: INSTALLATION - DEPOT/PDM
LEAD TIME - 12 MONTHS

(177

MODIFICATION OF AIRCRAFT
FY-83 PROGRAM

FY-83 APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: DIVERSITY RECEPTION EQUIPMENT

MODELS OF AIRCRAFT AFFECTED: EC-135

DESCRIPTION/JUSTIFICATION: THE DIVERSITY RECEPTION EQUIPMENT (DRE) IS A MODIFICATION TO THE AN/ALR-96 VLF/LF SYSTEM. A TWO CHANNEL PROCESSOR WILL BE INCORPORATED TO COMBINE THE PRESEN VERTICALLY POLARIZED SIGNALS WITH THE NEW HORIZONTALLY POLARIZED SIGNALS.

SCOPE OF PROGRAM:

	PRIOR		FY-82		FY-83		FY-84		OUTYEAR		T O T A L	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
							2	3.9	26	26.5	28	30.
BASIS FOR COST ESTIMATE:												
NONRECURRING							2	2.0		2.0	2	4.
KITS									26	20.6	26	20.
DATA								.9		.9		1.
SUPPORT EQUIP.								1.0		3.0		4.
TOTAL							2	3.9	26	26.5	28	30.

METHOD OF IMPLEMENTATION: INSTALLATION - DEPOT/FIELD TEAM
LEAD TIME - 18 MONTHS

MODIFICATION OF AIRCRAFT
FY-83 PROGRAM

FY-83 APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: FUEL SAVINGS ADVISORY SYSTEM, MM-10402L

MODELS OF AIRCRAFT AFFECTED: C-135

DESCRIPTION/JUSTIFICATION: INSTALLS AN OFF-THE-SHELF FUEL SAVINGS ADVISORY SYSTEM. DECLINING OIL RESERVES AND INCREASING FUEL COSTS DICTATE FUEL CONSERVATION TO THE MAXIMUM EXTENT POSSIBLE.

SCOPE OF PROGRAM:

	PRIOR		FY-82		FY-83		FY-84		OUTYEAR		T O T A L	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
	21	6.1	337	37.6	300	32.3	69	23.8			727	99.
BASIS FOR COST ESTIMATE:												
NONRECURRING	1	1.1									1	1.
KITS	20	2.1	337	34.0	300	32.3	69	22.9			726	91.
DATA		2.2						.9				3.
SUPPORT EQUIP.		.7		3.0								3.
TRAINER				.6								*
TOTAL	21	6.1	337	37.6	300	32.3	69	23.8			727	99.

METHOD OF IMPLEMENTATION: INSTALLATION - DEPOT/FIELD TEAM
LEAD TIME - 12 MONTHS

* LESS THAN $ 50,000

MODIFICATION OF AIRCRAFT
FY-83 PROGRAM

FY-83 APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: MB-26 SIMULATOR UPGRADE, MM-10508b

MODELS OF AIRCRAFT AFFECTED: C-135

DESCRIPTION/JUSTIFICATION: THIS MODIFICATION WILL REMOVE ALL ANALOG COMM/NAV EQUIPMENT AND REPLACE IT WITH DIGITAL OFF-THE-SHELF, STATE-OF-THE-ART COMPUTATION SYSTEMS AND EQUIPMENT WHICH CAN SIMULATE CURRENT AND PROPOSED AIRCRAFT COMM/NAV SYSTEMS. THIS MODIFICATION IS REQUIRED TO INSURE COCKPIT CONFIGURATION CURRENCY AND LOGISTIC SUPPORTABILITY.

SCOPE OF PROGRAM:

	PRIOR		FY-82		FY-83		FY-84		OUTYEAR		T O T A L	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
					12	4.1	5	1.9			17	6.
BASIS FOR COST ESTIMATE:												
KITS					12	4.1	5	1.9			17	6.
TOTAL					12	4.1	5	1.9			17	6.

METHOD OF IMPLEMENTATION: INSTALLATION - DEPOT
LEAD TIME - 9 MONTHS

* LESS THAN $ 50,000

MODIFICATION OF AIRCRAFT
FY-83 PROGRAM

FY-83 APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: LIFE EXTENSION-WING RESKIN, MN-14302b

MODELS OF AIRCRAFT AFFECTED: C-135

DESCRIPTION/JUSTIFICATION: SERVICE LIFE OF C-135 AIRCRAFT IS 8,500 TANKER EQUIVALENT FLYING HOURS REPLACEMENT OF LOWER WING SKIN IS REQUIRED TO ALLOW THE AIRCRAFT TO MEET PROGRAMMED SERVICE LIFE. FLIGHT RESTRICTIONS HAVE BEEN PLACED ON ALL AIRCRAFT EXCEEDING 8,500 FLIGHT HOURS. MODIFICATION INSTALLS 2024-T351 MATERIAL WHICH HAS SUPERIOR CRACK TOLERANCE CHARACTERISTICS.

SCOPE OF PROGRAM:

	PRIOR		FY-82		FY-83		FY-84		OUTYEAR		T O T A L	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
	389	138.8	72	40.9	72	53.0	72	47.5	144	108.2	749	388.
BASIS FOR COST ESTIMATE:												
NONRECURRING		1.0		2.5								3.
KITS	389	135.4	72	35.6	72	41.8	72	45.5	144	108.2	749	366.
DATA		.5		2.8				2.0				5.
TOOLING		1.9										1.
COMPONENT MOD						11.2						11
TOTAL	389	138.8	72	40.9	72	53.0	72	47.5	144	108.2	749	388.

METHOD OF IMPLEMENTATION: INSTALLATION - DEPOT
LEAD TIME - 22 MONTHS

(151)

MODIFICATION OF AIRCRAFT
FY-83 PROGRAM

FY-8 APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: FUME DETECTORS, MM-41418B

MODELS OF AIRCRAFT AFFECTED: E-3

DESCRIPTION/JUSTIFICATION: THERE ARE NO FUME DETECTORS IN THE LOWER LOBES. INSTALLATION OF DETECTORS IN THE LOWER LOBES WOULD PROVIDE A CAPABILITY FOR EARLY WARNING OF FIRE TO MINIMIZ DAMAGE TO EQUIPMENT AND POTENTIAL HAZARD TO PERSONNEL.

SCOPE OF PROGRAM:

	PRIOR		FY-82		FY-83		FY-84		OUTYEAR		T O T A L	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
							34	2.7			34	2.
BASIS FOR COST ESTIMATE:												
KITS							34	2.6			34	2
DATA								.1				
TOTAL							34	2.7			34	2

METHOD OF IMPLEMENTATION: INSTALLATION - DEPOT
LEAD TIME - 24 MONTHS

MODIFICATION OF AIRCRAFT
FY-83 PROGRAM

FY-83 APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: BLOCK 20/25 IMPROVEMENTS

MODELS OF AIRCRAFT AFFECTED: E-3A

DESCRIPTION/JUSTIFICATION: ENHANCES E-3A CAPABILITY BY PROVIDING A JOINT TACTICAL INFORMATION DISTRIBUTION SYSTEM TERMINAL, ADDITIONAL SITUATION DISPLAY CONSOLES, 5 ADDED UHF RADIOS, A N COMMAND CONSOLE FUNCTIONAL GROUP, AND EXPANDED COMPUTER MEMORY (INCLUDES CC-2 COMPUTER).

SCOPE OF PROGRAM:

	PRIOR		FY-82		FY-83		FY-84		OUTYEAR		T O T A L	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
				12.9	11	126.4	14	148.3	7	77.2	32	364.
BASIS FOR COST ESTIMATE:												
KITS					11	122.9	14	142.2	7	76.5	32	341.
DATA						1.3		1.0		.6		2.
TRAINER				8.9				4.9				13.
SUPPORT EQUIP.				4.0		2.2		.2		.1		6.
TOTAL				12.9	11	126.4	14	148.3	7	77.2	32	364.

METHOD OF IMPLEMENTATION: INSTALLATION - CONTRACTOR
LEAD TIME - 27 MONTHS

(83)

MODIFICATION OF AIRCRAFT
FY-83 PROGRAM

FY-83 APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: ECCM IMPROVEMENTS

MODELS OF AIRCRAFT AFFECTED: E-3A

DESCRIPTION/JUSTIFICATION: THIS PROGRAM IS CLASSIFIED AND RESTRICTED ACCESS. DETAILS WILL BE FURNISHED ON A NEED TO KNOW BASIS.

SCOPE OF PROGRAM:

	PRIOR		FY-82		FY-83		FY-84		OUTYEAR		T O T A L	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
			6	4.1	24	17.5	4	3.0			34	24.6
BASIS FOR COST ESTIMATE:												
KITS			6	4.1	24	17.5	4	3.0			34	24.6
TOTAL			6	4.1	24	17.5	4	3.0			34	24.6

METHOD OF IMPLEMENTATION: INSTALLATION - FIELD TEAM
LEAD TIME - 9 MONTHS

MODIFICATION OF AIRCRAFT
FY-83 PROGRAM

FY-83 APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO. SEEK TALK

MODELS OF AIRCRAFT AFFECTED: E-3

DESCRIPTION/JUSTIFICATION:

SEEK TALK PROVIDES AN ADVANCED TECHNOLOGY JAM-RESISTANT UHF VOICE COMMUNICATION SYSTEM LESS SENSITIVE TO THE EVOLUTION OF JAMMING TECHNIQUES TO PROVIDE A JAM-RESISTANT CAPABILITY SATISFYING THE URGENT OPERATIONAL REQUIREMENT.

SCOPE OF PROGRAM:

	PRIOR		FY-82		FY-83		FY-84		SUBYEAR		TOTAL	
	QTY	COST	TY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
	---	----	---	----	---	----	---	----	---	----	-----	-----
							5	31.6	28	101.1	33	132.7
BASIS FOR COST ESTIMATE:												
KITS							5	24.4	28	94.7	33	119.1
DATA								7.0		6.2		13.2
SUPPORT EQUIP.								.2		.2		.4
TOTAL							5	31.6	28	101.1	33	132.7

METHOD OF IMPLEMENTATION: INSTALLATION - DEPOT
LEAD TIME - 24 MONTHS

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MODIFICATION OF AIRCRAFT
FY-83 PROGRAM

FY-83 APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: RDC PADDLE BOARDS, MM-41417B

MODELS OF AIRCRAFT AFFECTED: E-3A

DESCRIPTION/JUSTIFICATION. THIS WILL REMOVE PADDLE BOARDS USED TO CONNECT SUPPORT EQUIPMENT (SE) T
THE RADAR FROM THE SE AND PERMANENTLY INSTALL THEM IN THE RADAR REMOTE DISPLAY CONSOLE (RDC).
THE NEW CONFIGURATION WILL REDUCE DAMAGE TO THE BOARDS DUE TO FREQUENT INSTALLATION AND REMOV
FROM THE RDC, RESULTING IN REDUCED LIFE CYCLE COSTS THAT WILL AMORTIZE THE MODIFICATION.

SCOPE OF PROGRAM:

	PRIOR		FY-82		FY-83		FY-84		OUTYEAR		T O T A L	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
					34	4.1					34	4.1
BASIS FOR COST ESTIMATE:												
NONRECURRING						1.0						1.0
KITS					34	3.1					34	3.1
TOTAL					34	4.1					34	4.1

METHOD OF IMPLEMENTATION: INSTALLATION - FIELD
LEAD TIME - 12 MONTHS

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MODIFICATION OF AIRCRAFT
FY-83 PROGRAM

FY-83 APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: PERMANENTLY INSTALL FAMAS, MN-41420B

MODELS OF AIRCRAFT AFFECTED: E-3A

DESCRIPTION/JUSTIFICATION: FORCED AIR MONITER AND ALARM SYSTEM (FAMAS) THE CURRENT MANUAL CARRY O
TEST EQUIPMENT REQUIRES TWO MAN-HOURS TO HOOK UP. ON GROUND USE WILL ELIMINATE COSTLY
OVERHEAT AVIONIC CONDITIONS WHICH REQUIRES MANHOURS AND REPLACEME..T ELECTRONIC EQUIPMENT TO
CORRECT. ADDITIONALLY, IN FLIGHT MONITORING WHICH DOES NOT CURRENTLY EXIST WILL PROVIDE AIR
FLOW RATES THROUGH RACK E-20, E-21, E-22, AND E-23.

SCOPE OF PROGRAM:

	PRIOR		FY-82		FY-83		FY-84		OUTYEAR		T O T A L	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
							34	3.8			34	3.
BASIS FOR COST ESTIMATE:												
KITS							34	3.5			34	3.
TRAINER								.3				.
TOTAL							34	3.8			34	3.

METHOD OF IMPLEMENTATION: INSTALLATION - DEPOT
LEAD TIME - 12 MONTHS

(157)

MODIFICATION OF AIRCRAFT
FY-83 PROGRAM

FY-83 APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: AUTOMATIC DATA PROCESSING (ADP), MM-3060

MODELS OF AIRCRAFT AFFECTED: E-4B

DESCRIPTION/JUSTIFICATION: PROVIDES IMPROVED BATTLE STAFF MANAGEMENT CAPABILITY; CRITICAL AND TIM SENSITIVE INFORMATION TO THE NATIONAL COMMAND AUTHORITY, AND A CREDIBLE MEANS OF PROSECUTING THE SINGLE INTEGRATED OPERATIONAL PLAN (SIOP). ADP WILL ACCOMPLISH THIS BY REDUCING THE MANUAL MANIPULATION OF SIOP DATA. THE ADP SYSTEM WILL CONSIST OF MINI-COMPUTER, MASS STORAG DISPLAY DEVICES, PRINTERS AND INTERFACES TO ON-BOARD COMMUNICATIONS EQUIPMENT.

SCOPE OF PROGRAM:

	PRIOR		FY-82		FY-83		FY-84		OUTYEAR		T O T A L	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
	1	3.9			2	4.9	1	5.3			4	14.
BASIS FOR COST ESTIMATE:												
NONRECURRING	1	1.3						1.4			1	3.
KITS					2	4.0	1	2.5			3	6.
DATA		1.4						.4				1.
SUPPORT EQUIP.		.3										.
MOD OF SPARES		.4				.9		1.0				2.
TOTAL	1	3.9			2	4.9	1	5.3			4	14.

METHOD OF IMPLEMENTATION: INSTALLATION - CONTRACTOR
LEAD TIME - 9 MONTHS

(155)

MODIFICATION OF AIRCRAFT
FY-83 PROGRAM

FY-83 APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: TE ANTENNA/DIVERSITY RECEPTION EQUIPMENT

MODELS OF AIRCRAFT AFFECTED: E-4

DESCRIPTION/JUSTIFICATION: TRANSVERSE ELECTRIC (TE) ANTENNA WILL PERMIT RECEPTION OF HORIZONTALLY POLARIZED VLF AND LF SIGNALS ON THE E-4. THE DIVERSITY RECEPTION EQUIPEMNT (DRE) IS A MODIFICATION TO THE AN/ARC-96 VLF/LF SYSTEM. A TWO-CHANNEL PROCESSOR WILL BE INCORPORATED TO COMBINE THE PRESENT VERTICALLY POLARIZED SIGNALS WITH THE NEW HORIZONTALLY POLARIZED SIGNALS

SCOPE OF PROGRAM:

	PRIOR		FY-82		FY-83		FY-84		OUTYEAR		T O T A L	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
							1	2.7	3	17.4	4	20.
BASIS FOR COST ESTIMATE:												
NONRECURRING							1	2.5	1	6.6	2	9.
KITS									2	10.5	2	10.
DATA								.2		.3		.
TOTAL							1	2.7	3	17.4	4	20.

METHOD OF IMPLEMENTATION: INSTALLATION - DEPOT/FIELD TEAM
LEAD TIME - 18 MONTHS

MODIFICATION OF AIRCRAFT
FY-83 PROGRAM

FY-83 APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: COMBAT RESCUE

MODELS OF AIRCRAFT AFFECTED: H-3

DESCRIPTION/JUSTIFICATION: THE ALE-40 CHAFF/FLARE DISPENSER MODIFICATION WILL ENHANCE THE CAPABILITY TO RESCUE DOWNED AIRCREW MEMBERS IN HIGHLY DEFENDED AREAS REQUIRING ECM/IRCM CAPABILITY.

SCOPE OF PROGRAM:

	PRIOR		FY-82		FY-83		FY-84		OUTYEAR		T O T A L	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
							23	2 4			23	2
BASIS FOR COST ESTIMATE:												
KITS							23	1.7			23	1
SUPPORT EQUIP.								.7				
TOTAL							23	2.4			23	2

METHOD OF IMPLEMENTATION: INSTALLATION - CONTRACTOR/FIELD TEAM
LEAD TIME - 12 MONTHS

(190)

MODIFICATION OF AIRCRAFT
FY-83 PROGRAM

FY-83 APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: SEEK TALK

MODELS OF AIRCRAFT AFFECTED: OV-10

DESCRIPTION/JUSTIFICATION:

SEEK TALK PROVIDES AN ADVA
TECHNOLOGY JAM-RESISTANT UHF VOICE COMMUNICATION SYSTEM LESS SENSITIVE TO THE EVOLUTION OF JAMMING TECHNIQUES TO PROVIDE A JAM-RESISTANT CAPABILITY SATISFYING THE URGENT OPERATIONAL REQUIREMENT.

SCOPE OF PROGRAM:

	PRIOR		FY-82		FY-83		FY-84		OUTYEAR		T O T A L	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
						3.5	18	8.6	55	15.0	73	27.
BASIS FOR COST ESTIMATE:												
NONRECURRING						3.5						3.
KITS							18	8.1	55	14.1	73	22.
DATA								.3		.7		1.
SUPPORT EQUIP.								.2		.2		.
TOTAL						3.5	18	8.6	55	15.0	73	27.

METHOD OF IMPLEMENTATION: INSTALLATION - DEPOT
LEAD TIME - 36 MONTHS

(191)

MODIFICATION OF AIRCRAFT
FY-83 PROGRAM

FY-83 APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: VINSON TAC SECURE VOICE, MN-3040

MODELS OF AIRCRAFT AFFECTED: MULTI AN/ARC-164

DESCRIPTION/JUSTIFICATION: VINSON SECURE VOICE PROVIDES ON-LINE ENCRYPTION/DECRYPTION OF VHF/UHF AM/FM HALF-DUPLEX RADIO FOR ALL CLASSIFICATION OF TRAFFIC. THE TSEC/KY-58 IS DESIGNED FOR OPERATION IN AIRCRAFT INSTRUMENT PANELS OR RADIO-CONSOLE CONTROL PANELS, OR IT MAY BE LOCATED IN EQUIPMENT BAYS AND OPERATED BY A REMOTE CONTROL UNIT (RCU). THIS MODIFICATION ENABLES THE AN/ARC-164 UHF RADIO TO OPERATE IN THE 25 KHZ BASEBAND MODE WITH THE VINSON EQUIPMENT.

SCOPE OF PROGRAM:

	PRIOR		FY-82		FY-83		FY-84		OUTYEAR		T O T A L	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
	9072	9.4			7578	8.2	5109	6.3			21759	23.9
BASIS FOR COST ESTIMATE:												
NONRECURRING		.4										.4
KITS	9072	7.7			7578	8.2	5109	6.3			21759	22.2
DATA		1.3										1.3
TOTAL	9072	9.4			7578	8.2	5109	6.3			21759	23.9

METHOD OF IMPLEMENTATION: INSTALLATION - FIELD
LEAD TIME - 6 MONTHS

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MODIFICATION OF AIRCRAFT
FY-83 PROGRAM

FY-83 APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: CHEM/BIO (HELMET), MN-3105

MODELS OF AIRCRAFT AFFECTED: MULTI

DESCRIPTION/JUSTIFICATION: PROCUREMENT OF CHEMICAL WARFARE EQUIPMENT (SECOND GENERATION AIRCREW EYE/RESPIRATORY SYSTEMS) REQUIRES AIRCRAFT MIDIFICATION FOR USE OF THE IMPROVED PROTECTIVE SYSTEMS. THE MOD CONSISTS OF REMOVING THE OXYGEN REGULATOR AND REPLACING IT WITH A FILTER/BLOWER UNIT, RUNNING AN ADDITIONAL AIR HOSE TO THE CREW MEMBER AND ATTACHING A QUICK DISCONNECT ASSEMBLY. THE OXYGEN REGULATOR WILL BE REPLACED BY A NEW DESIGN, POSITIVE PRESSURE REGULATOR WORN INLINE AND ATTACHED TO THE AIRCREW. MOD AFFECTS A-10, F-15, F-16, F-4, F-5, F-111, A-7.

SCOPE OF PROGRAM:

	PRIOR		FY-82		FY-83		FY-84		OUTYEAR		T O T A L	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
							2507	2.1	2100	1.8	4607	3.9
BASIS FOR COST ESTIMATE:												
NONRECURRING							7	.2			7	.2
KITS							2500	1.6	2100	1.6	4600	3.2
DATA								.3		.2		.5
TOTAL							2507	2.1	2100	1.8	4607	3.9

METHOD OF IMPLEMENTATION: INSTALLATION - ORG/INTERMEDIATE
LEAD TIME - 2 MONTHS

193

MODIFICATION OF AIRCRAFT
FY-83 PROGRAM

FY-83 APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: SEEK TALK - AJ CODE MODULE

MODELS OF AIRCRAFT AFFECTED: MULTI

DESCRIPTION/JUSTIFICATION: PROCURES KGV-11 TRANSMISSION SECURITY DEVICES FOR SEEK TALK THROUGH THE NATIONAL SECURITY AGENCY (NSA). THESE DEVICES ARE REQUIRED TO PROVIDE A JAM-RESISTANT WAVEFORM NOT AVAILABLE IN SEEK TALK, TO COUNTER A SPECIFIC THREAT. SEEK TALK IS AFFIXED TO THE AIRCRAFT RADIO (ARC-164, ARC-171). THE KGV-11 IS A SUBSYSTEM OF SEEK TALK.

SCOPE OF PROGRAM:

	PRIOR		FY-82		FY-83		FY-84		OUTYEAR		T O T A L	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
							464	5.7	4353	65.1	4817	70.8
BASIS FOR COST ESTIMATE:												
KITS							464	5.7	4353	65.1	4817	70.8
TOTAL							464	5.7	4353	65.1	4817	70.8

METHOD OF IMPLEMENTATION: INSTALLATION - ORG/INTERMEDIATE
LEAD TIME - 24 MONTHS

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MODIFICATION OF AIRCRAFT
FY-83 PROGRAM

FY-83 APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: UPDATE RWR SIGNAL PROCESSOR, MM-10613B

MODELS OF AIRCRAFT AFFECTED: MULTI

DESCRIPTION/JUSTIFICATION: MODIFICATION WILL REPLACE EXISTING PROGRAMMABLE READ ONLY MEMORY (PROM) DEVICES WITH REUSABLE ELECTRICALLY ERASEABLE READ ONLY MEMORY (EEROM) DEVICES WHICH WILL IMPROVE RELIABILITY, INCREASE THE PROCESSOR SPEED AND PROVIDE THE CAPABILITY TO PROGRAM THE SIGNAL PROCESSOR WHILE INSTALLED ON THE AIRCRAFT. REQUIRED FOR FIRST LINE AIRCRAFT TO HAVE THE CAPABILITY TO IDENTIFY AND LOCATE THE LATEST KNOWN ENEMY THREATS. ACFT AFFECTED: F-16A/B, B-52/G/H, RF-4, A-7D/K, A-10A, F-105G, OV-10A, HH-53B/C/H, AC-130A/H, AND HC-130E.

SCOPE OF PROGRAM:

	PRIOR		FY-82		FY-83		FY-84		OUTYEAR		T O T A L	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
	830	7.6	1650	13.2	2683	22.8					5163	43.6
BASIS FOR COST ESTIMATE:												
NONRECURRING	15	1.4									15	1.4
KITS	815	4.7	1650	12.3	2683	21.6					5148	38.6
DATA		.6										.6
SUPPORT EQUIP.		.7		.9		1.2						2.8
TOOLING		.2										.2
TOTAL	830	7.6	1650	13.2	2683	22.8					5163	43.6

METHOD OF IMPLEMENTATION: INSTALLATION - ORG/INTERMEDIATE
LEAD TIME - 27 MONTHS

195

MODIFICATION OF AIRCRAFT
FY-83 PROGRAM

FY-83 APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: REPLACE AN/APN-175 DOPPLER NAV, MN-11622B

MODELS OF AIRCRAFT AFFECTED: MULTI

DESCRIPTION/JUSTIFICATION: THE PRESENTLY INSTALLED DOPPLER RADAR SET HAS DEGRADED TO THE POINT THAT THE MTBF RANGES FROM 10 HOURS TO 20 HOURS DEPENDENT UPON AIRCRAFT APPLICATION. THIS RELIABILITY IS COMPLETELY UNSATISFACTORY IN A HIGH STRESS, FAST REACTION RESCUE SITUATION. MODIFICATION OF THE EXISTING RADAR SET IS NOT CONSIDERED ECONOMICALLY FEASIBLE OR LOGISTICALLY SUPPORTABLE BECAUSE OF SYSTEM AGE AND EXISTING ELECTRO-MECHANICAL COMPONENTS WHICH ARE CUMBERSOME TO PROGRAM AND OPERATE. A RELIABLE REPLACEMENT DOPPLER WITH HIGH MTBF (1200 HRS) IS AVAILABLE AND REQUIRED TO ACCOMPLISH THE RESCUE MISSION AND REDUCE SUPPORT COSTS.

SCOPE OF PROGRAM:

	PRIOR		FY-82		FY-83		FY-84		OUTYEAR		T O T A L	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
							39	7.5	36	4.7	75	12.2
BASIS FOR COST ESTIMATE:												
NONRECURRING							4	.7			4	.7
KITS							35	4.6	36	4.7	71	9.3
DATA								1.5				1.5
SUPPORT EQUIP.								.4				.4
SIMULATOR MODS								.3				.3
TOTAL							39	7.5	36	4.7	75	12.2

METHOD OF IMPLEMENTATION: INSTALLATION - DEPOT
LEAD TIME - 10 MONTHS

196

MODIFICATION OF AIRCRAFT
FY-83 PROGRAM

FY-83 APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: HF SINGLE SIDE BAND RADIO, MM-16620C

MODELS OF AIRCRAFT AFFECTED: MULTI

DESCRIPTION/JUSTIFICATION: THIS MOD INSTALLS THE AN/ARC-190(V) HF SSB RADIO. CURRENT RADIOS DO NOT MEET THE 1980 REQUIREMENTS FOR CHANNEL SPACING, FREQUENCY ACCURACY AND STABILITY AND PARKHILL COMPATIBILITY. THE ARC-123 AND AT-440 HAVE HIGH LOGISTICS SUPPORT COSTS DO TO UNRELIABLE TUBE TYPE EQUIPMENTS. LOW MEAN TIME BETWEEN DEMAND AND OBSOLETE DESIGN ON MANY SUB-ASSEMBLIES. THIS IS THE SECOND STEP IN THE HF MODERNIZATION PROGRAM. STANDARDIZATION OF HF RADIOS WILL PROVIDE SUBSTANTIAL LOGISTICS COST REDUCTIONS.

SCOPE OF PROGRAM:

	PRIOR		FY-82		FY-83		FY-84		OUTYEAR		T O T A L	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
	178	13.9	690	17.9	860	19.7	860	14.2	2645	61.0	5233	126.7
BASIS FOR COST ESTIMATE:												
NONRECURRING	13	5.5									13	5.5
KITS	165	3.1	690	14.4	860	19.0	860	14.2	2645	56.0	5220	106.7
DATA		4.2		.6						1.9		6.7
TRAINER		.4		1.6		.3				2.0		4.3
SUPPORT EQUIP.		.7		1.3		.4				1.1		3.5
TOTAL	178	13.9	690	17.9	860	19.7	860	14.2	2645	61.0	5233	126.7

METHOD OF IMPLEMENTATION: INSTALLATION - ORG/FIELD
LEAD TIME - 12 MONTHS

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MODIFICATION OF AIRCRAFT
FY-83 PROGRAM

FY-83 APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: MOD OF EJECTION SEATS, MN-28207A

MODELS OF AIRCRAFT AFFECTED: MULTI

DESCRIPTION/JUSTIFICATION: THE EJECTION SEATS ON 10 TYPES OF AIRCRAFT WILL BE MODIFIED TO ACCEPT A IMPROVED RESTRAINT SYSTEM THAT WILL BE SIMPLE IN DESIGN, CAPABLE OF BEING DISASSEMBLED AND REWORKED AT FIELD LEVEL, HAVE A MEANS OF POSITIVELY DISENGAGING ITSELF DURING BALLISTIC FIRING, BE EASILY CLOSED AND MANUALLY OPENED, BE INCAPABLE OF BEING LOCKED UNLESS THE PARACHUTE ARMING LANYARD KEY IS CONNECTED AND BE CAPABLE OF RETAINING AND RELEASING SHOULDER HARNESS LOOPS.

SCOPE OF PROGRAM:

	PRIOR		FY-82		FY-83		FY-84		OUTYEAR		T O T A L	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
							5912	4.7			5912	4.7
BASIS FOR COST ESTIMATE:												
KITS							5912	4.7			5912	4.7
DATA								*				*
TOTAL							5912	4.7			5912	4.7

METHOD OF IMPLEMENTATION: INSTALLATION - ORG/INTERMEDIATE
LEAD TIME - 6 MONTHS

* LESS THAN $ 50,000

(178)

MODIFICATION OF AIRCRAFT
FY-83 PROGRAM

FY-83 APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: MOD OF EJECTION SEATS, MN-28207A

MODELS OF AIRCRAFT AFFECTED: MULTI

DESCRIPTION/JUSTIFICATION: THE EJECTION SEATS ON 10 TYPES OF AIRCRAFT WILL BE MODIFIED TO ACCEPT AN IMPROVED RESTRAINT SYSTEM THAT WILL BE SIMPLE IN DESIGN, CAPABLE OF BEING DISASSEMBLED AND REWORKED AT FIELD LEVEL, HAVE A MEANS OF POSITIVELY DISENGAGING ITSELF DURING BALLISTIC FIRING, BE EASILY CLOSED AND MANUALLY OPENED, BE INCAPABLE OF BEING LOCKED UNLESS THE PARACHUTE ARMING LANYARD KEY IS CONNECTED AND BE CAPABLE OF RETAINING AND RELEASING SHOULDER HARNESS LOOPS.

SCOPE OF PROGRAM:

	PRIOR		FY-82		FY-83		FY-84		OUTYEAR		T O T A L	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
							5912	4.7			5912	4.7

BASIS FOR COST ESTIMATE:

KITS							5912	4.7			5912	4.7
DATA								*				*
TOTAL							5912	4.7			5912	4.7

METHOD OF IMPLEMENTATION: INSTALLATION - ORG/INTERMEDIATE
LEAD TIME - 6 MONTHS

* LESS THAN $ 50,000

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MODIFICATION OF AIRCRAFT
FY-83 PROGRAM

FY-83 APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO. CLASSIFIED PROJECTS

MODELS OF AIRCRAFT AFFECTED: MULTI-AIRCRAFT

DESCRIPTION/JUSTIFICATION: THESE FUNDS ARE REQUIRED TO PROVIDE FOR THE MODIFICATION OF VARIOUS AIRCRAFT AND AIRBORNE SYSTEMS USED IN CLASSIFIED MISSIONS, WHICH BECAUSE OF THEIR SENSITIVE NATURE, REQUIRE THE APPLICATION OF SPECIAL MANAGEMENT AND SECURITY SAFEGUARDS.

SCOPE OF PROGRAM:

	PRIOR		FY-82		FY-83		FY-84		OUTYEAR		T O T A L	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
		170.7		49.9		102.3		152.5		868.5		1343.9
BASIS FOR COST ESTIMATE:												
CLASSIFIED		170.7		49.9		102.3		152.5		868.5		1343.9
TOTAL		170.7		49.9		102.3		152.5		868.5		1343.9

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MODIFICATION OF AIRCRAFT
FY-83 PROGRAM

FY-83 APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: CIVIL RESERVE AIR FLEET (CRAF), MD-3030

MODELS OF AIRCRAFT AFFECTED: WIDE BODIED CIVIL A/C

DESCRIPTION/JUSTIFICATION: ADDS CARGO-CONVERTIBILITY FEATURES TO WIDE-BODY COMMERCIAL PASSENGER AIRCRAFT SO THESE AIRCRAFT WILL BE AVAILABLE TO CONTRIBUTE TO STRATEGIC CARGO MOVEMENT IN THE EVENT OF AN EMERGENCY.

SCOPE OF PROGRAM:

	PRIOR		FY-82		FY-83		FY-84		OUTYEAR		T O T A L	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
	2	17.5					4	164.7	18	686.4	24	868.6
BASIS FOR COST ESTIMATE.												
WIDE-BODIED ACFT	2	17.5					4	164.7	18	686.4	24	868.6
TOTAL	2	17.5					4	164.7	18	686.4	24	868.6

METHOD OF IMPLEMENTATION: INSTALLATION - CONTRACTOR
LEAD TIME - 18 MONTHS

(Dev)

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MISSILE PROCUREMENT, AIR FORCE

For construction, procurement, and modification of missiles, rockets, spacecraft 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 without regard to Section 9774 of Title 10, United States Code, for the foregoing purposes, and such lands and interests therein, may be acquired, and construction prosecuted thereon prior to the approval of title as required by Section 355, Revised Statutes, as amended; reserve plant and government and contractor-owned equipment layaway; and other expenses necessary for the foregoing purposes including rents and transportation of things; $6,827,900 to remain available for obligation until September 30, 1985 (5 U.S.C. 3109; 10 U.S.C. 2271-79, 2353, 2386, 2663, 2672, 2672a, 8012, 9501-02, 9505, 9531-32, 9741-42; 31 U.S.C. 649c, 718; 50 U.S.C. 451, 453, 455; Department of Defense Appropriation Act, 1982, additional legislation to be proposed.)

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Program and Financing (in thousands of dollars)

Identification code 57-3020-0-1-051	Budget plan (amounts for procurement actions programed)			Obligations		
	1981 actual	1982 est.	1983 est.	1981 actual	1982 est.	1983 est.
Program by activities:						
Direct:						
1. Ballistic missiles	140,100	110,762	1,446,400	132,411	68,737	761,007
2. Other missiles	1,061,218	1,734,617	2,139,200	776,828	1,442,186	1,848,778
3. Modification of inservice missiles	112,800	80,652	160 000	69,125	100,087	100,822
4. Spares and repair parts	157,700	209,788	274,000	122,888	163,397	268,713
5. Other support	1,661,468	2,438,161	2,808,300	1,651,084	2,169,483	2,816,956
Total direct	3,333,286	4,573,950	6,827,900	2,752,236	3,941,890	5,796,278
Reimburseable program	84,736	163,000	180,000	87,075	151,654	176,001
10.0001 Total	3,418,022	4,736,950	7,007,900	2,839,311	4,093,544	5,972,279
Financing:						
Offsetting collections from:						
11.0001 Federal funds	-81,860	-144,000	-160,000	-81,401	-144,000	-160,000
13.0001 Trust funds	-2,864	-1,000	.....	-2,811	-1,000	.....
14.0001 Non-federal sources	-12	-18,000	-20,000	-9	-18,000	-20,000
17.0001 Recoveries of prior year obligations(-)	.....	.....	.....	-5,838	.....	.....
Unobligated balance available, start of year:						
21.4001 For completion of prior year budget plans	.....	.....	.....	-694,981	-1,264,254	-1,907,660
21.4002 Reprograming from or to prior year budget plan	-14,760	.....	.....	.....	.....	.....
24.4001 Unobligated balance available, end of year	.....	.....	.....	1,264,254	1,907,660	2,943,281
25.0001 Unobligated balance lapsing	14,760	.....	.....	14,760	.....	.....
39 0001 Budget authority	3,333,286	4,573,950	6,827,900	3,333,286	4,573,950	6,827,900
Budget authority:						
40.0001 Appropriation	3,346,786	4,559,550	6,827,900	3,346,786	4,559,550	6,827,900
41.0001 Transferred to other accounts(-)	-13,500	.....	.....	-13,500	.....	.....
43.0001 Appropriation (adjusted)	3,333,286	4,559,550	6,827,900	3,333,286	4,559,550	6,827,900
60.0001 Reappropriation	.....	14,400	.....	.....	14,400	.....
Relation of obligations to outlays:						
71.0001 Obligations incurred, net				2,755,090	3,930,544	5,792,279
72 4001 Obligated balance, start of year				1,809,031	2,238,448	3,234,692
74.4001 Obligated balance, end of year				-2,238,448	-3,234,692	-4,849,371
77.0001 Adjustments in expired accounts				46,631	.....	.....
78.0001 Adjustments in unexpired accounts				-5,838	.....	.....
90.0001 Outlays				2,366,466	2,934,300	4,177,600

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Object Classification (in thousands of dollars)

Identification code 57-3020-0-1-051		1981 actual	1982 est.	1983 est.
	Direct obligations:			
131.001	Equipment	2,752,236	3,941,690	5,796,278
199.001	Total direct obligations	2,752,236	3,941,690	5,796,278
	Reimbursable obligations:			
231.001	Equipment	87,075	151,654	176,001
999.901	Total obligations	2,839,311	4,093,544	5,972,279

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Program and Financing (in thousands of dollars) | 1979 Fiscal year program

Identification code 57-3020-0-1-051	Budget plan (amounts for procurement actions programed)			Obligations		
	1981 actual	1982 est.	1983 est.	1981 actual	1982 est.	1983 est.
Program by activities:						
Direct:						
1. Ballistic missiles	.....	.....	.....	1,607	.....	.....
2. Other missiles	.....	.....	.....	27,616	.....	.....
3. Modification of inservice missiles	.....	.....	.....	899	.....	.....
4. Spares and repair parts	.....	.....	.....	1,279	.....	.....
6. Other support	.....	.....	.....	47,117	.....	.....
10.0001 Total	.....	.....	.....	78,518	.....	.....
Financing:						
Offsetting collections from:						
11.0001 Adjustment to prior year federal fund orde	.....	.....	.....	307	.....	.....
13.0001 Adjustment to prior year trust fund orders	.....	.....	.....	357	.....	.....
17.0001 Recoveries of prior year obligations(-)	.....	.....	.....	-462	.....	.....
Unobligated balance available, start of year:						
21.4001 For completion of prior year budget plans	.....	.....	.....	-83,480	.....	.....
21.4002 Reprograming from or to prior year budget plan	-14,780	.....	.....	.....	.....	.....
25.0001 Unobligated balance lapsing	14,780	.....	.....	14,780	.....	.....
40.0001 Budget authority (appropriation)	.....	.....	.....	.....	.....	.....

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Program and Financing (in thousands of dollars) | 1980 Fiscal year program

Identification code 57-3020-0-1-051	Budget plan (amounts for procurement actions programed)			Obligations		
	1981 actual	1982 est.	1983 est.	1981 actual	1982 est.	1983 est.
Program by activities:						
Direct:						
1. Ballistic missiles				5,619	3,229	
2. Other missiles				147,924	85,715	
3. Modification of inservice missiles				17,209	5,358	
4. Spares and repair parts				21,815	6,162	
5. Other support				201,480	90,620	
Total direct				393,947	191,084	
Reimbursable program				21,533	461	
10.0001 Total				415,480	191,545	
Financing:						
Offsetting collections from:						
11.0001 Adjustment to prior year federal fund orde				152		
13.0001 Adjustment to prior year trust fund orders				-304		
14.0001 Adjustment to non-federal sources				3		
17.0001 Recoveries of prior year obligations(-)				-5,376		
21.4001 Unobligated balance available, start of year				-601,501	-191,545	
24.4001 Unobligated balance available, end of year				191,545		
40.0001 Budget authority (appropriation)						

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Program and Financing (in thousands of dollars) — 1981 Fiscal year program

Identification code 57-3020-0-1-051	Budget plan (amounts for procurement actions programed)			Obligations		
	1981 actual	1982 est.	1983 est.	1981 actual	1982 est.	1983 est.
Program by activities:						
Direct:						
1. Ballistic missiles	140,100	.....	.....	125,285	10,371	4,444
2. Other missiles	1,061,218	.....	.....	801,388	321,881	137,949
3. Modification of inservice missiles	112,800	.....	.....	51,017	49,998	11,785
4. Spares and repair parts	157,700	.....	.....	99,594	40,674	17,432
5. Other support	1,861,478	.....	.....	1,402,487	378,901	80,080
Total direct	3,333,286	.....	.....	2,279,771	801,825	251,690
Reimbursable program	84,736	.....	.....	65,542	18,193	1,001
10.0001 Total	3,418,022	.....	.....	2,345,313	820,018	252,691
Financing:						
Offsetting collections from:						
11.0001 Federal funds	-81,860	.....	.....	-81,860	.....	.....
13.0001 Trust funds	-2,864	.....	.....	-2,864	.....	.....
14.0001 Non-federal sources	-12	.....	.....	-12	.....	.....
21.4001 Unobligated balance available, start of year	.....	.....	.....	.....	-1,072,709	-252,691
24.4001 Unobligated balance available, end of year	.....	.....	.....	1,072,709	252,691	.....
39.0001 Budget authority	3,333,286	.....	.....	3,333,286	.....	.....
Budget authority:						
40.0001 Appropriation	3,346,786	.....	.....	3,346,786	.....	.....
41.0001 Transferred to other accounts(-)	-13,500	.....	.....	-13,500	.....	.....
43.0001 Appropriation (adjusted)	3,333,286	.....	.....	3,333,286	.....	.....

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Program and Financing (in thousands of dollars) | 1982 Fiscal year program

Identification code 57-3020-0-1-051	Budget plan (amounts for procurement actions programed)			Obligations		
	1981 actual	1982 est.	1983 est.	1981 actual	1982 est.	1983 est.
Program by activities:						
Direct:						
1. Ballistic missiles	.....	110,762	.....	.....	53,137	24,797
2. Other missiles	.....	1,734,617	.....	.....	1,034,590	482,808
3. Modification of inservice missiles	.....	80,682	.....	.....	44,731	20,875
4. Spares and repair parts	.....	209,768	.....	.....	116,561	54,395
5. Other support	.....	2,438,151	.....	.....	1,699,962	619,545
Total direct	.....	4,573,950	.....	.....	2,948,981	1,202,420
Reimbursable program	.....	163,000	.....	.....	133,000	28,000
10.0001 Total	.....	4,736,950	.....	.....	3,081,981	1,230,420
Financing:						
Offsetting collections from:						
11.0001 Federal funds	.....	-144,000	.....	.....	-144,000	.....
13.0001 Trust funds	.....	-1,000	.....	.....	-1,000	.....
14.0001 Non-federal sources	.....	-18,000	.....	.....	-18,000	.....
21.4001 Unobligated balance available, start of year	.....	.....	.....	.....	.....	-1,654,969
24.4001 Unobligated balance available, end of year	.....	.....	.....	.....	1,654,969	424,549
39.0001 Budget authority	.....	4,573,950	.....	.....	4,573,950	.....
Budget authority:						
40 0001 Appropriation	.....	4,559,550	.....	.....	4,559,550	.....
60 0001 Reappropriation	.....	14,400	.....	.....	14,400	.....

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Program and Financing (in thousands of dollars) | 1983 Fiscal year program

Identification code 57-3020-0-1-051	Budget plan (amounts for procurement actions programed)			Obligations		
	1981 actual	1982 est.	1983 est.	1981 actual	1982 est.	1983 est.
Program by activities:						
Direct:						
1. Ballistic missiles	.....	.....	1,446,400	.....	.....	721,766
2. Other missiles	.....	.....	2,139,200	.....	.....	1,228,021
3. Modification of inservice missiles	.....	.....	160,000	.....	.....	68,162
4. Spares and repair parts	.....	.....	274,000	.....	.....	198,886
6. Other support	.....	.....	2,808,300	.....	.....	2,117,333
Total direct	.....	.....	6,827,900	.....	.....	4,342,168
Reimbursable program	.....	.....	180,000	.....	.....	147,000
10.0001 Total	.....	.....	7,007,900	.....	.....	4,489,168
Financing:						
Offsetting collections from:						
11.0001 Federal funds	.....	.....	-160,000	.....	.....	-160,000
14.0001 Non-federal sources	.....	.....	-20,000	.....	.....	-20,000
24.4001 Unobligated balance available, end of year	.....	.....	.....	.....	.....	2,518,732
40.0001 Budget authority (appropriation)	.....	.....	6,827,900	.....	.....	6,827,900

(In Thousands of Dollars)

Program Requirements - FY 1984 - $9,689,487
Program Requirements - FY 1983 - 6,827,900
Program Requirements - FY 1982 - 4,573,950
Program Requirements - FY 1981 - 3,333,286

PURPOSE AND SCOPE OF APPROPRIATION

This appropriation provides for procurement, installation, and checkout of strategic ballistic missiles and other missiles, modification of in-service missiles, initial and replenishment spares, and repair parts for missile systems. It also provides for operational space systems, boosters, payloads, drones, associated ground support equipment, nonrecurring maintenance of industrial facilities, machine tool modernization, and special programs support.

1. Ballistic Missiles - Provides for initial procurement of nine M-X missiles and associated peculiar support equipment.

2. Other Missiles - Provides for continued procurement of Air and Ground Launch Cruise Missiles, and peculiar support and training equipment. Continues procurement of the AIM-7M SPARROW and the AIM-9M SIDEWINDER air-to-air missiles and the AGM-65D MAVERICK and AGM-88A HARM air-to-ground missiles. Continues procurement of the British built RAPIER ground-to-air system to defend U.S. Air Force bases in the British Isles. Provides for target drones for missile testing and aircrew training and requests authorization in FY 1984 of advanced procurement funding to initiate procurement of the Advanced Medium Range Air-to-Air Missile (AMRAAM).

3. Modification of In-Service Missiles - Provides for modification of missiles to improve reliability and safety, extend service life, and to incorporate operational improvements based on in-service use.

4. Spares and Repair Parts -Provides for procurement of initial and replenishment spares and repair parts, common support equipment, replacement equipment, provisioning documentation, and spares for modification programs.

5. Other Support - Provides for special program activities, modernization of government-owned production facilities, procurement of launch vehicles, spacecraft, and peculiar support equipment for operational space systems.

SUMMARY OF REQUIREMENTS

	(In Thousands of Dollars) FY 1981 Estimate	FY 1982 Estimate	FY 1983 Estimate
Ballistic missiles	$ 140,100	$ 110,762	$ 1,446,400
Other missiles	1,061,218	1,734,617	2,139,200
Modification of in-service missiles	112,800	80,652	160,000
Spares and repair parts	157,700	209,768	274,000
Other support	1,861,468	2,438,151	2,808,300
TOTAL DIRECT PROGRAM	3,333,266	4,573,950	6,827,900
Reimbursable program	84,736	163,000	180,000
TOTAL PROGRAM REQUIREMENTS (CURRENT)	3,418,022	4,736,950	7,007,900
Less: Portion of program to be obligated In subsequent fiscal years	1,072,709	1,654,969	2,518,732
Plus: Obligations incurred against prior year program funds	493,998	1,011,563	1,483,111
TOTAL OBLIGATIONS	$2,839,311	$4,093,544	5,972,279

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SUMMARY OF PROGRAM REQUIREMENTS

	(In Thousands of Dollars) FY 1984 Estimate
Ballistic missiles	$3,072,900
Other missiles	2,614,185
Modification of in-service missiles	284,664
Spares and repair parts	399,305
Other Support	3,318,433
TOTAL DIRECT PROGRAM	$9,689,487

ACTIVITY: 1. Ballistic Missiles

(In Thousands of Dollars)

Program Requirement - FY 1984 -	$3,072,903
Program Requirement - FY 1983 -	1,386,400
Program Requirement - FY 1982 -	100,762
Program Requirement - FY 1981 -	140,100

PART 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. The 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.

PART II - JUSTIFICATION OF FUNDS REQUESTED

The FY 1983 budget estimate includes requests for funds for procurement of nine M-X missiles and associated support equipment. The FY 1984 request for authorization includes funds for 53 M-X missiles and completion of the ICBM C3 Program. Description and justification for the requests follow:

M-X - The M-X is an advanced, multiple independently targetable reentry vehicle ICBM. Present plans are for initial deployment of 40 missiles in existing Minuteman silos, with follow-on deployment in a survivable basing mode for the long term. Funds are requested in 1983 for initial procurement of nine M-X missiles and associated support equipment. The FY 1984 request is for 53 missiles and associated support equipment. (RDT&E PE 64312F, 11215F)

ICBM C-3 - There are no FY 1983 funds requested for ICBM C3 integration. The FY 1984 request for ICBM C3 intergration completes procurement of Minuteman launch control center accommodations for installation of the Strategic Air Command Digital Network (SACDIN). The FY 1984 request completes the ICBM C3 integration program. (RDT&E PE 11213)

The following tabulation shows the composition of ballistic missile program requirements:

	FY 1981	FY 1982	FY 1983	FY 1984
Weapon System Cost	$ 89,416	$ 60,070	$ 1,446,400	$ 3,041,200
Less: Advance Procurement (PY)	-4,800	-3,644		
Current Year Program	84,616	56,426		
Plus: Advance Procurement (CY)	3,644			
WEAPON SYSTEM TOTAL	88,260	56,426	1,446,400	3,041,200
ICBM C3 Integration	51,840	54,336		31,700
TOTAL BUDGET ACTIVITY	$140,100	$110,762	$1,446,400	$3,072,900

ACTIVITY: 2. Other Missiles

(In Thousands of Dollars)
Program Requirements - FY 1984 - $2,614,185
Program Requirements - FY 1983 - 2,139,200
Program Requirements - FY 1982 - 1,734,617
Program Requirements - FY 1981 - 1 061,218

PART I - 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 and target drones. 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.

PART II- JUSTIFICATION OF FUNDS REQUESTED

The FY 1983 budget estimate includes funds for the procurement of the Air Launched Cruise Missile (ALCM), the Ground Launched Cruise Missile (GLCM), the SPARROW and SIDEWINDER air-to-air tactical missiles, MAVERICK and HARM air-to-ground missiles, RAPIER air base defense missiles and target drones. Descriptions and justification for the requests follow:

AGM-86B, ALCM - The ALCM is a small, long range, accurate, nuclear armed, air-to-ground cruise missile planned for use on the bomber force. The missile is internally guided by an inertial navigation system which is updated by terrain contour matching. The ALCM will expand the lethal footprint of penetrating strategic bomber forces by providing additional target coverage and routing flexibility and by stressing enemy defenses. FY 1983 funds will procure 440 missiles, related support equipment, and advance procurement requirements for the FY 1984 production program. The FY 1984 request is for 440 missiles in ALCM-C configuration. (RDT&E PE 64361F, 11122F)

BGM-109, GLCM -The GLCM is a small, long range, accurate, nuclear armed, ground-to-ground cruise missile which will provide increased firepower for theater forces. The ground launched cruise missile combines with command, control, communication, and launch control hardware/software to comprise the weapon system. FY 1983 funds will cover procurement of 120 missiles, 27 transporter erector launches (TELS) and 15 launch control centers (LCCs) and other support equipment. The FY 1984 request is also for 120 missiles and associated support equipment. (RDT&E PE 64362F, 27314F)

AIM-7M SPARROW - The Sparrow is a rocket propelled air-to-air missile guided by a solid state radar homing device with dual mode continuous wave or pulse doppler. The AIM-7M was developed to provide for defense against enemy aircraft and to maintain air superiority. The funds requested for FY 1983 will procure 1300 missiles. The request for FY 1984 is for 2075 missiles. (RDT&E PE 27161F)

AIM-9M SIDEWINDER - The SIDEWINDER is designed for close-in "dogfight" combat against highly maneuverable fighter aircraft. Designed for visual attack, the SIDEWINDER has an infrared seeker with solid state electronics, an active optical fuze, and an annular blast fragmentation warhead, all combining to result in increased lethality. The funds requested for FY 1983 will procure 1920 missiles. The FY 84 request is for 1700 missiles (RDT&E PE 27161F)

AGM-65D MAVERICK - The MAVERICK is an air-to-ground missile deigned to destroy small hard targets during day or night or adverse weather. The AGM-65D version of the missile incorporates Imaging Infrared (IR), using thermal detection technology to provide an effective 24 hour day/night/adverse weather weapon. The FY 1983 request will procure 2560 missiles. The FY 1984 request is for 4600 missiles. (RDT&E PE 64608F, 27313F)

AGM-88A HARM - The HARM is an air-to-surface anti-radiation missile designed to damage or supress radar-directed air defense systems. Advanced features include moderate size and weight, high speed, high accuracy, high sensitivity, wide-band frequency coverage in a single seeker, long stand off range and the ability to change to different target frequencies while the missile is in flight. The FY 1983 request will procure 206 missiles. The request for FY 1984 is for 368 missiles. (RDT&E PE 27162F)

RAPIER - A short range, low level, all weather, surface to air defense missile system. It is produced in the United Kingdom (UK) and will be used to defend air bases in the UK. The FY 1983 and FY 1984 request will continue the procurement started in started in FY 1981. (No RDT&E)

AMRAAM - The advanced medium range air-to-air missile (AMRAAM) is an AIM-7 Sparrow follow-on air superiority missile, with significant improvements in operational utility and combat effectiveness. Key features which will improve operational utility include: high average missile velocity, more range than the Sparrow, increased manueverability, multiple target attack, and launch and leave capabilities. The AMRAAM is designed to be compatible with the F-14, F-15, F-16, F-18 and appropriate NATO aircraft. The FY 1984 request contains funds for advance procurement of long lead components. (RDT&E PE 64314F, 27163F)

Target Drones - Target Drones are remotely piloted vehicles which are used to simulate subsonic and supersonic enemy aircraft. They are used to develop air-to-air missile tactics, train aircrews, and to test and evaluate aircraft and missile weapon systems. The funds requested in FY 1983 and FY 1984 will provide for the continued procurement of full scale and sub-scale maneuvering target drones. (RDT&E, PE 64211F, 35116F)

The following table summarizes Other Missiles requirements:

(In Thousands of Dollars)

Weapon System	FY 1981	FY 1982	FY 1983	FY 1984
Air Launched Cruise Missile (ALCM)	$ 542,300	$ 587,559	$ 664,500	$ 841,800
Ground Launched Cruise Missile (GLCM)	148,400	327,942	519,960	465,000
AIM-7F/M Sparrow	177,000	210,640	198,600	300,700
AIM-9L/M Sidewinder	101,700	131,967	114,700	161,100
AGM-65D Maverick (IR)		231,240	342,600	465,500
AGM-88A Harm		89,000	159,800	241,400
Rapier	90,000	139,086	98,900	92,000
AMRAAM				62,281
Target Drones	1,818	17,182	40,200	44,404
TOTAL	$1,061,218	$1,734,617	$2,139,200	$2,614,185

ACTIVITY: 3. Modification of In-service Missiles

	(In Thousands of Dollars)
Program Requirements - FY 1984 -	$ 284,664
Program Requirements - FY 1983 -	160,000
Program Requirements - FY 1982 -	89,652
Program Requirements - FY 1981 -	112,800

PART 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.

PART II - JUSTIFICATION OF FUNDS REQUESTED

The FY 1983 modification program consists of missile systems Class IV and V modifications which are necessary for safety improvements, extension of service life, or to incorporate operational improvements after a missile has been placed in the inventory. Several update modifications are programmed to convert missiles to the production line configuration. Advances in technology and longer service life necessitate the modification of in-service missile systems to enable the strategic, tactical, and support forces to maintain superiority over hostile forces.

Class IV Modification (FY 1983, $62,419; FY 1984, $99,067) The FY 1983 program will provide for modifications to improve reliability, maintainability, and extend service life of the AIM-9 Sidewinder, LGM-30 MINUTEMAN, and the Emergency Rocket Communications System. The FY 1984 program will continue modifications on these systems, and initiate modifications on the Air Launched Cruise Missile (ALCM) as it enters the operational inventory.

Class V Modifications

LGM-30 F/G Minuteman II/III (FY 1983, $35,500; FY 1984, $24,000). This program provides for the procurement of lithium batteries for installation into 200 Minuteman III silos to extend the amount of time that emergency survivable power is available to launch Minuteman missiles.

Air Launch Cruise Missile (FY 1983, $50,800; FY 1984 $139,000) This program provides for the procurement of kits for retrofitting ALCMs with HAVE RUST (electronic countermeasures).

Update

AIM-7F Sparrow Update - (FY 1983, $7,691; FY 1984, $2,566) This program corrects deficiencies identified in AIM-7F initial operation test and evaluation.

GLCM Update - (FY 1983, $3,590; FY 1984, $20,031) This program will correct deficiencies on missiles revealed during initial operation test and evaluation.

The following table summarizes modification requirements:

REQUIREMENT	FY 1981	FY 1982	FY 1983	FY 1984
	(In Thousands of Dollars)			
Class IV Modifications	$ 93,500	$ 33,916	$ 62,419	$ 99,067
Class V Modifications:				
LGM-30 F/G MINUTEMAN II/III	2,000	33,100	35,500	24,000
AGM-86B Air Launch Cruise Missile			50,800	139,000
Update:				
AIM-7F Sparrow	17,300	13,636	7,691	2,565
BGM-109 GLCM			3,590	20,031
TOTAL	$ 112,800	$ 80,652	$ 160,000	$ 284,664

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ACTIVITY: 4. Spares and Repair Parts

(In Thousands of Dollars)

Program Requirements - FY 1984 -	$ 399,305
Program Requirements - FY 1983 -	274,000
Program Requirements - FY 1982 -	209,768
Program Requirements - FY 1981 -	157,700

PART I - PURPOSE AND SCOPE

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

PART II - JUSTIFICATION OF FUNDS REQUESTED

The funds for FY 1983 and FY 1984 will provide for the procurement of initial spares, replacement equipment, and replenishment spares. Initial spares are investment type items normally procured in support of the weapon system delivery schedule. Replacement equipment includes peculiar support equipment in support of out-of-production systems, equipment common to several systems, and equipment required by specialized repair activities. Replenishment spares include components and repair parts required for the continued support of missiles, drones and related support equipment maintained in the operational inventory. The FY 1983/84 requirements for spares and repair parts were developed by detailed provisioning actions which consider operational deployment of the end item, usage rate trends and, for time-change items, the service life of the weapon system.

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The breakdown of Spares and Repair Parts requirements follows:

	(In Thousands of Dollars)			
INITIAL SPARES (I/S)	FY 1981	FY 1982	FY 1983	FY 1984
Minuteman	$ 710	$ 519	$	$
MX			50,700	150,800
Air Launched Cruise Missile	27,575	9,545	12,200	16,900
Ground Launched Cruise Missile	15,726	22,554	10,836	9,000
Sparrow	8,238	11,585	9,700	4,600
Sidewinder	4,231	6,037	1,000	1,000
Maverick		3,961	10,500	3,200
HARM		4,000	9,300	7,900
Rapier		9,000		
Target Drones	202	1,021	4,357	1,700
TOTAL	56,632	68,222	108,593	195,100
Modification I/S	2,633	4,683	9,110	3,499
Replacement Equipment	33,485	46,108	51,604	67,796
Replenishment Spares	64,900	90,755	104,693	132,908
TOTAL SPARES & REPAIR PART	$ 157,700	$ 209,768	$ 274,000	$ 399,305

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ACTIVITY: 5. Other Support

(In Thousands of Dollars)

Program Requirements - FY 1984 -	$ 3,318,433
Program Requirements - FY 1983 -	2,808,300
Program Requirements - FY 1982 -	2,438,151
Program Requirements - FY 1981 -	1,861,468

PART I - PURPOSE AND SCOPE

This activity provides for industrial facilities, space programs, and special programs. Industrial facilities provide for expansion or modification of government-owned production facilities, nonrecurring maintenance and modernization of machine tools and equipment, preparation, crating, and shipping of government tools, improved manufacturing methods, and environmental protection measures instituted at government-owned plants. Space programs provide launch vehicles, space vehicles, peculiar ground support equipment, and miscellaneous launch support requirements other than those chargeable to the Operations and Maintenance appropriation.

PART II - JUSTIFICATION OF FUNDS REQUESTED

The FY 1983 budget request of $2,808,300 includes $1,297,349 for operational space programs, $27,200 for industrial facilities, and $1,483,751 for special programs. The FY 1984 request for authorization of $3,318,433 includes $1,154,550 for operational space programs, $26,600 for industrial facilities and $2,137,283 for special programs.

COMSEC - This program supports the national objective of providing communications security on all critical spaceborne communications systems. Tasks under this program apply technology to develop COMSEC products for use in Air Force weapon systems, and supports the Air Force Security Secure Tempest Testing and Analysis program. This program is an integral part of the national COMSEC program, which is administered by the National Security Agency. The FY 1983 and FY 1984 funds provide for the procurement of peculiar communications equipment for the program. (RDT&E PE 33401F)

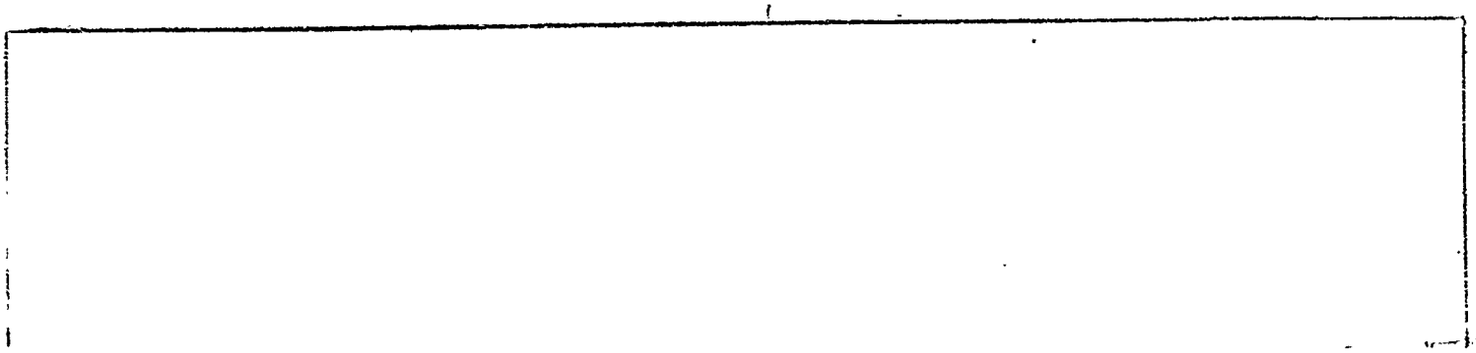
NAVSTAR Global Positioning System (GPS) - The operational NAVSTAR GPS will consist of 18 satellites, a ground control station and approximately 20,000 sets of user equipment for all services. Each user will be able to precisely determine his position (to better than 16 meters average accuracy) and velocity (to a few centimeters per second), in three dimensions, anywhere in the world, unimpaired by weather. The FY 1983 funds provide for the first year of a 28 satellite block buy, incrementally funded, procurement. FY 1984 funds continue the procurement. (RDT&E PE 64778F, 35165F)

Space Launch Support - The Space Launch Support program provides the Inertial Upper Stages (IUS), Payload Assist Modules-Delta class (PAM-D), and spares support for all Air Force operational space programs (excluding Support Missions) launching on the Space Shuttle. Operational programs include the Defense Support Program, the Defense Satellite Communications System, and the NAVSTAR Global Positioning System. The funds requested in Fiscal Year 1983 will be used to procure 10 PAM-D upper stages and PAM-D Airborne Support Equipment, to advance buy long lead equipment for four IUSs, and to procure IUS shipping, spares, and software support items. It also procures necessary spares for Interface Verification Equipment, Airborne Support Equipment, and the Vandenberg Air Force Base Shuttle launch processing system. In Fiscal Year 1984 funds will be requested to fully fund the four IUSs and to procure eight PAM-D stages to support operational launch requirements; to provide necessary spares for Interface Verification Equipment, Airborne Support Equipment, and the Vandenberg AFB Shuttle launch processing system; and to procure IUS support items including spares and software and solid motors for an accelerated aging test. (RDT&E PE 64411F, 35171F)

Satellite Data System (SDS) - The SDS is a multi-purpose communications system which in conjunction with the Navy Fleet Satellite Communications Program (FLTSATCOM) has the high priority mission of supporting communications for the strategic forces. SDS also supports communications between Air Force Satellite Control Facility ground stations. The FY 1983 funds will provide a continuing replenishment launch capability and satellite configuration testing. The FY 1984 request for authorization is for sustaining the capability for launch replenishment and satellite configuration testing. (RDT&E PE 35158F)

Defense Meteorological Satellite Program (DMSP) - DMSP is a joint service program which is DOD's most important single source of weather data. It is an advanced weather satellite system which supports both strategic and tactical missions. Two DMSP satellites provide worldwide, high quality visual and infrared cloud imagery and other specialized meteorological data four times a day. Worldwide data are provided to the Air Force Global Weather Central at Offutt AFB, Nebraska, and to the Navy's Fleet Numerical Weather Central at Monterey, California. Local area cloud imagery data are transmitted for immediate use directly from the satellites to mobile Air Force and Navy tactical receiving terminals at key worldwide operating locations and onboard aircraft carriers at sea. In Fiscal Year 1983, the funding requested will begin a buy of four satellite/primary sensor units in a multi-year approach. Two units are fully-funded in Fiscal Year 1983, and the advance buy funding for two more units is also included in Fiscal Year 1983. The FY 1983 funding also includes modification of an Atlas-E booster, integration of mission sensors on the spacecraft, and Aerospace Corporation engineering and program management support. Fiscal Year 1984 funding will be requested to support modification of an Atlas-E booster, integration of mission sensors on a spacecraft, and Aerospace Corporation engineering and program management support. (RDT&E PE 35160F)

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Defense Support Program (DSP) - The DSP satellites contain sensors which provide near real-time data to the National Command Authorities and other designated users. The FY 1983 funds will procure two satellites for which the long lead items were procured in FY 1982. (RDTE PE 12431F)

Defense Satellite Communications System (DSCS) - The 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 four operational and two in-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 anti-jam capability. DSCS III satellites will include an Air Force Satellite Communications System single channel transponder for Emergency Action Message dissemination. Ground terminals to meet Air Force communications requirements are procured through the U.S. Army. The FY 82 funds provided for the acquisition of two DSCS III production satellites and associated launch vehicle support. The FY 1983 funds provide for the acquisition of two additional DSCS III production satellites and launch vehicle support. Funds for AFSATCOM Single Channel Transponders for these satellites are also included. In FY 84, launch vehicle first time integration, traveling wave tube amplifier improvements, and shuttle compatibility modifications will continue. (RDT&E PE 32110F)

Air Force Satellite Communications System (AFSATCOM) - The AFSATCOM system is a satellite based Ultra High Frequency Communications system. The AFSATCOM transponders are carried as payloads on host spacecraft. The AFSATCOM system provides communications between the National Command Authorities, the JCS, the military CINC's and the nuclear capable forces. The FY 83 request procures one transponder for a classified host spacecraft. (RDT&E PE 33601F)

Space Boosters - The Space Boosters program provides an austere expendable launch vehicle backup to guarantee the launch of critical USAF operational payloads in the event that the Space Shuttle program is delayed or the orbiter fleet is grounded. It also provides for the maintenance of critical Titan III production capability until the operational capability of the Space Shuttle is assured. The funds requested in FY Year 1983 will provide funds for advance buy of materials needed to produce two additional Titan III(34)D backup boosters and for the procurement of propellants for backup boosters. Procurement of the advance buy materials for the two additional Tital III(34)D backup boosters will allow maintenance of critical Titan III production capability to be extended beyond September 1983, its current end date, if required to assure our future ability to launch critical DOD satellites. Fiscal Year 1984 funds will be requested to produce the two Titan III(34)D backup vehicles, using the advance buy materials procured in Fiscal Year 1983, dependent upon a decision to extend the maintenance of critical Titan III production capability beyond September 1983. Funds will also be requested in Fiscal Year 1984 to support phaseout of production of certain Titan III configurations after the last vehicle of each of those configurations is launched. (RDT&E PE 35119F)



Space Defense (Anti-satellite) System - The Space Defense System is the U.S. anti-satellite system. It will utilize a Miniature Vehicle (MV) final stage to kill target satellites, a two stage air-launched SRAC/Altair missile to boost the MV to target altitudes, and a modified air defense F-15 to launch the missile. The system will be deployed at two CONUS air defense bases. In FY 1984, funds are programmed for procurement of the first operational SRAM/Altair/MV. (RDTE PE 64406F, 12450F)

Space Shuttle - The Space Shuttle is a NASA development program to provide an advanced, reusable, manned orbiter vehicle which will be capable of transporting payloads to low earth orbit. To carry payloads to higher operational orbits, the Air Force will build an unmanned Inertial Upper Stage (IUS). By Executive direction, the Air Force will: 1) provide a shuttle launch and landing capability at Vandenberg AFB, CA; 2) develop the Inertial Upper Stage; 3) transition DOD payloads to the shuttle; 4) support NASA development efforts and make sure the shuttle meets DOD requirements. The IUS, procured for DOD launches under the Space Launch Support line item, will be used by both DOD and NASA. The funds requested for FY 1983 and FY 1984 provide for the procurement of common and unique support equipment for: (1) the Vandenberg AFB Shuttle launch site, (2) the integration and on-orbit support of DOD payloads flown in the Shuttle, and (3) for the modification of various NASA facilities to allow classified operations. (RDT&E PE 64411F)

A summary of the funding requirements for space programs is as follows:

	FY 1981	FY 1982	FY 1983	FY 1984
COMSEC	$ 15,700	$ 19,461	$ 13,077	$ 25,800
NAVSTAR GPS			102,000	149,300
Space Launch Support	700	102,975	155,800	172,400
Satellite Data System	95,300	41,770	22,518	10,200
Defense Meteorological Satellite Program	42,800	36,616	167,900	34,800
Defense Support Program	52,000	241,354	407,500	366,300
Defense Satellite Communications System	80,500	129,614	192,900	89,900
Air Force Satellite Communications System	5,000		28,500	31,500
Space Boosters	121,200	68, 17	71,100	167,200
Space Defense Operations				32,800
Space Shuttle	117,000	200,655	135,954	74,350
TOTAL SPACE PROGRAMS	$ 530,200	$ 840,672	$ 1,297,349	$ 1,154,550

[redacted]

Industrial Facilities (FY 83, $27,200; FY 84, $26,500). This is a continuing program with government owned properties which includes requirements for plant expansions; packing and crating, and handling of plant equipment; rehabilitation; environmental protection; manufacturing methods; and energy conservation.

Special Programs (FY 83, $1,483,751; FY 84, $2,137,283). Special Program requirements are of a sensitive nature requiring special access.

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COMPARISON OF FY 1982 PROGRAM REQUIREMENTS AS REFLECTED IN FY 1982 BUDGET WITH FY 1982 PROGRAM REQUIREMENTS AS SHOWN IN FY 1983 BUDGET

SUMMARY OF PROGRAM REQUIREMENTS

(In Thousands of Dollars)

	Program Requirements Per 1982 Budget	Program Requirements Per 1983 Budget	Increase (+) or Decrease (-)
Ballistic Missiles	$ 88,562	$ 110,762	$ +22,200
Other Missiles	1,724,317	1,734,617	+10,300
Modification of In-Service Missiles	74,552	80,652	+6,100
Spares and Repair Parts	194,268	209,768	+15,500
Other Support	2,122,947	2,438,151	+315,204
Reimbursables	92,000	163,000	+71,000
Total Fiscal Year Program	$ 4,296,646	$ 4,736,950	$ +440,304

1. Ballistic Missiles ($+22,200) Funds were added by the Congress for continued production of MK-12A reentry vehicles ($+22,300). A reduction was also made as part of an overall general reduction by Congress to the appropriation to finance Army and Guard equipment transfers ($-100).

2. Other Missiles ($+10,300) Funds were added by the Congress to the Rapier ($+29,200) deleted from the AIM-7F Sparrow ($-15,500), and a reduction was made as part of an overall general reduction by Congress to the appropriation to finance Army and Guard equipment transfers ($-3,500).

3. Modification of In-Service Missiles ($+6,100) Funds were added by the Congress for MINUTEMAN Extended Survivable Power (MESP) ($+33,100). Class IV Mods were reduced by the Congress for Titan non-safety related modifications ($-4,400) and to make use of prior year unobligated balances ($-22,500). A reduction was also made as part of an overall general reduction to the appropriation by the Congress to finance Army and Guard equipment transfers ($-100).

4. Spares and Repair Parts ($+15,500) Funds were added by the Congress for spares associated with the Rapier ($+9,000), for initial spares associated with MESP ($+1,900), and for additional deployment of MM III ($+5,000). A reduction was also made as part of an overall general reduction to the appropriation by the Congress to finance Army and Guard equipment transfers ($-400).

5. Other Support ($+315,204) Funds were added by the Congress for Industrial Facilities ($+9,000), for DSP ($+12,000), for Special Update ($+350,000) and Special Programs ($+5,300). Funds for Global Positioning were deleted by the Congress ($-73,569). A reduction was also made as part of an overall general reduction by the Congress to finance Army and Guard equipment transfers ($-1,900).

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COMPARISON OF FY 1982 FINANCING AS REFLECTED IN FY 1982 BUDGET WITH FY 1982 FINANCING AS SHOWN IN FY 1983 BUDGET

(In Thousands of Dollars)

	Financing Per FY 1982 Amended Budget	Financing Per FY 1983 Budget	Increase (+) or Decrease (-)
Program Requirements	4,296,646	4,736,950	+440,304
Program Requirements (Service Account)	4,204,646	4,573,950	+369,304
Program Requirements (Reimbursable)	92,000	163,000	+71,000
Less:			
Anticipated Reimbursements	92,000	163,000	+71,000
Reappropriation		14,400	+14,400
Appropriation	4,204,646	4,559,550	+354,904

EXPLANATION OF CHANGES IN FINANCING

The fiscal year 1982 program has increased $440,304 thousand since submission of the FY1982 budget. Adjustments by category are explained below:

1. Anticipated Reimbursements. The increase is due to a revised estimate of customer orders in FY1982.

2. Reappropriation. The increase is due to a pending reprogramming from FY 1982 RDT&E, AF to FY 1982 Missile Procurement, Air Force, to fully fund Space Launch Support requirements.

COMPARISON OF FY 1981 PROGRAM REQUIREMENTS AS REFLECTED IN FY 1982 BUDGET WITH FY 1981 PROGRAM REQUIREMENTS AS SHOWN IN FY 1983 BUDGET

SUMMARY OF PROGRAM REQUIREMENTS

(In Thousands of Dollars)

	Program Requirements Per 1982 Budget	Program Requirements Per 1983 Budget	Increase (+) or Decrease (-)
Ballistic Missiles	$ 140,116	$ 140,100	$ -16
Other Missiles	1,061.168	1,061,218	+50
Modification of In-Service Missiles	112,772	112,800	+28
Spares and Repair Parts	157,663	157,700	+37
Other Support	1,875,067	1,861,468	-13,599
Reimbursable Program	94,481	84,736	-9,745
Total Fiscal Year Program	$ 3,441,267	$ 3,418,022	$ -23,245

EXPLANATION BY BUDGET ACTIVITY

1. Ballistic Missiles ($-16) Minor decreases.

2. Other Missiles ($+50) Minor changes totalling ($50).

3. Modification of In-Service Missiles ($+28) Minor changes totaling ($28).

4. Spares and Repair Parts ($+37) Minor changes totaling ($37).

5. Other Support ($-13,599) Reflects a reprograming of $13,500 from classified programs to the RDT&E appropriation and minor changes ($-99).

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COMPARISON OF FY 1981 FINANCING AS REFLECTED IN FY 1982 BUDGET WITH FY 1981 FINANCING AS SHOWN IN FY 1983 BUDGET

(In Thousands of Dollars)

	Financing Per FY 1982 Amended Budget	Financing Per FY 1983 Budget	Increase(+) or Decrease(-)
Program Requirements	3,441,267	3,418,022	-23,245
Program Requirements (Service Account)	3,346,786	3,333,286	-13,500
Program Requirement (Reimbursable)	94,481	84,736	-9,745
Less:			
Anticipated Reimbursements	94,481	84,736	-9,745
Add:			
Transferred to other accounts		13,500	+13,500
Appropriation	3,346,786	3,346,786	-

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EXPLANATION OF CHANGES IN FINANCING

The Fiscal Year 1981 program has been decreased $23,245 thousand since submission of the FY 1982 budget. Adjustments by category of financing are explained below:

1. Anticipated Reimbursements. The decrease of $9,745 thousand is due to receipt of actual customer orders in FY 1981.

2. Transferred to Otner Accounts. $13,500 thousand was transferred to RDT&E, AF 1981 in accordance with Section 734, PL 96-527.

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ANALYSIS OF UNOBLIGATED BALANCES - 30 SEPTEMBER 1983
SUMMARY BY CATEGORY
(In Millions of Dollars)

	FY 1982	FY 1983	Total	% of Total Unobligated
1. Military Interdepartmental Purchase Requests: (MIPRs)	$ 31.8	$188.9	$220.7	7.5%
2. Completing Contractual Arrangements:				
a. Specification Definitions	62.4	370.3	432.7	14.7%
b. Price Redeterminations	53.4	317.4	370.8	12.6%
c. Definitization of Contracts	208.1	1234.1	1442.2	49.0%
3. Full Funding Policy:				
a. Delayed/Revised Program Release	32.3	191.4	223.7	7.6%
b. Engineering Changes	36.5	216.6	253.1	8.6%
TOTAL UNOBLIGATED FY 1983	$424.5	$2518.7	$2943.2	

EXPLANATION

Procurement funds are available for obligation for three years because of the extensive lead time required to develop detailed specification, issue Requests for Proposals (RFPs) and to negotiate and finalize contracts for procurement of investment equipment. Unobligated balances are required for programmed and needed items on which contracts have not reached the obligational stage by the end of the fiscal year because of the procurement process.

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The following are illustrative of the reasons which will cause unobligated balances at the end of each fiscal year:

1. Military Interdepartmental Purchase Requests (MIPRs) ($220.7 million) - These documents are used to request one of the other military services to procure Air Force requirements in conjunction with their own or with those of another service. Funds to support these requests remain unobligated until notification of contract award is received from the other military service. Frequently, contractual arrangements will have been completed and the obligation incurred but notification from the other service is not received in time for recording in Air Force records prior to or at the end of a fiscal year.

2. Completing Contractual Arrangements:

a. Specification Definitions ($432.7 million) - Unobligated funds result when specifications for newly introduced items cannot be definitized in time to permit contract negotiation prior to or at the end of the fiscal year.

b. Price Redeterminations ($370.8 million) - Prices are redetermined at intervals throughout the life of a contract. Final obligation for contracts must await negotiations on agreed target-ceiling formulae. In most large contracts, the rewards and penalties of multiple incentives (cost, performance and schedule) cannot be determined and obligated prior to the end of the fiscal year. Funds are reserved for these purposes when upward adjustments seem likely; however, obligation does not occur until a formal redetermination has been agreed upon and the contract amended. Unobligated funds at year end result.

c. Definitization of Contracts ($1442.2 million) - Procurements of complex systems and large material orders may occasionally be initiated under letter contracts. The letter contract generates a partial obligation of the total program value with the balance remaining committed but unobligated pending definitization and negotiation of the detailed contract terms. These actions can carry over the end of a fiscal year and result in unobligated funds.

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3. Full Funding Policy - This policy, enunciated in DoD Directive 7200.4 (October 30, 1969) provides that adequate appropriations and funds must be available in a given fiscal year for obligation, committed or set aside in a reserve account in an aggregate amount sufficient to complete the procurement of a specified number of end items and advance procurement for approved programs. Unobligated balances at the end of a fiscal year are a consequence of this policy and accrue in the following categories:

a. Delayed/Revised Program Release ($223.7 million) - Adjustments in quantities or specifications of other equipment to meet changing situations or to exploit engineering improvements generally require prior approval of reprogramming requests which can delay program release and direction until well into the fiscal year, thus delaying the obligation of funds by the end of the fiscal year. Also, approved and funded programs are sometimes delayed/undirected beyond 30 September pending decision on an aspect of the program that has arisen requiring resolution before proceeding.

b. Engineering Changes ($253.1 million) - Based on prior experience with systems of like nature and complexities, provision is made in procurement programs, as a percentage of the estimated cost of the item, to cover engineering improvements and design changes which will occur as a result of manufacturing experience of Air Force requirements. Engineering changes are not definitive requirements known in advance and they cannot be obligated until the change is authorized and directed. These changes occur throughout the life of the production contract and result in unobligated balances.

MODIFICATION OF MISSILES
FY-83 PROGRAM

FY-83 APPROPRIATION: MISSILE PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: MINUTEMAN EXTENDED SURVIVABLE POWER, MM-2989

MODELS OF MISSILES AFFECTED: LGM-30G (MM III)

DESCRIPTION/JUSTIFICATION: INSTALLS FOUR LITHIUM BATTERIES IN PLACE OF HALF OF THE LEAD ACID BATTERIES IN EACH OF THE 200 MM III WS-133L SILOS. THIS EXTENDS BY A FACTOR 15 THE AMOUNT OF TIME THAT EMERGENCY SURVIVABLE POWER IS AVAILABLE TO LAUNCH THESE MISSILES, THEREBY EXPANDING THE STRATEGIC RESPONSE OPTIONS AVAILABLE.

SCOPE OF PROGRAM:

	PRIOR		FY-82		FY-83		FY-84		OUTYEAR		T O T A L	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
		2.0	30	33.1	105	35.5	80	24.0			215	94.6
BASIS FOR COST ESTIMATE:												
NONRECURRING		2.0	15	23.2		2.5		2.2			15	29.9
KITS			15	8.0	105	31.5	80	20.8			200	60.9
DATA				.4		.6		.2				1.2
TRAINER				.5		.4						.9
SUPPORT EQUIP.				.4		.5		.8				1.7
TOTAL		2.0	30	33.1	105	35.5	80	24.0			215	94.6

METHOD OF IMPLEMENTATION: INSTALLATION - CONTRACTOR/FIELD TEAM
LEAD TIME - 27 MONTHS

MODIFICATION OF MISSILES
FY-83 PROGRAM

FY-83 APPROPRIATION: MISSILE PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: HAVE RUST AIR LAUNCHED CRUISE MISSILE

MODELS OF MISSILES AFFECTED: AGM-86B

DESCRIPTION/JUSTIFICATION: HAVE RUST IS AN ELECTRONIC COUNTERMEASURE PROTECTION DEVICE FOR THE AIR LAUNCHED CRUISE MISSILE (ALCM). HAVE RUST WILL ENHANCE ALCM SURVIVABILITY. RETROFIT OF THE ELECTRONIC DEVICES WILL BEGIN WITH MISSILE NUMBER 400.

SCOPE OF PROGRAM:

	PRIOR		FY-82		FY-83		FY-84		OUTYEAR		T O T A L	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
	---	---	---	---	---	---	---	---	---	---	---	---
					180	50.8	1040	139.0			1220	189.8
BASIS FOR COST ESTIMATE:												
NONRECURRING						2.0		1.0				3.0
KITS					180	26.0	1040	113.5			1220	139.5
DATA						1.5		18.0				19.5
TRAINER						2.3		2.0				4.3
SUPPORT EQUIP.						3.5		4.5				8.0
TOOLING						15.5						15.5
TOTAL					180	50.8	1040	139.0			1220	189.8

METHOD OF IMPLEMENTATION: INSTALLATION - ORG/INTERMEDIATE
LEAD TIME - 18 MONTHS

MODIFICATION OF MISSILES
FY-83 PROGRAM

FY-83 APPROPRIATION. MISSILE PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: ERCS OSCILLATOR, MM-15245B

MODELS OF MISSILES AFFECTED EMERGENCY ROCKET COMMUNICATION SYSTEM (ERCS)

DESCRIPTION/JUSTIFICATION THIS MODIFICATION WILL REDESIGN THE OSCILLATOR TO CONFORM TO THE NEW INTERNATIONAL STANDARDS WHICH CHANGE THE BANDWITH FOR THE SYSTEM FROM 100 KHZ TO 25 KHZ. THE MOD WILL ALSO INCREASE FREQUENCY STABILITY TO ENHANCE TRANSMISSION CLARITY TO SINGLE INTEGRATED OPERATIONAL PLAN (SIOP) FORCES.

SCOPE OF PROGRAM:

	PRIOR		FY-82		FY-83		FY-84		OUTYEAR		T O T A L	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
					6	2.2	20	2.0			28	4.2
BASIS FOR COST ESTIMATE												
NONRECURRING						1.0						1.0
KITS					8	.8	20	2.0			28	2.8
DATA						.4						.4
TOTAL					8	2.2	20	2.0			28	4.2

METHOD OF IMPLEMENTATION. INSTALLATION - DEPOT
LEAD TIME - 6 MONTHS

(2 of 2)

MODIFICATION OF MISSILES
FY-83 PROGRAM

FY-83 APPROPRIATION: MISSILE PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: SECURITY SYSTEM RETROFIT, MM-10505B

MODELS OF MISSILES AFFECTED: LGM-30F/G, WING I SQD 20, WING VI

DESCRIPTION/JUSTIFICATION: REPLACE AND UPDATE THE PRESENT SECURITY SYSTEM AT WINGS I AND VI WITH THE UPDATED SECURITY SYSTEM USED AT WINGS II THROUGH V. THE FALSE ALARM RATES WITH THE PRESENT SYSTEM ARE EXCESSIVE RESULTING IN AN UNSUPPORTABLE WORKLOAD AND HIGH COSTS TO STRATEGIC AIR COMMAND. THE FALSE ALARM RATES WILL BE REDUCED IN EXCESS OF 80 PERCENT BY REPLACEMENT WITH THE UPDATED SYSTEM.

SCOPE OF PROGRAM:

	PRIOR		FY-82		FY-83		FY-84		OUTYEAR		T O T A L	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
	10	12.5			3.3		155	14.6	190	16.0	355	46.4
BASIS FOR COST ESTIMATE:												
NONRECURRING	10	9.9			3.3						10	13.2
KITS							155	11.9	190	16.0	345	27.9
DATA		.8										.8
TRAINER		1.8						1.7				3.5
SUPPORT EQUIP.								1.0				1.0
TOTAL	10	12.5			3.3		155	14.6	190	16.0	355	46.4

METHOD OF IMPLEMENTATION: INSTALLATION - DEPOT
LEAD TIME - 12 MONTHS

MODIFICATION OF MISSILES
FY-83 PROGRAM

FY-83 APPROPRIATION: MISSILE PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO. MS-17 UPGRADE, MX-10520L

MODELS OF MISSILES AFFECTED. LGM-30F

DESCRIPTION/JUSTIFICATION: THE PRODUCTION OF REPLACEMENT PARTS FOR THE MS-17 GUIDANCE AND CONTROL SYSTEM WAS DEACTIVATED IN 1975. THE AIR FORCE PURCHASED 10 YEARS OF HARDNESS CRITICAL PARTS TO SUSTAIN THE SYSTEM THROUGH 1985. THE MS-17 HAS BEEN USING THESE HARDNESS CRITICAL PARTS AT AN INCREASING RATE AND SUPPORT OF THE SYSTEM IN THE FY-84-85 TIME FRAME IS QUESTIONABLE. THIS MODIFICATION WILL DECREASE HARDNESS CRITICAL PARTS REQUIREMENTS TO ASSURE CONTINUING SUPPORTABILITY OF THE MINUTEMAN II WEAPON SYSTEM.

SCOPE OF PROGRAM:

	PRIOR		FY-82		FY-83		FY-84		OUTYEAR		T O T A L	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
	---	----	---	----	---	----	---	----	---	----	-----	-----
					1	7.2	21	17.8	580	135.3	602	160.3
BASIS FOR COST ESTIMATE:												
NONRECURRING					1	7.2	1	7.2			2	14.4
KITS							20	4.7	580	135.3	600	140.0
DATA								1.7				1.7
SUPPORT EQUIP.								4.2				4.2
TOTAL					1	7.2	21	17.8	580	135.3	602	160.3

METHOD OF IMPLEMENTATION. INSTALLATION - DEPOT
LEAD TIME - 16 MONTHS

MODIFICATION OF MISSILES
FY-83 PROGRAM

FY-83 APPROPRIATION: MISSILE PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: HARDENED INTERSITE CABLE SYSTEM, MM-11501B

MODELS OF MISSILES AFFECTED: LGM-30

DESCRIPTION/JUSTIFICATION: THE HARDENED INTERSITE CABLE SYSTEM AND ITS ASSOCIATED SUBSYSTEMS HAVE DEGRADED TO A POINT THAT PIECEMEAL CORRECTIVE ACTIONS CANNOT SUSTAIN THE SYSTEM. MODIFICATION WILL INCLUDE REDESIGN OF PRESSURE CIRCUITS, INSTALLATION OF ABOVE GROUND PRESSURE CONTACTS, INSTALLATION OF POLE MOUNTED COMPRESSORS AND A MODIFIED FAULT ALARM SYSTEM.

SCOPE OF PROGRAM:

	PRIOR		FY-82		FY-83		FY-84		OUTYEAR		T O T A L	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
			53	6.2	1708	12.0	1452	6.3	1358	7.8	4571	32.3
BASIS FOR COST ESTIMATE.												
NONRECURRING			53	6.0		3.3					53	9.3
KITS					1708	8.0	1452	6.3	1358	7.8	4518	22.1
DATA				.2		.7						.9
TOTAL			53	6.2	1708	12.0	1452	6.3	1358	7.8	4571	32.3

METHOD OF IMPLEMENTATION: INSTALLATION - DEPOT
LEAD TIME - 15 MONTHS

MODIFICATION OF MISSILES
FY-83 PROGRAM

FY-83 APPROPRIATION: MISSILE PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: BRINE CHILLER UNITS REPLACEMENT, MM-185436

MODELS OF MISSILES AFFECTED: LGM-30

DESCRIPTION/JUSTIFICATION. ENVIRONMENTAL CONTROL SYSTEM BRINE CHILLER UNIT AND INSTRUMENT AIR COMPRESSOR LIFE STUDY REVEALED THE BRINE CHILLER AND INSTRUMENT AIR COMPRESSOR HAVE OPERATED BEYOND THEIR DESIGN AND ARE NOW WORN-OUT. THE PRESENT BRINE CHILLER AND INSTRUMENT AIR COMPRESSOR WILL BE REPLACED WITH NEWLY DESIGNED BRINE CHILLER AND INSTRUMENT AIR COMPRESSOR. NEW BRINE CHILLERS WILL HAVE A SMALLER LOAD CAPACITY, AND WILL REQUIRE LESS ELECTRICAL ENERGY

SCOPE OF PROGRAM:

	PRIOR		FY-82		FY-83		FY-84		OUTYEAR		T O T A L	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
	613	25.9	292	14.2	66	3.6					971	43.7
BASIS FOR COST ESTIMATE.												
NONRECURRING		3.1										3.1
KITS	613	20.0	292	13.9	66	3.6					971	37.5
DATA		1.8										1.8
TRAINER		1.0		.3								1.3
TOTAL	613	25.9	292	14.2	66	3.6					971	43.7

METHOD OF IMPLEMENTATION: INSTALLATION - CONTRACTOR/FIELD TEAM
LEAD TIME - 9 MONTHS

MODIFICATION OF MISSILES
FY-83 PROGRAM

FY-83 APPROPRIATION: MISSILE PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: MK-12 CARBON-CARBON NOSE ASSEMBLY, MK-19204B

MODELS OF MISSILES AFFECTED: LGM-30

DESCRIPTION/JUSTIFICATION: REPLACE CARBON PHENOLIC NOSE ASSEMBLY WITH CARBON-CARBON NOSE ASSEMBLY.

SCOPE OF PROGRAM:

	PRIOR		FY-82		FY-83		FY-84		OUTYEAR		T O T A L	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
	326	5.1	360	5.3	240	3.7					926	14.1
BASIS FOR COST ESTIMATE:												
NONRECURRING		.5										.5
KITS	326	4.5	360	5.3	240	3.7					926	13.5
DATA		.1										.1
TOTAL	326	5.1	360	5.3	240	3.7					926	14.1

METHOD OF IMPLEMENTATION. INSTALLATION - DEPOT
LEAD TIME - 6 MONTHS

MODIFICATION OF MISSILES
FY-83 PROGRAM

FY-83 APPROPRIATION: MISSILE PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: WING II G&C COOLING SYSTEM, MM-50266B

MODELS OF MISSILES AFFECTED: LGM-30

DESCRIPTION/JUSTIFICATION: THIS MODIFICATION REPLACES THE CURRENT GUIDANCE AND CONTROL (G&C) COOLING SYSTEM AT WING II. THE THERMO ELECTRIC (TE) CHILLER CURRENTLY INSTALLED IS NO LONGER PROCURABLE. IN ADDITION TO THE TE CHILLER, THE GUIDANCE AND CONTROL (G&C) CHILLER CAN ONLY BE SUPPORTED THRU 1984 DUE TO NON-AVAILABILITY OF THE COMPRESSOR. A NEW COOLING SYSTEM WILL BE INSTALLED TO MEET WING II REQUIREMENTS.

SCOPE OF PROGRAM:

	PRIOR		FY-82		FY-83		FY-84		OUTYEAR		TOTAL	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
					85	9.0	75	6.2			160	15.2
BASIS FOR COST ESTIMATE:												
NONRECURRING						.6						.6
KITS					85	7.0	75	6.2			160	13.2
DATA						.3						.3
SIMULATOR MODS						1.1						1.1
TOTAL					85	9.0	75	6.2			160	15.2

METHOD OF IMPLEMENTATION. INSTALLATION - DEPOT
LEAD TIME - 24 MONTHS

MODIFICATION OF MISSILES
FY-83 PROGRAM

FY-83 APPROPRIATION: MISSILE PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: OUTER ZONE SECURITY SYSTEM, MM-56149B

MODELS OF MISSILES AFFECTED. LGM-30 F/G, MINUTEMAN II-V

DESCRIPTION/JUSTIFICATION: MODIFICATION CONSISTS OF CHANGING THE OUTER ZONE ALARM CONTROL DRAWER LOGIC CIRCUITRY TO DISCRIMINATE AGAINST NUISANCE ALARMS CAUSED BY ANIMALS, BIRDS, WEEDS, RAIN AND SNOW, AND TO ALARM ONLY ON HUMAN INTRUDERS. TESTS OF A NEW DESIGN PROCESSOR HAVE DEMONSTRATED THAT AN ALARM ON HUMAN INTRUDERS ONLY IS ACHIEVABLE.

SCOPE OF PROGRAM:

	PRIOR		FY-82		FY-83		FY-84		OUTYEARS		TOTAL	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
	620	7.6			715	3.9					1335	11.5
BASIS FOR COST ESTIMATE.												
NONRECURRING	11	1.8									11	1.8
KITS	609	3.3			715	3.8					1324	7.1
DATA		.3										.3
SUPPORT EQUIP.		2.2				.1						2.3
TOTAL	620	7.6			715	3.9					1335	11.5

METHOD OF IMPLEMENTATION. INSTALLATION - ORG/INTERMEDIATE
LEAD TIME - 18 MONTHS

MODIFICATION OF MISSILES
FY-83 PROGRAM

FY-83 APPROPRIATION: MISSILE PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: GUIDANCE COOLING UNIT, MM-59271B

MODELS OF MISSILES AFFECTED: LGM-30

DESCRIPTION/JUSTIFICATION: THIS PROGRAM WILL MODIFY THE EXISTING GUIDANCE AND CONTROL COOLER AMPLIFIERS TO INSURE PROPER OPERATION OF THE MISSILE GUIDANCE SET COOLING SYSTEM FLOW CONTROL VALVE. STRATEGIC AIR COMMAND (SAC) HAS BEEN EXPERIENCING EXCESSIVE SITE DEGRADES BECAUSE OF THIS AMPLIFIER PROBLEM.

SCOPE OF PROGRAM:

	PRIOR		FY-82		FY-83		FY-84		OUTYEAR		T O T A L	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
	157	3.9			210	7.0	230	6.0	95	3.4	692	20.3
BASIS FOR COST ESTIMATE:												
NONRECURRING		.1										.1
KITS	157	3.7			210	6.9	230	6.0	95	3.4	692	20.0
DATA		.1				.1						.2
TOTAL	157	3.9			210	7.0	230	6.0	95	3.4	692	20.3

METHOD OF IMPLEMENTATION: INSTALLATION - DEPOT/FIELD TEAM
LEAD TIME - 18 MONTHS

MODIFICATION OF MISSILES
FY-83 PROGRAM

FY-83 APPROPRIATION: MISSILE PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: AIM-7 UPDATE

MODELS OF MISSILES AFFECTED. AIM-7F

DESCRIPTION/JUSTIFICATION: THIS PERFORMANCE OPTIMIZATION PROGRAM CORRECTS DEFICIENCIES IDENTIFIED IN FOLLOW-ON TEST AND EVALUATION AND IMPROVES PERFORMANCE IN CLUTTER AND ELECTRONIC COUNTER MEASURES ENVIRONMENT. SPECIFICALLY FOUR CHANGES ARE INCLUDED:

SCOPE OF PROGRAM:

	PRIOR		FY-82		FY-83		FY-84		CUTYEAR		T O T A L	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
	1400	22.3	880	13.6	1439	7.7	653	2.6			4372	46.2
BASIS FOR COST ESTIMATE:												
NONRECURRING		.1										.1
KITS	1400	20.1	880	13.6	1439	5.8	653	2.6			4372	42.1
DATA		.2										.2
SUPPORT EQUIP.		.9										.9
TOOLING		1.0				1.9						2.9
TOTAL	1400	22.3	880	13.6	1439	7.7	653	2.6			4372	46.2

METHOD OF IMPLEMENTATION: INSTALLATION - CONTRACTOR
LEAD TIME - 12 MONTHS

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MODIFICATION OF MISSILES
FY-83 PROGRAM

FY-83 APPROPRIATION. MISSILE PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: GROUND LAUNCHED CRUISE MISSILE UPDATE

MODELS OF MISSILES AFFECTED. BGM-109 GLCM

DESCRIPTION/JUSTIFICATION: MISSILES REQUIRE CHANGES TO CORRECT DEFICIENCIES REVEALED DURING OPERATIONAL TESTING AND INITIAL USE. CORRECTIONS ARE INCORPORATED IN PRODUCTION AT THE EARLIEST TIME. UPDATE MODIFICATIONS ARE REQUIRED TO MAINTAIN CONFIGURATION CONTROL OF DELIVERED MISSILES AND THOSE TOO FAR INTO PRODUCTION FOR INCORPORATION.

SCOPE OF PROGRAM:

	PRIOR		FY-82		FY-83		FY-84		OUTYEAR		T O T A L	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
	---	---	---	---	---	---	---	---	---	---	---	---
						3.6		20.0				23.6
BASIS FOR COST ESTIMATE:												
KITS						3.6		20.0				23.6
TOTAL						3.6		20.0				23.6

1 COMPONENT	FY 19 83	FACILITY PROJECT DATA	DATE
AIR FORCE			Jan 1982

3 INSTALLATION AND LOCATION	4 PROJECT TITLE
Thiokol Corporation AF Plant #78 Brigham City UT	Expansion MPC 1000

5 PROGRAM ELEMENT	6 CATEGORY CODE	7 PROJECT NUMBER	8 PROJECT COST ($000)
78011F	222-223		3,200

9 COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
New Mixer Bldg and Modifications to M-521.	LS			3,200

10 DESCRIPTION OF PROPOSED CONSTRUCTION

New Mixer Building and Modifications to M-521. The flow distance of M-X propellant operations (oxidizer grinding, propellant mixing, and casting) will be reduced by accomplishing all M-X propellant operations in AF Plant 78. Space Shuttle Solid Rocket Motor propellant operations will then all be moved to Thiokol's R&D plant. The time to accomplish propellant mixing is reduced by 112.28 standard manhours per motor. Improved mixer and mixer building features account for a reduction of 85.43 standard manhours per motor, and reduced material handling accounts for a reduction of 26.86 standard manhours per motor. By the end of CY 1985, it is anticipated that the AF Plant 78 mixers will be heavily utilized with C-4, M-X, and Trident II mixing operations. M-X requires approximately 2 mixers, while C-4 will use 1.6 mixers of the existing 3 C-4 mixers. The remaining 1.4 mixers will be used by Trident II beginning in 1984. (Thiokol has yet to receive a contract for Trident II.) It is anticipated that another mixer building will need to be built by the Navy for Trident II. The Thiokol R&D mixers will be fully utilized with Standard Missile, Harm, and Space Shuttle SRM. Therefore, the greatest utilization of the existing AF Plant 78 and Thiokol mixer buildings will be obtained. Phase I will consist of the Architectural and Engineering and initial construction work.

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1 COMPONENT	FY 1983 PROCUREMENT PROJECT DATA	2. DATE
AIR FORCE		Jan 1982

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
Air Force Plant 78 Thiokol	ECAM MCP-9000

5. PROGRAM ELEMENT	6 CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
78011F	~~813-231~~ B21-165		12,694.5

9 COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
1. Engineering and A&E Design	LS	1	N/A	718.2
2. Construct Coal Fired Co-Generation Plant	LS		N/A	11,976.3

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10 DESCRIPTION OF PROPOSED CONSTRUCTION

1. Examine alternative technologies such as fluidized bed combustion of coal, refuse derived fuels and use of propellant waste material mixtures. These concepts will be studied for feasibility and then the design of hardware and system specifications will be prepared.

2. Construct a coal fired steam generating plant and coal handling system to serve as the primary central steam supply system for Air Force Plant 78 and a steam powered electrical generating system to supplement AF Plant 78's electrical requirements.

JUSTIFICATION: The existing steam plant is oil fired. The coal fired steam generating plant will serve as the primary central system to provide all steam to support all process and comfort heating for Air Force Plant 78. An electrical generating plant will also be provided which will utilize the steam produced from the coal fired boilers. The project is estimated to have a payback period of less than three (3) years and a savings to investment ratio of 7.4.

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1. COMPONENT	FY 1988 FACILITIES PROJECT DATA	2. DATE
Air Force		Jan 1982

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
AF Plant 78 Thiokol Corporation Brigham City UT	Expansion-MPC 1000

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
78011F	222-223		1,139.0

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
1. Core Cooldown Systems M-598, M-599, M-600	LS			225,800
2. M-512 Conversion to MX Premix				150,500
3. Foundations for 96" Mach Lathe				25,100
4. E-512 Building Addition 1,000 Sq Ft				100,400
5. Improve Lighting in the E-517 Machine Shop				105,322
6. Install Acoustical Materials to Reduct Noise in M-606 Oxidizer Prep Bldg (App A81-8)				169,607
7. Install Heaters in E-512 Plastics & Nozzle Fab Bldg (App A80-4)				20,050
8. Enclose E-506 Storage Bldg (App A80-3)				40,895
9. Foundation for Horiz Lathe N0508				12,500
10. New Fin Former Removal Bldg, 1,000 Sq Ft.				288,500

10. DESCRIPTION OF PROPOSED CONSTRUCTION

1. MX propellent cure requires a conditioned cooldown. In order to meet MX production schedules, it is necessary to cool the core of the motor. This must be accomplished in the casting buildings. Three (3) MM Casting Buildings (M-598, M-599 and M-600) will be converted and expanded for this purpose. The core cooldown system will require installation of piping, valves, switches, heat exchangers, etc. To provide water cooling capability at the core.

2. M-512 Modification - M-512 Premix Building will be used for MX Propellant premixing consistent with the consolidation of other propellant preparation operations. A building modification will be made to permit rail-to-rail transfer of mix bowls with mixing and weighing capability on adjacent rail stations. For adequate headroom a roof section will be raised.

3. Install one (1) concrete foundation. A foundation is required to support a Thiokol purchased 96 inch insulation machine lathe which will be installed in Building M-508 to support the MX mandrel machining. Existing machines in M-508 do not have capacity under the rail to accommodate the MX Aft Mandrel and existing machines in M-113 will be fully utilized by SRM during MX production.

4. The E-512 plastics and nozzle fabrication building requires the addition of 1,000 sq ft to house a new 300-ton molding press and a spray booth. The molding press is required to give both pressure and dimensional capacities needed to support existing C-4 and MX Production. This press is used to fabricate nozzle shims and exit rings. A spray booth is needed to pro-

1. COMPONENT	FY 1983 FACILITIES PROJECT DATA	2. DATE
Air Force		Jan 1982

3. INSTALLATION AND LOCATION
AF Plant 78 Thiokol Corporation
Brigham City UT

4. PROJECT TITLE	5. PROJECT NUMBER
Expansion-MPC 1000	

vide adequate spraying capability for MX. The existing spray booth is sized for C-4 and a larger booth is required to allow efficient production of MX nozzles.

5. Installation of new light fixtures and circuit breakers in the Machine Shop High Bay to increase the present 20-25 fc lighting level to 100 fc lighting level.

6. This is considered an emergency item for the protection of workers hearing, as provided by law. Sound screen absorber units will be hung from ceiling, placed around equipment where possible, fixed to walls and duck work, and used to replace moving equipment pads.

7. Install (1) modine model HC535 (121 BMTU/HR) heater in northwest corner of Plastic Shop. Install (2) modine model PT-500 (500 MBTU/HR) on north side and southeast corner of the Plastic Shop. Install local controls for each unit heater.

8. The E-506 Storage Shed in the current condition with two side walls only serves no practical purpose except for open storage. With all on-site facilities fully utilized, the installation of front and rear walls and doors at nominal cost will provide 50'L X 25'W (1250 sq ft) of enclosed storage area. This area will be used for storage of new tires used on all vehicles, salt used in the plant boilers and other items requiring inside storage. Current configuration: Two 25' wide end walls and metal roof supported with pipe anchored to a concrete slab.

9. Install a concrete foundation in Building M-508 to support the Thiokol purchased 27" X 240" horizontal lathe which is required for machining the Third Stage Minutement Case Insulation.

10. Build a new 1,000 sq ft x-proof building with remote control for Minuteman Stage III fin former removal. This building will contain a control room, fin former removal stand, 5-ton bridge crane and rails the length of the building. Building M-67 was used for fin former removal during previous Minuteman Programs, but it is now fully utilized by Space Shuttle for SRM final assembly. There is no other facility available for the fin former removal operation; therefore, a new building is required.

Basis of Need: These items have been determined by evaluation of MX Development Facility Program requirements, cycle times, production rates, available facilities, and other program usage of facilities. These items constitute the minimum facilities required for MX Production at 6 motors/month.

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1 COMPONENT	FY 1983	FACILITY PROJECT DATA	2 DATE
AIR FORCE			Jan 1982

3 - INSTALLATION AND LOCATION	4 PROJECT TITLE
AF Plant #44, Hughes Aircraft, Tucson AZ	Expansion MPC 1000

5 PROGRAM ELEMENT	6 CATEGORY CODE	7 PROJECT NUMBER	8 PROJECT COST ($000)
78011F	222-222		4700.0

9 COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Provide Plating Shop Building	LS			4,700

10 DESCRIPTION OF PROPOSED CONSTRUCTION

Construct a 24,000 sq ft building to house the plating shop operation. The current plating shop in Bldg 801 has become structurally unsound and unsafe because of the constant exposure to corrosive chemicals used in the plating processes. If this project is not approved, then some $4.7 million in CTR costs will have to be approved in FY 82 to correct current deficiencies. This facility will be used to plate, deburr and heat-treat all fabricated parts. The contractor will provide approximately $7 million in severable property to modernize this facility.

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1 COMPONENT	FY 19 83	FACILITY PROJECT DATA	2 DATE
AIR FORCE			Jan 1982

3 INSTALLATION AND LOCATION	4 PROJECT TITLE
AF Plant #44 Hughes Aircraft Tucson AZ	Expansion MPC 1000

5 PROGRAM ELEMENT	6 CATEGORY CODE	7 PROJECT NUMBER	8 PROJECT COST ($000)
78011F	222-222		3.821

9 COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Provide A&E AMRAAM Bldg Phase I	LS			235.0
Construction AMRAAM Building Phase II	LS			3566.0

10 DESCRIPTION OF PROPOSED CONSTRUCTION

An evaluation of facility requirements for the production phase of the AMRAAM Program reveals that a final assembly and test building of approximately 27,500 sq ft will be required in the Final Assembly and Checkout (FACO) Area at USAF Plant No. 44 in order to support the production rates required for the program. (See Figure 1.)

The proposed construction was indicated and submitted to the Air Force in the AMRAAM Validation Phase Proposal, Volume IV.

Lesser production rates of the AMRAAM Full Scale Development Phase are planned to be accommodated by sharing existing Building No. 864 with other programs as depicted on Drawing AM-4 attached; however, by the time the AMRAAM Program progresses to the production phase, the shared portion of existing Building No. 864 will not be capable of providing the capacity required for AMRAAM production. All of the existing facilities within the Final Assembly and Checkout Area are being utilized by othe on-going production programs (See Figure II); therefore, the only manner in which the AMRAAM production can be maintined at the required level is by the provision of a separate, new building dedicated to the final assembly and test function.

The proposed building will be similar to the existing Phoenix Final Assembly and Test Building No. 864. This similarity will minimize costs and allow maximum facility flexibility and utilization; in addition, the design provides the necessary versatility to adapt to the leader/follower or the single contractor concept for the AMRAAM Program, regardless of which is selected by the Air Force.

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MULTIYEAR PROCUREMENT

Pursuant to a request by the House Appropriations Committee to submit Multiyear Procurement material concurrent with the justification material for the budget request, the attached material for Multiyear Procurement is being submitted.

Air Force

Criteria Assessment

Navstar Global Positioning System (GPS)

1. Benefit to the Government. Provides a $276.7 million (17.1%) cost avoidance using a block buy approach. Establishes a three dimensional, worldwide, navigation capability in 1988 (versus 1990) when compared to an annual contract approach. Includes the IONDS Global Segment (IGS) as a critical payload.

2. Stability of Requirement. The requirement for 28 satellites is expected to remain unchanged during the contract period. The 28 satellite procurement supports establishment of the directed 18 satellite constellation, on-orbit spares, and the initial replenishment satellites. Data from the R&D effort support projected spares and replenishment requirements. Risk is assessed as low.

3. Stability of Funding. The Air Force is committed to fund the GPS program to meet a 1988 three dimensional capability. The Air Force also supports the block buy procurement appproach (incremental funding) that fully funds the government's annual termination liability. An administrative realignment of funds within GPS is required to support the block buy. Conversion of $29.6M in FY 84 from Research, Development, Test and Evaluation, Air Force to Missile Procurement, Air Force, within GPS is being implemented in the FY 84 POM. The DoD Five Year Defense Program supports the required funding; therefore, the funding risk is assessed as low.

4. Stable Configuration. The GPS Block II production satellites are an evolution of the eleven procured Block I RDT&E funded satellites. The first Block II satellite (satellite number 12, also RDT&E funded) has been under contract since December 1980. It is a Qualification Test Vehicle (QTV). It has a well understood design (backed by three years of operations, studies and analysis). The same specification as the QTV will be used for the 28 satellite buy. Risk related to configuration stability is assessed as low.

5. Degree of Cost Confidence. The cost/price history of the GPS program (1974-present) forms a solid basis for estimating future costs and comes from actual cost history from the development of eleven Block I GPS satellites and the first Block II GPS satellite. The multiyear proposal is based on both program office and contractor estimates. Cost risk is assessed as low.

6. Degree of Confidence in Contractor Capability. The contractor, Rockwell International, has a history of successful performance in this program. Since 1974 the contractor has performed under three FPIF contracts for GPS totalling over $250 million. The Air Force has completed a Production Readiness Review at Rockwell International and its major subcontractors' facilities. They are ready to produce GPS production satellites. The contractor capability risk is assessed as low.

257 B

Exhibit No. 1

ACQUISITION STRATEGY COMPARATIVE SUMMARY

NAVSTAR GLOBAL POSITIONING SYSTEM

(TY $M)

	ANNUAL	MULTIYEAR
NR UNITS	28	28
TOTAL CONTRACT PRICE 1/	1620.0	1343.3
CANCELLATION CEILING		N/A 2/
$ COST AVOIDANCE OVER ANNUAL		276.7
% COST AVOIDANCE OVER ANNUAL		17.1%
RISK RELATED FACTORS 3/		
- REQUIREMENT STABILITY		LOW
- FUNDING STABILITY		LOW
- CONFIG STABILITY		LOW
- COST CONFIDENCE		LOW
- CONFIDENCE IN CONTRACTOR CAPABILITY		LOW

1/ INCLUDES FUNDS FOR GPS SATELLITE, IONDS, AND PAM D.

2/ INCREMENTALLY FUNDED TO TERMINATION LIABILITY.

3/ AN EXPLANATION OF THE RISK ASSESSMENT FOR EACH FACTOR IS INCLUDED IN THE EXHIBIT WHICH ADDRESSES THE "CRITERIA OF SELECTION."

Exhibit No. 2

259C

Navstar GPS Funding Plan Comparison 1/

Missile Procurement, Air Force 2/

(TY $M)

	FY 1982 Qty/Amt	FY 1983 Qty/Amt	FY 1984 Qty/Amt	FY 1985 Qty/Amt	FY 1986 Qty/Amt	FY 1987 Qty/Amt	To Complete	Total Qty/Amt
Annual Proposal								
End Item	0/20.5	1/162.3	3/242.0	7/374.0	7/334.4	7/327.9	3/158.9	28/1620.(
Advance Funding - None								
Other	0	0	0	45.6	104.9	139.6	624.1	914.2 3/
Total Budget Request	20.5	162.3	242.0	419.6	439.3	467.5	783.0	2534.2 3/
Multi-Year Proposal								
End Item	28/20.5	0/162.3	0/234.1	0/363.2	0/245.4	0/179.8	0/138.0	28/1343.3
Advance Funding - None								
Other	0	0	0	45.6	104.9	139.6	624.6	917.4 3/
Total Budget Request	20.5	162.3	234.1	408.8	350.3	319.4	762.6	2258.0 3/
Proposed Saving Over Annual	0	0	+7.9	+10.8	+89.0	+148.1	+20.9	276.7

Exhibit No. 3

251 D

Navstar GPS Funding Plan Comparison 1/

Missile Procurement , Air Force 2/

(TY $M)

	FY 1982 Qty/Amt	FY 1983 Qty/Amt	FY 1984 Qty/Amt	FY 1985 Qty/Amt	FY 1986 Qty/Amt	FY 1987 Qty/Amt
FY83 Pres Budget						
GPS 4/	20.1	102.0	178.9	352.4	309.8	286.4
IONDS	0.4	22.5	23.4	24.9	25.5	25.9
Related PAM D	0	37.8	31.8	31.5	15.0	7.1
TOTAL	20.5	162.3	234.1	408.8	350.3	319.4

Outlays	FY 82	FY 83	FY 84	FY 85	FY 86	FY 87	FY 88	FY 89 to FY96	TOTAL
Annual	1.5	23.5	109.1	202.6	324.7	399.2	405.7	1067.9	2534.2
Multiyear	10.0	151.0	216.0	173.3	199.8	208.6	300.5	996.8	2258.0
Difference	+8.5	+127.5	+106.9	-29.3	-124.9	-190.6	-105.2	-69.1	-276.2

1/ Incrementally funded to termination liability.
2/ Includes GPS Satellites, IONDS, and PAM D.
3/ Includes funding only through FY 90. Continued funding required beyond FY 90 to continue to procure replenishment sa GPS constellation.
4/ Anticipates approval of 1415 reprogramming of $20.1M into GPS which is not reflected in the FY 82 column of the budget. Also includes $29.6M in FY 84 being converted from Research Development Test and Evaluation, Air Force to Missile Procurement, Air Force within GPS in FY 84 POM.
5/ Outlays continue through FY 95 for annual buy or through FY 90 for block buy.

Exhibit No. 3

257 E

IMPACT OF INFLATION ON FUNDING AND SAVINGS

	($ in Millions)		
	Total Multiyear Contract	Total Program Cost	Total Savings
+2%	1495.5	2570.9	315.5
+1%	1417.7	2420.2	288.6
Budget 1/	1343.3	2258.0	276.7
-1%	1272.2	2115.3	259.0
-2%	1204.8	1962.7	242.0

1/ FY 82 through FY 90

Exhibit No. 4

259 F

SAVINGS AND COST AVOIDANCE

	FY 82	FY 83	FY 84	FY 85	FY 86	FY 87	FY 88	FY 89	FY 90	TOTAL
Annual Contract($M)	20.5	162.3	242.0	374.0	334.4	327.9	124.4	17.5	17.0	1620.0
Quantity		(1)	(3)	(7)	(7)	(7)	(3)			
Multiyear Contract($M)	20.5	162.3	234.1	363.2	245.4	178.8	98.5	39.5	0	1343.3
Quantity	(28)									
Difference($M)	-0-	-0-	7.9	10.8	89.0	148.1	25.9	(22.0)	17.0	276.7

Source of Savings	($ in Millions)
Vendor Procurement	$ 56.0
Manufacturing	123.2
Design/Engineering	14.0
Tool Design	10.7
Support Equipment	-0-
Other	72.8
	$276.7

Explanations of the savings identified follow:

Exhibit No. 5

251 G

o Vendor Procurement ($56.0 million): Raw materials such as aluminum bar and sheet stock are less costly if procured in larger quantities. Savings accrue from shipping and handling efficiencies. Electronic parts are cheaper in larger quantities due to fewer inspections, tests and handling. In addition, there are shipping efficiencies from these larger quantities. Larger quantities mean fewer set-ups and the cost of the set-ups can be spread over more units.

o Manufacturing ($123.2 million): This area is very labor intensive. The block-buy approach allows for a steady work flow that results in a smooth and fairly steep learning curve. For example, the composite learning curve for the block buy approach is 85% slope versus a 91% slope for the annual buy contracting approach. A smooth flow of work through the fabrication departments results in less rework and scrap. Savings in components are derived from optimum production rates. Examples of these production rates follow:

Component	Production Rate
Structure and Wire Harness	10/year
Rocket Motor Support Ring	40/year
Combined Earth Sensor	12/year
Reaction Wheels	28/year

Manufacturing at optimum production rates also allows the optimum use of test facilities by insuring that a smooth and steady amount of work is processed through the test facilities.

o Design/Engineering ($14.0 million): The design for the first 28 satellites is well understood. The specification is the same as that used for the Qualification Test Vehicle (QTV). Under the block buy single contract approach, fewer configuration changes are introduced because yearly contracts allowing implementation of changes are avoided.

o Tool Design ($10.7 million): Under the block buy approach, the contractor will tool up his plan for the complete production run of 28 satellites. Under the annual buy approach he would tool up at least three times for three different production rates, i.e., at one satellite per year, three satellites per year, and finally, at seven satellites per year. Those quantities represented the annual buy rates for three separate years.

o Support Equipment: (Quantifiable savings do not exist)

o Other ($72.8 million): Savings in this category accrue from support cost (overhead). Approximately the same number of support personnel are required in overhead personnel areas, e.g., business management and procurement to support the procurement of one satellite vs 28 satellites. Therefore, fixed, variable and semivariable costs are spread over more units. In addition, the procurement process under a block buy approach occurs once versus six times under the annual buy approach. Furthermore, the block buy procurement allows for delivery of the 28 satellites 18 months sooner than under an annual buy approach, thus saving a significant amount of overhead cost.

251H

Exhibit No. 5

UNQUANTIFIED COST FACTORS

Annual Buy

- o Leads to parts obsolescence because of the uneconomic ordering quantities and longer production run (18 months).
- o The low suboptimum production rate means there is less incentive for the contractor to make capital investments.
- o There is an annual pressure and opportunity to change the configuration
- o There is less subcontractor business stability.
  - Firms have folded
  - Others have increased cost

Block Buy

- o There is reduced electronic parts obsolescence.
- o There is increased business stability.
- o There is improved incentive for contractors to make capital investment because future business is assured.
- o The government can negotiate better contract terms and conditions.
- o Higher quality is obtained because of improved learning and fewer configuration changes.

Exhibit No. 5

259 I

IMPACT ON DEFENSE INDUSTRIAL BASE

o Improved Competition: Subcontractor level competition may be expanded under the proposed multiyear contract; however, specific items have not been identified. We have dual sources on the satellite clocks (rubidium and cesium atomic time standards). Both vendors have been fully qualified. In addition, contingency plans exist for other selected critical items to go to a second source.

o Enhanced Investment: The prime contractor has committed to a capital investment program in which he will add an anachoic chamber, two thermal cycle chambers, data processing facility, antenna test equipment and a liquid nitrogen tank farm. Subcontractors will add test cells and automatic test equipment, as well as improve their facilities.

o Improvement in Vendor Skill Levels: Stable program quantities will improve vendor manning levels, and stable manning levels will result in improved productivity.

o Training Program: The prime contractor has implementd two training courses (both approved by the UAW). They are:

- o A 244 person training program covering three areas (structures/mechanical bonding, and electrical).
- o A 20 week (8 hours oer day) course in machine operations.

o Progress Payment Changes: Flexible progress payments up to 95% may be negotiated. Similar progress payment provisions will flow down to the subcontractors.

o Use of Multiyear Contractors (Vendors): The prime contractor will negotiate block buy contracts with his subcontractors.

o Increased Production Capacity: In addition to the actions cited in other answers, the prime contractor has revised his purchase order process to take advantage of the multiyear contract.

Exhibit No. 6

257 J

OTHER PROCUREMENT, AIR FORCE

For procurement and modification of equipment (including ground guidance and electronic control equipment, and ground electronic and communication equipment), and supplies, materials, and spare parts therefor, not otherwise provided for; the purchase of not to exceed one thousand three hundred and fifty-nine passenger motor vehicles for replacement and augmentation, and expansion of public and private plants, Government-owned equipment and installation thereof in such plants, erection of structures, and acquisition of land without regard to Section 9774 of Title 10, United States Code, for the foregoing purposes, and such lands and interests therein may be acquired, and construction prosecuted thereon prior to the approval of Title as required by Section 355, Revised Statutes, as amended: reserve plant and Government and contractor-owned equipment layaway $5,845,200,000 to remain available for obligation until September 30, 1985. (5 U.S.C. 3109; 10 U.S.C. 2110, 2353, 2386, 8012, 9505, 9531-32, 31 U.S.C. 638a, 638c, 649c, 718, 50 U.S.C. 491-94 Department of Defense Appropriation Act, 1982; additional authorization legislation to be proposed.)

251 K

Program and Financing (in thousands of dollars)

Identification code 57-3080-0-1-051	Budget plan (amounts for procurement actions programed)			Obligations		
	1981 actual	1982 est.	1983 est.	1981 actual	1982 est.	1983 est
Program by activities:						
Direct:						
1. Munitions and associated equipment	344,389	1,081,003	854,200	329,070	722,892	864,727
2. Vehicular equipment	156,078	331,338	350,400	150,490	240,453	323,197
3. Electronics and telecomunications equipment	706,833	1,106,335	1,427,300	659,838	963,475	1,241,185
4. Other base maintenance and support equipment	1,936,778	2,848,757	3,213,300	1,909,963	2,502,648	3,097,538
Total direct	3,148,078	5,366,433	5,845,200	3,049,361	4,429,468	5,526,647
Reimbursable program	174,547	231,000	184,000	177,045	177,111	174,812
10.0001 Total	3,322,625	5,597,433	6,029,200	3,226,406	4,606,579	5,701,459
Financing:						
Offsetting collections from:						
11.0001 Federal funds	-151,275	-170,000	-150,000	-149,656	-170,000	-150,000
13.0001 Trust funds	-16,682	-19,000	-1,000	-21,463	-19,000	-1,000
14.0001 Non-federal sources	-6,590	-42,000	-33,000	51,298	-42,000	-33,000
17.0001 Recoveries of prior year obligations(-)	.....	.....	.....	-8,792	.....	.....
Unobligated balance available, start of year:						
21.4001 For completion of prior year budget plans	.....	.....	.....	-875,199	-707,614	-1,698,468
21.4002 Available to finance new budget plans	.....	-800	.....	.....	-800	.....
21.4003 Reprograming from or to prior year budget plan	-19,870	.....	.....	.....	.....	.....
Unobligated balance available, end of year:						
24.4001 For completion of prior year budget plans	.....	.....	.....	707,614	1,698,468	2,026,209
24.4002 Available to finance subsequent year budget plans	800	.....	.....	800	.....	.....
25.0001 Unobligated balance lapsing	19,870	800	.....	19,870	800	.....
39.0001 Budget authority	3,148,878	5,366,433	5,845,200	3,148,878	5,366,433	5,845,200
Budget authority:						
40.0001 Appropriation	3,149,578	5,365,633	5,845,200	3,149,578	5,365,633	5,845,200
41.0001 Transferred to other accounts(-)	-700	.....	.....	-700	.....	.....
43.0001 Appropriation (adjusted)	3,148,878	5,365,633	5,845,200	3,148,878	5,365,633	5,845,200
50.0001 Reappropriation	.....	800	.....	.....	800	.....
Relation of obligations to outlays:						
71.0001 Obligations incurred, net				3,104,585	4,375,579	5,817,459
72.4001 Obligated balance, start of year				1,625,663	1,786,428	2,628,807
74.4001 Obligated balance, end of year				-1,786,428	-2,328,807	-3,355,066
77.0001 Adjustments in expired accounts				-19	.....	.....
78.0001 Adjustments in unexpired accounts				-8,792	.....	.....
90.0001 Outlays				2,935,010	3,533,200	4,791,200

Object Classification (in thousands of dollars)

Identification code 57-3080-0-1-051		1981 actual	1982 est.	1983 est.
	Direct obligations:			
131.001	Equipment	3,049,361	4,429,468	5,526,647
199.001	Total direct obligations	3,049,361	4,429,468	5,526,647
	Reimbursable obligations:			
231.001	Equipment	177,045	177,111	174,812
999.901	Total obligations	3,226,406	4,606,579	5,701,459

Program and Financing (in thousands of dollars) 1979 Fiscal year program

Identification code 57-3080-0-1-051		Budget plan (amounts for procurement actions programed)			Obligations		
		1981 actual	1982 est.	1983 est.	1981 actual	1982 est.	1983 est.
	Program by activities:						
	Direct:						
	1. Munitions and associated equipment	.....	.....	.....	11,446	.....	.....
	2. Vehicular equipment	.....	.....	.....	3,611	.....	.....
	3. Electronics and telecomunications equipment	.....	.....	.....	76,251	.....	.....
	4. Other base maintenance and support equipment	.....	.....	.....	16,629	.....	.....
	Total direct	.....	.....	.....	107,937	.....	.....
	Reimbursable program	.....	.....	.....	1,324	.....	.....
10.0001	Total	.....	.....	.....	109,261	.....	.....
	Financing:						
	Offsetting collections from:						
11.0001	Adjustment to prior year federal fund orde	.....	.....	.....	3,768	.....	.....
13.0001	Adjustment to prior year trust fund orders	.....	.....	.....	-1,632	.....	.....
17.0001	Recoveries of prior year obligations(-)	.....	.....	.....	-5,197	.....	.....
	Unobligated balance available, start of year:						
21.4001	For completion of prior year budget plans	.....	.....	.....	-125,890	.....	.....
21.4002	Reprograming from or to prior year budget plan	-19,870	.....	.....	.....	.....	.....
25.0001	Unobligated balance lapsing	19,870	.....	.....	19,870	.....	.....
40.0001	Budget authority	.....	.....	.....	.....	.....	.....

Program and Financing (in thousands of dollars) — 1980 Fiscal year program

Identification code 57-2080-0-1-051	Budget plan (amounts for procurement actions programed)			Obligations		
	1981 actual	1982 est.	1983 est.	1981 actual	1982 est.	1983 est
Program by activities:						
Direct:						
1. Munitions and associated equipment	.....	.....	.....	31,753	8,112	.....
2. Vehicular equipment	.....	.....	.....	29,102	11,677	.....
3. Electronics and telecommunications equipment	.....	.....	.....	208,328	80,716	.....
4. Other base maintenance and support equipment	.....	.....	.....	62,316	25,033	.....
Total direct	.....	.....	.....	329,499	125,538	.....
Reimbursable program	.....	.....	.....	25,704	21,393	.....
10.0001 Total	.....	.....	.....	355,203	146,931	.....
Financing:						
Offsetting collections from:						
11.0001 Adjustment to prior year federal fund orde	.....	.....	.....	-2,165	.....	.....
13.0001 Adjustment to prior year trust fund orders	.....	.....	.....	-4,949	.....	.....
14.0001 Adjustment to non-federal sources	.....	.....	.....	57,868	.....	.....
17.0001 Recoveries of prior year obligations(-)	.....	.....	.....	-3,595	.....	.....
21.4001 Unobligated balance available, start of year	.....	.....	.....	-549,309	-146,931	.....
24.4001 Unobligated balance available, end of year	.....	.....	.....	146,931	.....	.....
40.0001 Budget authority	.....	.....	.....	.....	.....	.....

AF | Other Procurement, Air Force | 08 FEB 82

Program and Financing (in thousands of dollars) | 1981 Fiscal year program

Identification code 57-3080-0-1-051	Budget plan (amounts for procurement actions programed)			Obligations		
	1981 actual	1982 est.	1983 est.	1981 actual	1982 est.	1983 est
Program by activities:						
Direct:						
1. Munitions and associated equipment	344,389	.....	.....	285,871	35,111	23,407
2. Vehicular equipment	156,078	.....	.....	117,777	24,181	16,120
3. Electronics and telecomunications equipment	708,833	.....	.....	572,269	198,944	132,630
4. Other base maintenance and support equipment	1,938,778	.....	.....	1,831,018	29,021	76,739
Total direct	3,148,078	.....	.....	2,811,225	287,257	248,896
Reimbursable program	174,547	.....	.....	150,017	14,718	9,812
10.0001 Total	3,322,625	.....	.....	2,761,942	301,975	258,708
Financing:						
Offsetting collections from:						
11.0001 Federal funds	-151,275	.....	.....	-151,275	.....	.....
13.0001 Trust funds	-16,682	.....	.....	-16,682	.....	.....
14.0001 Non-federal sources	-6,590	.....	.....	-6,590	.....	.....
Unobligated balance available, start of year:						
21.4001 For completion of prior year budget plans	.....	.....	.....	.....	-560,683	-258,708
21.4002 Available to finance new budget plans	.....	-800	.....	.....	-800	.....
Unobligated balance available, end of year:						
24.4001 For completion of prior year budget plans	.....	.....	.....	560,683	258,708	.....
24.4002 Available to finance subsequent year budget plans	800	.....	.....	800	.....	.....
25.0001 Unobligated balance lapsing	.....	800	.....	.....	800	.....
39.0001 Budget authority	3,148,878	.....	.....	3,148,878	.....	.....
Budget authority:						
40.0001 Appropriation	3,149,578	.....	.....	3,149,578	.....	.....
41.0001 Transferred to other accounts(-)	-700	.....	.....	-700	.....	.....
43.0001 Appropriation (adjusted)	3,148,878	.....	.....	3,148,878	.....	.....

AF | Other Procurement, Air Force | 08 FEB 82

Program and Financing (in thousands of dollars) | 1982 Fiscal year program

Identification code 57-3080-0-1-051	Budget plan (amounts for procurement actions programed)			Obligations		
	1981 actual	1982 est.	1983 est.	1981 actual	1982 est	1983 est.
Program by activities:						
Direct:						
1. Munitions and associated equipment	.....	1,081,303	.....	.....	879,669	256,269
2. Vehicular equipment	.....	331,338	.....	.....	204,595	77,142
3. Electronics and telecommunications equipment	.....	1,105,335	.....	.....	683,815	257,832
4. Other base maintenance and support equipment	.....	2,849,757	.....	.....	2,448,594	249,686
Total direct	.....	5,366,433	.....	.....	4,016,673	840,329
Reimbursable program	.....	231,000	.....	.....	141,000	53,000
10.0001 Total	.....	5,597,433	.....	.....	4,157,673	893,929
Financing:						
Offsetting collections from:						
11.0001 Federal funds	.....	-170,000	.....	.....	-170,000	.....
13.0001 Trust funds	.....	-19,000	.....	.....	-19,000	.....
14.0001 Non-federal sources	.....	-42,000	.....	.....	-42,000	.....
21.4001 Unobligated balance available, start of year	.....	.....	.....	.....	.....	-1,439,760
24.4001 Unobligated balance available, end of year	.....	.....	.....	.....	1,439,760	545,831
39.0001 Budget authority	.....	5,366,433	.....	.....	5,366,433	.....
Budget authority:						
40.0001 Appropriation	.....	5,365,633	.....	.....	5,365,633	.....
60.0001 Reappropriation	.....	800	.....	.....	800	.....

Program and Financing (in thousands of dollars) 1983 Fiscal year program

Identification code 57-3080-0-1-051	Budget plan (amounts for procurement actions programed)			Obligations		
	1981 actual	1982 est.	1983 est.	1981 actual	1982 est.	1983 est.
Program by activities:						
Direct:						
1. Munitions and associated equipment	.....	.....	854,200	.....	.....	585,051
2. Vehicular equipment	.....	.....	350,400	.....	.....	229,935
3. Electronics and telecomunications equipment	.....	.....	1,427,300	.....	.....	850,723
4. Other base maintenance and support equipment	.....	.....	3,213,300	.....	.....	2,771,113
Total direct	.....	.....	5,845,200	.....	.....	4,436,822
Reimbursable program	.....	.....	184,000	.....	.....	112,000
10.0001 Total	.....	.....	6,029,200	.....	.....	4,548,822
Financing:						
Offsetting collections from:						
11.0001 Federal funds	.....	.....	-150,000	.....	.....	-150,000
13.0001 Trust funds	.....	.....	-1,000	.....	.....	-1,000
14.0001 Non-federal sources	.....	.....	-33,000	.....	.....	-33,000
24.4001 Unobligated balance available, end of year	.....	.....	.....	.....	.....	1,480,378
40.0001 Budget authority	.....	.....	5,845,200	.....	.....	5,845,200

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(Supplemental now requested under existing legislation)

Program and Financing (in thousands of dollars)

Identification code 57-3080-1-1-051	Budget plan (amounts for procurement actions programed)			Obligations		
	1981 actual	1982 est.	1983 est.	1981 actual	1982 est.	1983 est.
Program by activities:						
Direct:						
10.0001 Total	.....	40,470	.....	.....	24,687	9,308
Financing:						
21.4001 Unobligated balance available, start of year	.....	.....	.....	.....	.....	15,763
24.4001 Unobligated balance available, end of year	.....	.....	.....	.....	15,763	6,455
40.0001 Budget authority (appropriation)	.....	40,470	.....	.....	40,470	.....
Relation of obligations to outlays:						
71.0001 Obligations incurred, net				.....	24,687	9,308
72.4001 Obligated balance, start of year				.....	.....	17,787
74.4001 Obligated balance, end of year				.....	-17,787	-12,395
90.0001 Outlays				.....	6,900	14,700

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(Supplemental now requested under existing legislation)

Object Classification (in thousands of dollars)

Identification code 57-3080-1-1-051		1981 actual	1982 est.	1983 est.
131.001	Equipment	.....	24,687	9,308
999.901	Total obligations	.....	24,687	9,308

INTRODUCTORY STATEMENT

DIRECT BUDGET PLAN - OTHER PROCUREMENT, AIR FORCE

(In Thousands of Dollars)

BUDGET ACTIVITY	FY 1982	FY 1983	Difference	FY 1984
Munitions and Associated Equipment	$ 1,081,003	$ 854,200	$ -226,803	$ 1,535,400
Vehicular Equipment	331,338	350,400	+19,062	408,400
Electronics and Telecommunications Equipment	1,105,335	1,427,300	+321,965	2,063,845
Other Maintenance and Support Equipment	2,889,227	3,213,300	+324,073	4,314,900
TOTAL DIRECT PROGRAMS	$ 5,406,903	$ 5,845,200	$ +438,297	$ 8,322,245

The Other Procurement, Air Force (OPAF), appropriation provides the central procurement of all major ground equipment except for that equipment which is peculiar to the support of individual airborne weapon systems. Provision is also made for procurement of the spares and repair parts, supplies and materials, modification, and industrial preparedness (manufacturing technology) integral to the procurement programs. It also provides for local procurement of equipment items costing $3,000 or more, not centrally procured.

The appropriation consists of four budget activities: (1) Munitions and Associated Equipment; (2) Vehicular Equipment; (3) Electronics and Telecommunications Equipment and (4) Other Base Maintenance and Support Equipment.

The total direct budget plan for FY 1983 is $5.845.2 million, an increase of $438.3 million over the direct budget plan for FY 1932 as shown above. This increase is a result of the following changes:

Munitions and Associated Equipment - The $226.8 decrease is a result of the $663 million FY 1932 Amendment which increased WRM stocks. However, there are increases in the 40MM cartridges, Laser Bomb Guidance Kits, CBU-90 bombs and M-206 Cartridge Flares.

Vehicular Equipment - The $19.1 million increase reflects greater emphasis on readiness vehicles such as cargo-utilities vehicles to support fighter/bomber and missile missions and base maintenance vehicles such as scoop loaders, cranes and excavators.

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Electronics and Telecommunications Equipment - The $324.1 million net increase is associated with programs such as Communications Security Equipment, Cheyenne Mountain Complex, Pave Paws, Distant Early Warning (DEW) Radars, Range Improvements, Base Level Data Automation, Joint Tactical Comm Program and Replenishment Spares.

Other Base Maintenance and Support Equipment - The $324.1 net increase is due to significant inreases in Selected Activities.

Fiscal Year 1984 - Funding requested for authorization in FY 1984 for the Other Procurement, Air Force Appropriation is primarily to continue the effort outlined above for FY 1983.

New obligational authority equal to the amount of the direct budget plan is required to finance the planned FY 1983 program.

FY 1983 HIGHLIGHTS

Program requirements for Munitions and Associated Equipment are $854.2 million, a decrease of $226.8 million from FY 1982 as a result of the $663 million FY 1982 Amendment, which increased WRM stocks. However, there are increases in the 40MM Cartridges, Laser Bomb Guidance Kits, CBU-89 Bombs and M-206 Cartridge Flares.

Program requirements for Vehicular Equipment are $350.4 million, an increase of $19.1 million over the program for FY 1982. This significant program increases are in cargo-utility vehicles such as five ton cargo trucks, tractor trucks over five tons, and wrecker trucks and base maintenance vehicles such as scoop loaders, cranes and excavators.

Program requirements for Electronics and Telecommunications Equipment are $1,427.3 million, an increase of $321.9 million over the FY 1982 program. The FY 1983 program continues the Communications Security Program, the Defense Support Program, Minimally Attended Radar Systems, and Transportable Ground Intercept Facility (TGIF). Significant increases are in Cheyenne Mountain Complex, Pave Paws, Distant Early Warning (DEW) Radars, Range Improvements, Radar Bomb Scorers, Joint Tactical Comm Program and Replenishment Spares.

Program requirements for Other Base Maintenance and Support Equipment are $3,213.3 million, an increase of $329.1 million over the FY 1982 program. Selected Activities is increased by $581.7 million. New items in the FY 1983 program are mobile electric generators, fuel bladders, mobility containers and Wartime Host Nation Support.

The individual budget activity justification elaborates on FY 1983 program requirements and provide additional detail on the above outlined increases.

SUMMARY OF REQUIREMENTS

(In Thousands of Dollars)

	FY 1981 Actual	FY 1982 Actual	FY 1983 Estimate	FY 1984 Estimate
Munitions and Associated Equipment	$ 344,389	$ 1,081,003	$ 854,200	$1,535,400
Vehicular Equipment	158,078	331,338	350,400	408,100
Electronics and Telecommunication Equipment	708,833	1,105,335	1,427,300	2,063,845
Other Base Maintenance and Support Equipment	1,936,778	2,848,757	3,213,300	4,314,900
TOTAL DIRECT PROGRAM	3,148,078	5,366,433	5,845,200	8,322,245
Reimbursable Program	174,547	231,000	184,000	
TOTAL PROGRAM REQUIREMENTS (CURRENT)	3,322,625	5,597,433	6,029,200	
Less: Portion of program to be obligated in subsequent fiscal years	560,683	1,439,750	1,480,378	
Plus: Obligations incurred against prior year program funds	464,464	448,906	1,152,637	
TOTAL OBLIGATIONS	3,226,406	4,606,579	5,701,459	

(In Thousands of Dollars)

Direct Program Requirements - FY 1984 -	$ 1,535,400
Direct Program Requirements - FY 1983 -	854,200
Direct Program Requirements - FY 1982 -	1,081,003
Direct Program Requirements - FY 1981 -	344,389

ACTIVITY: Munitions and Associated Equipment

PART I - PURPOSE AND SCOPE

Provides munitions for Tactical and Strategic Forces including: cartridges, bombs, chaff and flare cartridge armament training devices, spares and repair parts, and equipment modifications. This materiel is required for: (1) training of aircrews in weapon employment; (2) maintaining pilot-crew combat proficiency; (3) training weapons personnel in maintenance, storage, movement, assembly, and loading of munitions; and (4) the procurement of War Reserve Materiel (WRM) to meet specified inventory objectives.

PART II - JUSTIFICATION OF FUNDS REQUESTED

The FY 1983 Program includes funds for the procurement of: Small Arms Ammunition; 20MM Training Cartridges; 30MM Training/High Explosive Incendiary/Armor Piercing Incendiary Cartridges; Practice Bombs (BDU-33, MK-82); Guided Bombs and Laser Bomb Guidance Kits; Flares and Fuzes. These funds will provide for procurement of training, base defense, and WRM munitions and associated equipment.

The FY 1984 Program requested for authorization will continue procurement of munitions required to meet training and WRM requirements.

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The following table summarizes the program requirements for each of the major categories of munitions and associated equipment in the past, current, budget, and authorization year programs.

DIRECT PROGRAM REQUIREMENTS

	(In Thousands of Dollars)			
	1981	1982	1983	1984
1. Rockets and Launchers	$ 344	$ 1,744	$ 1,947	$ 1,142
2. Cartridges	157,483	480,740	234,300	339,900
3. Bombs	115,835	445,612	440,459	945,336
4. Targets	11,413	13,614	8,372	2,830
5. Other Items	46,521	93,579	122,877	128,329
6. Fuzes	12,793	42 115	37,684	105,836
7. Other Weapon	-	4,599	8,561	11,977
Total Direct Program Requirements	$ 344,389	$ 1,081,003	$ 854,200	$ 1,535,400

Major procurements planned in FY 1983 include:

Rockets and Launchers - Provides for procurement of practice rockets and miscellaneous rocket components to support training requirements.

Cartridges - Provides for procurement of 20MM training cartridges used in tactical aircraft guns, 30MM Training/High Explosive Incendiary (HEI) and Armor Piercing Incendiary (API) Cartridges used in the A-10 aircraft, MXU-4A/A Engine Starter cartridges and chaff cartridges.

Bombs - Provides for procurement of inflatable retarders and practice bombs as well as increased procurement of the CBU-90 (ACM), CBU-89 (TMD/Gator) and the Laser Bomb Guidance Kits.

Targets - Provides for procurement of aerial tow targets for air-to-air gunnery training.

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Other Items - Provides for procurement of a variety of flares, Spare and Repair Parts, and Modification.

Fuzes - Provides for procurement of the FMU-112/FMU-139 and FMU-81 impact or short delay fuzes for bombs using retarders, and the MK-339 Mechanical Time Fuze for cl.ster munitions.

Other Weapons - Provides for procurement of grenade launchers, M-60 machine guns, 40MM machine guns and 9MM pistols.

(In Thousands of Dollars)

Direct Program Requirement - FY 1984 -	$ 408,100
Direct Program Requirement - FY 1983 -	350,400
Direct Program Requirement - FY 1982 -	331,338
Direct Program Requirement - FY 1981 -	158,078

ACTIVITY: Vehicular Equipment

PART I - PURPOSE AND SCOPE

Provide for all classes and types of direct mission related vehicles to support operational readiness of the active and reserve forces, including the capability to sustain a wartime surge of forces for the length of the conflict. Examples of vehicle types are material handling equipment, refuelers, aircraft launch and recovery vehicles, and fire fighting equipment.

PART II - JUSTIFICATION OF FUNDS REQUESTED

Provides for the procurement of critical materiel handling equipment, the replacement of worn-out support vehicles, improvement of aircraft launch and recovery support, and replacement of overage and uneconomical vehicles in order to improve combat readiness.

The FY 1984 Program requested for authorization will continue procurement to replace worn-out vehicles and add new vehicles required to support and sustain a wartime surge of forces.

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The following table summarizes the program requirement for each of the major categories of equipment in the past, current, budget and authorization year programs.

DIRECT PROGRAM REQUIREMENTS

(In Thousands of Dollars)

	1981	1982	1983	1984
1. Passenger Carrying Vehicles	$ 6,713	$ 19,199	$ 28,658	$ 21,796
2. Cargo and Utility Vehicles	65,811	103,247	123,937	187,404
3. Special Purpose Vehicles	37,252	102,962	86,293	61,594
4. Firefighting Equipment	2,659	12,731	5,147	23,809
5. Materials Handling Equipment	20,899	54,054	45,429	54,991
6. Base Maintenance Support	24,744	39,145	60,936	58,506
Total Direct Program Requirements	$ 158,078	$ 331,338	$ 350,400	$ 408,100

Major procurement planned in FY 1983 include:

Passenger Carrying Vehicles - Provides for replacement of busses, ambulances, sedans and station wagons which are overaged, worn-out and require excessive costs to repair and maintain. While the FY 1983 program is $9.5 million greater than FY 1982, it represents only 8% of the entire vehicle program. The FY 1983 program will replace only those passenger carrying vehicles in the cost critical age and maintenance categories. Also, we are filling new authorizations necessitated by deployment of missile systems and medical contingency planning in Europe.

Cargo and Utility Vehicles - This category consists of key support vehicles required to transport air crews, distribute cargo and munitions, tow communications equipment, and expedite delivery of aircraft spare parts to the flightline. The $20.7 million increase from FY 1982 to FY 1983 is attributable mainly to commercial utility cargo vehicles, five ton cargo trucks M-923 and M-915, tractor trucks over five tons, and wrecker trucks due to the need to support tactical and readiness operations at forward and deployed locations.

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Special Purpose Vehicles - This category provides for procurement of aircraft tow tractors, flightline equipment tow tractors, telephone construction and maintenance vehicles, water and oil tank trucks, and DEW line support vehicles. The FY1983 request is $20.7 million less than the FY 1982 request due to reduced buys of the R-9 fuel tank trucks and aircraft tow tractors. Emphasis was placed on these buys in FY 1982 because the reliability of this equipment has a direct impact on readiness of the Air Force units worldwide.

Firefighting Equipment - Provides for procurement of equipment required for aircraft crash and rescue operations, and for structural fire protection of base property. The FY 1983 request is $7.6 million less than FY 1982 primarily due to no procurement of the P-4 crash truck, and reduced buys of the P-8 pumper truck, both of which required sizeable buys in FY 1982 because none had been procured in recent years, and the condition of those on hand dictated the need for replacement.

Materials Handling Equipment - Provides for procurement of 463L system forklifts and cargo loaders to support aerial port and munitions handling/loading operations. The FY 1983 request is $8.6 million less than FY 1982 due to the decrease in procurement of 10,000 lb forklift trucks and the 40K A/C loader. There was an increase in the procurement of 6,000 lb forklift trucks, but the overall category realized a net decrease.

Base Maintenance Support Equipment - Provides funding for construction and maintenance equipment required for airfield and grounds maintenance. The FY 1983 program is $21.8 million more than FY 1982 primarily due to increased procurement of scoop loader ($7.0M) runway/street cleaners ($2.3M), cranes ($4.2M), and initial procurement of truck mounted concrete mixer ($1.2M).

(In Thousands of Dollars)

Direct Program Requirements - FY 1984	$2,063,845
Direct Program Requirements - FY 1983	1,427,300
Direct Program Requirements - FY 1982	1,105,335
Direct Program Requirements - FY 1981	708,833

ACTIVITY: Electronics and Telecommunications Equipment

PART I - PURPOSE AND SCOPE

Provides ground electronic and telecommunications systems for command and control of the operational forces, the detection of hostile forces, and Air Force-wide communications.

PART II - JUSTIFICATION OF FUNDS REQUESTED

The funds requested will ensure the continued worldwide command and control of our strategic and tactical forces through procurement of prime mission electronics and telecommunications equipment, modification kits, peculiar test equipment, and essential spare and repair parts. Provision is also made for the supporting structure requirements, such as enroute and terminal navigational and landing guidance, intelligence, and security of Air Force activities, facilities and personnel. Also included are items such as communications and navigation radio equipment, land-line communications equipment, detection and surveillance radars, communications security devices, data processing and display equipment, meteorological equipment, peculiar test equipment used in the operation and maintenance of these systems, and the spares, repair parts, components, and modification kits needed for assurance of effective and continued operation.

The FY 1984 Program requested for authorization will continue procurement of Electronics and Telecommunications Equipment primarily for the same purposes as outlined for FY 1983.

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The following table summarizes the program requirements for each of the major categories of equipment in the past, current budget, and authorization year programs:

DIRECT PROGRAM REQUIREMENTS

(In Thousands of Dollars)

	1981	1982	1983	1984
1. Communications Security Equipment	$37,529	$92,737	$124,383	$99,024
2. Intelligence Programs	17,199	22,012	25,632	33,532
3. Electronics Programs	163,659	283,329	314,109	631,629
4. Special Comm-Electronics Projects	154,630	174,247	364,766	501,675
5. Air Force Communications	113,710	159,311	219,815	298,467
6. DCA Programs	25,982	14,529	25,524	131,598
7. Organization and Base	116,701	272,240	266,682	228,100
8. Modifications	79,423	86,930	86,390	139,820
Total Direct Program Requirements	$708,833	$1,105,335	$1,427,300	$2,063,845

Major procurements planned in FY 1983/1984 included:

Communications Security Equipment - This program is for the procurement and installation of devices for encryption and decryption of communications, to ensure security of voice, teletype and data communications. Included is equipment to secure data networks and tactical radios. The FY 1983 request is approximately $32 million more than the FY 1982 program because of increased FY 1983 requirements to support space systems and tactical voice programs. The FY 1984 decrease of $25 million is due to a decrease in space system requirements.

Intelligence Programs - This program provides the equipment for worldwide USAF collection, processing and reporting of intelligence information.

Electronics Programs - This activity includes electronic equipment to augment existing systems and to replace obsolete equipment. Included is equipment for the Defense Support Program, submarine launched ballistic missile detection (PAVE PAWS), and aircraft detection (Distant Early Warning Radar, Minimally Attended Radar System, OTH-B). The FY 1983 program increased by approximately $31 million to fund procurement of PAVE PAWS and the Distant Early Warning Radar. The FY 1984 increase of approximately $317M is due to the start of the OTH-B, and increased SACDIN procurement.

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Special Comm-Electronics Programs - This program procures electronic equipment to satisfy specific mission requirements. Included are Automatic Data Processing Equipment, Air Base Defense Systems, Range Improvements, and the Consolidated Space Operations Center (CSOC). The 1983 program increase of approximately $190 million over FY 1982 is attributable to the initiations of procurement in the Radar Bomb Scorer, C3 Countermeasures, and Base Level Data Automation programs. The FY 1984 increase of approximately $137 million is due to increased requirements in the Automatic Data Processing, Air Base Defense, and CSOC programs.

Air Force Communications - These programs are the primary Air Force Communications terminal equipments used to provide common user facilities. Included are satellite communication terminals, equipment used in communications centers, and interoperable tactical ground equipment. The FY 1983 program increase of approximately $60 million over FY 1982 is due to increased procurement of satellite communication terminals and in the Joint Tactical Communications program. The FY 1984 increase of approximately $79 million is due primarily to increased satellite communication requirements.

DCA Programs - These programs are in support of the Defense Communications System. Included is the Wideband Systems Upgrade and Minimum Essential Emergency Communications Net (MEECN). The FY 1983 program increase of approximately $11 million over the FY 1982 program is due to increased procurements in the Wideband Systems Upgrade program. The FY 1984 increase of $106 million is caused by the start of procurement for a groundwave relay communication system in the MEECN program.

Organization and Base - This program procures electronic equipment for individual Air Force units and bases. It includes TV equipment, mobility radios, and spares and repair parts. The FY 1983 program is essentially unchanged from the FY 1982 level. The FY 1984 decrease of approximately $38 million is an aggregate of small decreases in a number of programs such as radio equipment, TV equipment, and spares.

Modifications - This program is for the modification of existing electronic equipment to increase reliability, provide a new or increased capability or correct an operational deficiency. The FY 1983 program is funded at the FY 1982 level. Increases in the FY 1984 program of $53 million results from increases in mods for tactical equipment, SEEK TALK and for additional reliability modifications.

(In Thousands of Dollars)
Direct Program Requirements - FY 1984 - $4,314,900
Direct Program Requirements - FY 1983 - 3,213,300
Direct Program Requirements - FY 1982 - 2,889,227
Direct Program Requirements - FY 1981 - 1,916,778

ACTIVITY: Other Base Maintenance and Support Equipment

PART I - PURPOSE AND SCOPE

Provide ground support equipment, not otherwise provided with the major weapons systems, for operational forces and supporting structure. Included are test equipment, personal safety and rescue equipment, medical and dental equipment, and automated materials handling equipment for improving the efficiency of the Air Force supply and maintenance system, base maintenance equipment, electrical equipment, intelligence and reconnaissance equipment, and modifications all for the day to day support of the forces in being and minimum quality of life for Air Force personnel.

PART II - JUSTIFICATION OF FUNDS REQUESTED

The funds requested provide for: (1) test equipment for maintenance, calibration, repair and checkout of weapon systems, electronics equipment and communications apparatus; (2) personnel safety items to safeguard the lives of aircrews and other personnel; (3) equipment for repair and overhaul at maintenance shops, mechanization of materials handling systems at Air Force bases depots and passenger and cargo terminals; (4) electric power equipment and area lighting; (5) base support equipment, base level procurement of equipment with a unit cost of $3,000 or more for medical, food service, repair, and administrative activities; (6) special support projects

Air Force elements of the atomic energy surveillance program and industrial preparedness products to support production of equipment funded in this appropriation; and (7) modification kits required to assure effective and continuous operation of equipment. Requirements are computed considering world-wide authorizations and available assets, including reparables and those on order.

The FY 1984 Program requested for authorization will continue procurement of the various equipment in the FY 1983 Other Base Maintenance and Support Equipment program.

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The following table summarizes the program requirements for each of the major categories of equipment in the past, current, budget and authorization year program.

DIRECT PROGRAM REQUIREMENTS

	(In Thousands of Dollars)			
	1981	1982	1983	1984
1. Test Equipment	$ 34,436	$ 34,308	$ 52,807	$ 52,267
2. Personal Safety and Rescue Equipment	18,273	29,435	23,692	49,642
3. Depot Plant and Materials Handling Equipment	31,126	30,437	31,487	33,332
4. Electrical Equipment	8,495	13,810	25,659	24,676
5. Base Support Equipment	116,638	256,760	267,880	309,498
6. Special Support	1,733,810	2,524,477	2,811,775	3,845,485
Total Direct Program Requirements	$ 1,936,778	$ 2,889,227	$ 3,213,300	$ 4,314,900

Major procurements planned in FY 1983 include:

Test Equipment - Provides calibration standards for Precision Measurement Equipment Laboratories and the Air Force Meterology Center; oscilloscopes, signal generators, electronic counters, noise level and display meters, and other test equipment costing less than $900,000 each. The $18.5 million increase in FY 1983 over FY 1982 is attributable to increased procurements of a wide variety of test equipment to replace overaged and unreliable equipment which is very costly to mairtain and, in some cases, is no longer manufactured.

Personal Safety and Rescue Equipment - Provides chemical/biological defense protection equipment and night vision goggles. The $5.7 million decrease from FY 1982 is due primarily to a reduction in procurement of chemical/biological equipment and night vision goggles.

Depot Plant and Materials Handling Equipment - Includes Base Mechanization Equipment (BME) for five Air Logistic Centers and various air bases; Air Terminal Mechanization equipment for one overseas and three CONUS air freight terminals; and other maintenance and repair shop equipment costing less than $900,000 each. The net increase of $1.0 million in FY 1983 over FY 1982 is due to an increase in Base Mechanization Equipment and a decrease in Items Less Than $900,000 category.

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Electrical Equipment - Provides generators and other electrical items costing less than $900,000 each. The $11.8 million increase in FY 1983 over FY 1982 results from a doubling of the procurement of mobile generators (200 KW, 100 KW and 60 KW). These generators provide primary and/or utility power to alert hangers, communications systems, radar systems, aircraft maintenance shops, control towers and runway lighting. Some of the generators are war readiness items. There is also a substantial increase in Items Less Than $900,000. This category provides equipment such as floodlight sets, power converters and smaller generators.

Base Support Equipment - Provides local purchase investment equipment with a unit cost of $3,000 or more and centrally procured equipment such as aircraft arresting barriers, cargo pallets, photographic equipment and spares and repair parts. The $11.1 million from FY 1982 increase is primarily attributable to an increase in Tactical Shelters, required for combat communications and Tactical Air Control Units to maintain sophisticated communications-electronics equipment in the field, and fuel bladders and mobility containers for war reserve stocks.

Special Support Projects - Includes intelligence equipment and systems, industrial preparedness, and equipment modifications. An increase of $581.7 million for Selected Activities and a decrease of $315.2 million in the Special Update Program along with increases and decreases in various program lines account for the $324.1 million increase over FY 1982.

1982 PROGRAM

COMPARISON OF REQUIREMENTS AS SHOWN
IN FY 1982 BUDGET WITH REQUIREMENT AS
SHOWN IN FY 1983 BUDGET

SUMMARY OF REQUIREMENTS

(In Thousands of Dollars)

	Program Requirements 1982 Budget	Program Requirements 1983 Budget	Increases (+) or Decreases (-)
Munitions and Associated Equipment	$ 1,112,659	$ 1,081,003	-31,656
Vehicular Equipment	336,402	331,338	-5,064
Electronics and Telecommunications Equipment	1,121,561	1,105,335	-16,226
Other Base Maintenance and Support Equipment	2,603,552	2,889,227	+285,705
Reimbursable Program	174,074	231,000	+56,926
Total	$5,348,248	$5,637,903	+289,685

EXPLANATION BY BUDGET ACTIVITY

1. Munitions and Associated Equipment ($-31.7 million). Congress cut the President's FY 1982 Amended budget by $21.3 million: .38 Caliber (-1.9M), 30MM API (-10.0M) and the FMU-112 (-9.4M). $7.1M was reprogramed to Other Base Maintenance and Support Equipment on a DD 1415. A reduction of $3.3M is a partial offset for Congressional general reductions for FDT, Army Guard and Reserve Equipment Transfer and Audiovisual Equipment.

2. Vehicular Equipment ($-5.1 million). Congress cut the President's FY 1982 Amended Budget by $1.1 million: 25K A/C Loader (-1.1M), $2.2M was reprogramed to Other Base Maintenance and Support Equipment on a DD 1415. A reduction of $1.9M is a partial offset for Congressional general reduction in FDT, Army Guard and Reserve Equipment Transfer and Audiovisual Equipment.

3. Electronics and Telecommunications Equipment ($-16.2 million). Congress cut the President's FY 1982 Amended Budget for SACDIN ($2.5M); $7.2M was reprogramed to Other Base Maintenance and Support Equipment on a DD 1415; and a reduction of $6.6M for Congressional general reductions in FDT, Army Guard and Reserve Equipment Transfer and Audiovisual Equipment.

4. Other Base Maintenance and Support Equipment ($+285.7 million). Congress increased the President's FY 1982 Amended Budget by $229.8: Base Mechanization (-5.0M); Items Less Than $900,000 (-3.0M); Selected Activities (-12.2M) and Special Update Program (+250.0M). $16.5M were reprogramed from the other three Budget Activities as outlined above to Other Base Maintenance and Support Equipment. $1.0M is a partial offset for Congressional general reductions in FDT, Army Guard and Reserve Equipment Transfer and Audiovisual Equipment. $40.4M is requested in the FY 1982 Supplemental Budget for Selected Activities.

5. Reimbursable Program ($+56.9 million) The increase of $56.9M is due to a revised estimate of customer orders in FY 1982.

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COMPARISON OF FY 1982 FINANCING AS REFLECTED IN FY 1982 BUDGET WITH FY 1982 FINANCING AS SHOWN IN FY 1983 BUDGET

(In Thousands of Dollars)

	Financing Per FY 1982 Amended Budget	Financing Per FY 1983 Budget	Increase (+) or Decrease (-)
Program Requirements	5,348,218	5,637,903 a/	289,685
Program Requirements (Service Account)	5,174,144	5,406,903	+232,759
Program Requirements (Reimbursable)	174,074	231,000	+56,926
Less:			
Anticipated Reimbursements	174,074	231,000	+56,926
Reappropriation		800	+800
Appropriation	5,174,144	5,406,103 a/	231,959

a/ Includes proposed supplemental of $40,470 thousand

EXPLANATION OF CHANGES IN FINANCING

The Fiscal Year 1982 program has been increased $289,685 thousand since submission of the FY 1982 budget.

1. Anticipated Reimbursements. The increase of $56,926 is due to a revised estimate of customer orders in FY 1982.

2. Reappropriation. Reappropriation of $800 thousand from FY 1981 to FY 1982 reflects a Congressional financing adjustment.

1981 PROGRAM

COMPARISON OF REQUIREMENTS AS SHOWN
IN FY 1982 BUDGET WITH REQUIREMENT AS
SHOWN IN FY 1983 BUDGET

SUMMARY OF REQUIREMENT

(In Thousands of Dollars)

	Program Requirements 1982 Budget	Program Requirements 1983 Budget	Increases (+) or Decreases (-)
Munitions and Associated Equipment	$ 344,389	$ 344,389	N/C
Vehicular Equipment	158,078	158,078	N/C
Electronics and Telecommunications Equipment	711,433	708,833	-2,600
Other Base Maintenance and Support Equipment	1,935,678	1,936,778	+1,100
Reimbursable Program	193,774	174,547	-19,227
Total	$3,343,352	$3,322,625	-20,727

EXPLANATION BY BUDGET ACTIVITY

1. Munitions and Associated Equipment. Various internal program adjustments have been made with no net change in the total Munitions program.

2. Vehicular Equipment. Various internal program adjustments have been made with no net change in the total Vehicular program.

3. Electronics and Telecommunications Equipment ($-2.6 million). $2.6 million was reprogramed below threshold to Other Base Maintenance and Support Equipment.

4. Other Base Maintenance and Support Equipment ($+1.1 million). $2.6 million was reprogramed below threshold from Electronics and Telecommunications Equipment; $.7 million was reprogramed on a DD 1415 to the RDT&E appropriation; and $.8 million was transferred by Congress from FY 1981 to FY 1982 within the Other Procurement appropriation.

5. Reimbursable Program ($-19.2 million). The decrease of $19.2 million is due to receipt of actual customer orders in FY 1981.

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COMPARISON OF FY 1981 FINANCING AS REFLECTED IN FY 1982 BUDGET WITH FY 1981 FINANCING AS SHOWN IN FY 1983 BUDGET

(In Thousands of Dollars)

	Financing Per FY 1982 Amended Budget	Financing Per FY 1983 Budget	Increase (+) or Decrease (-)
Program Requirements	3,343,352	3,322,625	-20,727
Program Requirements (Service Account)	3,149,578	3,148,078	-1,500
Program Requirements (Reimbursable)	193,774	174,547	-19,227
Less:			
Anticipated Reimbursements	193,774	174,547	-19,227
Add:			
Transferred to Other Accounts	-	700	+700
Unobligated Balance Available to Finance Subsequent Year Budget Plans	-	800	+800
Appropriation	3,149,578	3,149,578	

EXPLANATION OF CHANGES IN FINANCING

The Fiscal Year 1981 Program has been decreased $20,727 since submission of the FY 1982 budget. Adjustment by category of financing are explained below:

1. Anticipated Reimbursement. The decrease of $19,227 thousand is due to receipt of actual customer orders in FY 19

2. Transferred to Other Accounts. $700 thousand was transferred to RDT&E, AF FY 1981 in accordance with Section 734 of PL 96-527.

3. Unobligated Balance Available to Finance Subsequent Budget Plans. $800 thousand is to remain unobligated to provide funding for a Congressionally directed reappropriation to FY 1982.

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ANALYSIS OF UNOBLIGATED BALANCES - 30 SEPTEMBER 1983
SUMMARY BY CATEGORY
(In Millions of Dollars)

	FY 1982	FY 1983	Total	% of Total Unobligated
1. Military Interdepartmental Purchase Requests: (MIPRs)	$ 84.7	$226.3	$311.0	15.3%
2. Completing Contractual Arrangements:				
a. Specification Definitions	93.4	250.1	343.5	16.9%
b. Price Redeterminations	42.7	117.9	160.6	7.9%
c. Definitization of Contracts	88.5	236.7	325.2	16.0%
3. Full Funding Policy:				
a. Delayed/Revised Program Release	185.4	495.6	681.0	33.5%
b. Engineering Changes	57.6	153.8	211.4	10.4%
TOTAL UNOBLIGATED BY 1983	$552.3	$1480.4	$2032.7	

EXPLANATION

Procurement funds are available for ligation for three years because of the extensive lead time required to develop detailed specification, issue Requests for Proposals (RFPs) and to negotiate and finalize contracts for procurement of investment equipment. Unobligated balances are required for programmed and needed items on which contracts have not reached the obligational stage by the end of the fiscal year because of the procurement process.

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The following are illustrative of the reasons which will cuase unobligated balances at the end of each fiscal year:

1. Military Interdepartmental Purchase Requests (MIPRs) ($311.0 million) - These documents are used to request one of the other military services to procure Air Force requirements in conjunction with their own or with those of another service. Funds to support these requests remain unobligated until notification of contract award is received from the other military service. Frequently, contractual arrangements will have been completed and the obligation incurred but notification from the other service is not received in time for recording in Air Force records prior to or at the end of a fiscal year.

2. Completing Contractual Arrangements:

a. Specification Definitions ($343.5 million) - Unobligated funds result when specifications for newly introduced items cannot be definitized in time to permit contract negotiation prior to or at the end of the fiscal year.

b. Price Redeterminations ($160.6 million) - Prices are redetermined at intervals throughout the life of a contract. Final obligation for contracts must await negotiations on agreed target-ceiling formulae. In most large contracts, the rewards and penalties of multiple incentives (cost, performance and schedule) cannot be determined and obligated prior to the end of the fiscal year. Funds are reserved for these purposes when upward adjustments seem likely; however, obligation does not occur until a formal redetermination has been agreed upon and the contract amended. Unobligated funds at year end result

c. Definitization of Contracts ($325.2 million) - Procurements of complex systems and large material orders may occasionally be initiated under letter contracts. The letter contract generates a partial obligation of the total program value with the balance remaining committed but unobligated pending definitization and negotiation of the detailed contract terms. These actions can carry over the end of a fiscal year and result in unobligated funds.

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3. Full Funding Policy - This policy, enunciated in DoD Directive 7200.4 (October 30, 1969) provides that adequate appropriations and funds must be available in a given fiscal year for obligation, committed or set aside in a reserve account in an aggregate amount sufficient to complete the procurement of a specified number of end items and advance procurement for approved programs. Unobligated balances at the end of a fiscal year are a consequence of this policy and accrue in the following categories:

a. Delayed/Revised Program Release ($681.0 million) - Adjustments in quantities or specifications of other equipment to meet changing situations or to exploit engineering improvements generally require prior approval of reprogramming requests which can delay program release and direction until well into the fiscal year, thus delaying the obligation of funds by the end of the fiscal year. Also, approved and funded programs are sometimes delayed/undirected beyond 30 September pending decision on an aspect of the program that has arisen requiring resolution before proceeding.

b. Engineering Changes ($211.4 million) - Based on prior experience with systems of like nature and complexities, provision is made in procurement programs, as a percentage of the estimated cost of the item, to cover engineering improvements and design changes which will occur as a result of manufacturing experience or Air Force requirements. Engineering changes are not definitive requirements known in advance and they cannot be obligated until the change is authorized and directed. These changes occur throughout the life of the production contract and result in unobligated balances.

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OTHER PROCUREMENT, AIR FORCE

MUNITIONS DATA SHEET

P-1 Line Item: 8, 9, 10

Nomenclature: 30 MM Training/30 MM HEI/30 MM API Cartridges

Mission/Description: The 30 MM Cartridge used with the GAU-8 Gun System is designed to be effective against a broad spectrum of Close Air Support (CAS) targets. The GAU-8 is specifically designed to defeat Soviet medium/heavy tanks, which are critical CAS targets in a European conflict. The gun is effective against softer CAS targets, such as personnel, armored personnel carriers, and trucks. The GAU-8 gun fire can be placed closer to friendly troops than other weapons due to its accuracy, small lethal radius, and low probability of gross error. This contributes to the effectiveness of the A-10 aircraft for which it was designed.

Cost Data (In Millions of Dollars)

	FY 1981		FY 1982		FY 1983		FY 1984	
	Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
Training	5,077	54.2	7,088	83.3	6,675	84.9	8,467	110.8
High Explosive Incendiary(HEI)	500	8.4	2,704	53.9	1,239	24.4	1,350	28.1
Armour Piercing Incendiary (API)	3,100	63.6	9,235	215.5	2,600	65.6	2,866	76.9

Basis for FY 1983/FY 1984 Request: The request is required to support projected peacetime consumption during the FY 1983 and FY 1984 funded delivery period, maintain pipeline/stocklevels, and procure an increment of the WRM inventory objective.

NOTE: Quantities in Thousands

OTHER PROCUREMENT, AIR FORCE

MUNITIONS DATA SHEET

P-1 Line Item: 11

Nomenclature: 40 MM HEI (Gunship)

Mission/Description: The 40MM high explosive incendiary round is the improved cartridge utilizing a standard MK 2 projectile with an incendiary liner. The 40MM cartridge is used on AC-130 aircraft. This projectile is designed to produce sufficient incendiary effect to ignite diesel fuel in the vehicle fuel tanks.

Cost Data

(In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
41	.3	243	2.0	243	7.1	243	7.5

Basis for FY 1983/FY 1984 Request: This request is required to support projected peacetime consumption during the FY 1983 and FY 1984 funded delivery period, maintain pipeline/stocklevels, and procure an increment of the inventory objective.

NOTE: Quantities in Thousands

OTHER PROCUREMENT, AIR FORCE

MUNITIONS DATA SHEET

P-1 Line Item: 13

Nomenclature: 40 MM TP Grenades

Mission/Description: The 40 MM TP cartridge is used for training USAF personnel who are required to be qualified with grenade launchers.

Cost Data

(In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
186	.5	605	1.7	987	8.1	667	2.0

Basis for FY 1983/FY 1984 Request: This request is required to support projected peacetime consumption during the FY 1983 and FY 1984 funded delivery period.

NOTE: Quantities in Thousands

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OTHER PROCUREMENT, AIR FORCE

MUNITIONS DATA SHEET

P-1 Line Item: 15

Nomenclature: Chaff RR-170 Cartridge

Mission/Description: The cartridge is used to expel chaff as an electronic countermeasure against radar controlled threats. The chaff is ejected from an AN/ALE-40 dispenser on the A-7, A-10 and F-4 aircraft.

Cost Data (In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
-	-	3,920	8.2	2,192	4.7	2,192	5.0

Basis for FY 1983/FY 1984 Request: Required to support projected peacetime consumption during the FY 1983 and FY 1984 funded delivery period and procure an increment of the War Reserve Materiel (WRM) inventory objective.

Note: Quantities in thousands

OTHER PROCUREMENT, AIR FORCE

MUNITIONS DATA SHEET

P-1 Line Item: 16

Nomenclature: Cartridge Chaff, RR-136

Mission/Description: The RR-136 Chaff Cartridge is used to expel chaff as an electronic counter-measure against radar controlled threats. The Chaff is designed for use from the photoflash dispensing system on the aircraft. RR-136 provides protection for the RF-4C aircraft.

Cost Data

(In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
-	-	155	2.9	200	4.2	200	4.2

Basis for FY 1983/FY 1984 Request: This request is required to support projcted peacetime consumption during the FY 1983 and FY 1984 funded delivery period, and procure an increment of the War Reserve Material inventory objective.

NOTE: Quantities in Thousands

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OTHER PROCUREMENT, AIR FORCE

MUNITIONS DATA SHEET

P-1 Line Item: 17

Nomenclature: Signal MK-4 Mod 3

Mission/Description: The MK-4 Mod 3 signal cartridge is used with the BDU-33 and MK-106 practice bombs for observation and scoring purposes. The signal cartridge has aluminum case and is similar to a 10 gauge shotgun shell. It contains an expelling charge of smokeless power and a commercial shotgun shell primer. A pyrotechnic marker load of stabilized red phosphorous provides the visible indication for bomb scoring.

Cost Data (In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
1,460	2.0	1,715	2.9	1,548	2.7	1,999	3.6

Basis for FY 1983/FY 1984 Request: To support peacetime requirements during the FY 1983 and FY 1984 funded delivery period.

NOTE: Quantities in Thousands

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OTHER PROCUREMENT, AIR FORCE

MUNITIONS DATA SHEET

P-1 Line Item: 19

Nomenclature: MXU-4A/A Engine Starter

Mission/Description: The MXU-4A/A engine starter is installed in aircraft starter assemblies to start turbojet engines on B-52, KC-135, F-111, F-4, F-105 and F-106 aircraft.

Cost Data (In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
35	3.8	90	10.9	80	10.4	70	9.6

Basis for FY 1983/FY 1984 Request: To support peacetime requirements during the FY 1983 and FY 1984 funded delivery period without drawing down War Reserve Materiel (WRM) stock levels.

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OTHER PROCUREMENT, AIR FORCE

MUNITIONS DATA SHEET

P-1 Line Item: 20

Nomenclature: Cartridge, Impulse CCU-44/B

Mission/Description: This cartridge replaces the ARD-862-1 impulse cartridge. It is used on the A-7, A-10, B-52, F-15 and F-16 to jetison aircraft external stores such as bombs and rockets.

Cost Data

(In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
821	2.5	3,065	10.5	1,707	6.1	1,999	7.5

Basis for FY 1983/FY 1984 Request: To support projected peacetime consumption during the FY 1983 and FY 1984 funded delivery period, maintain pipeline/stock levels, and procure an increment of the War Reserve Materiel (WRM) inventory objective.

Note: Quantities in thousands

OTHER PROCUREMENT, AIR FORCE

MUNITIONS DATA SHEET

P-1 Line Item: 21

Nomenclature: Cartridge, Impulse, CCU-43/B

Mission/Description: The CCU-43/B impulse cartridge replaces the ARD 446-1 impulse cartridge. It is used to jettison aircraft external stores such as bombs and rockets and can be used on numerous aircraft including the A-7, A-10, B-52, F-4, F-15 and F-16. The CCU-43 differs from the CCU-44 by a higher explosive charge, 12 grams versus 4 grams, respectively. As a result, the CCU-43 generates a theoretical energy of 10,000 ft/lbs while the CCU-44 generates approximately 3,000 ft/lbs. Each cartridge is designed to insure safe separation of specific stores from specific aircraft by individual station.

Cost Data (In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
139	.8	218	1.1	954	3.9	335	1.7

Basis for FY 1983/FY 1984 Request: This request is required to support projected peacetime consumption during the FY 1983 and FY 1984 funded delivery period, and the outyears.

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OTHER PROCUREMENT, AIR FORCE

MUNITIONS DATA SHEET

P-1 Line Item: 23

Nomenclature: MK-82 Bomb, Empty

Mission/Description: This is a 500 pound general purpose bomb filled with concrete, vermiculite or sand to simulate the drop trajectory of a high explosive bomb. It is used for aircrew proficiency training in lieu of using the high explosive bombs.

Cost Data (In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
80,000	29.5	77,394	31.8	77,394	32.2	91,844	40.2

Basis for FY 1983/FY 1984 Request: The request is required to support projected peacetime consumption during the FY 1983 and FY 1984 funded delivery period and maintain a pipeline/stock level.

OTHER PROCUREMENT, AIR FORCE

MUNITIONS DATA SHEET

P-1 Line Item: 24

Nomenclature: Airfield Attack Weapon

Mission/Description: The airfield attack weapon is a 440 pound parachute-retarded, rocket-booster penetration bomb uniquely designed for attack of actual or potential takeoff and landing surfaces of airfield complexes. The French developed MATRA Durandal bomb has been adapted for delivery by the F-4 and F-111 aircraft.

Cost Data (In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
-	-	-	-	350	9.2	840	23.3

Basis for FY 1983/FY 1984 Request: This request is an increment of the projected requirement necessary to obtain the WRM inventory objective.

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OTHER PROCUREMENT, AIR FORCE

MUNITIONS DATA SHEET

P-1 Line Item: 25

Nomenclature: BSU-49 Inflatable Retarder

Mission/Description: The BSU-49 Inflatable Retarder provides the USAF with the capability for low-level delivery of MK-82 500 pound general purpose bombs. The pilot has the option of either high or low drag release. It consists of two major assemblies; a low drag stabilizer and a ram-air inflated retardation device which is stored in the stabilizer when not deployed.

Cost Data

(In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
6,620	8.0	77,108	55.4	80,952	52.2	93,416	65.4

Basis for FY 1983/FY 1984 Request: The FY 1983 and FY 1984 requests support the projected peacetime consumption and provide for an increment of War Reserve Materiel (WRM) stocks.

OTHER PROCUREMENT, AIR FORCE

MUNITIONS DATA SHEET

P-1 Line Item: 26

Nomenclature: BSU-50 Inflatable Retarder

Mission/Description: An inflatable retarder for the MK-84 bomb employed in either high or low drag modes, at the pilot's option. The two main assemblies are the high drag retarder and low drag stabilizer. The stabilizer is based on a conventional cruciform finned structure. The retarder is a ram-air inflated enclosed vehicle made of nylon fabric and webbing construction which will be stored within the stabilizer.

Cost Data

(In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
281	2.2	7,232	13.5	7,300	12.2	7,300	12.9

Basis for FY 1983/FY 1984 Request: The FY 1983 and FY 1984 program will procure an increment of the War Reserve Materiel (WRM) inventory objective.

OTHEP PROCUREMENT, AIR FORCE

MUNITIONS DATA SHEET

P-1 Line Item: 28

Nomenclature: Laser Bomb Guidance Kit

Mission/Description: The laser bomb guidance kit consists of a field installed computer control group and an airfoil group for MK-82, MK-83 or MK-84 bomb. The control group uses a silicon seeker head which detects laser energy reflected from a target being illuminated by either a ground or an airborne laser target designator, and directs the laser guided bomb on a line-of-sight trajectory to the target.

Cost Data (In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
4,300	31.7	12,274	126.6	10,000	176.4	12,859	243.5

Basis for FY 1983/FY 1984 Request: Required to support projected peacetime consumption during the FY 1983 and FY 1984 funded delivery period, maintain pipeline/stock levels, and procure an increment of the War Reserve Materiel (WRM) inventory objective.

OTHER PROCUREMENT, AIR FORCE

MUNITIONS DATA SHEET

P-1 Line Item: 29

Nomenclature: GBU-15

Mission/Description: The GBU-15 Modular Guided Weapon System is a family of guidance, control, and airframe modules which, when combined with a warhead, can be configured as different weapons tailored for various attack and target conditions. The Cruciform Wing Weapon (CWW) is optimized for low angle attack. The data link permits the launch crew to monitor progress of the weapon to the target and to update the impact point, if necessary.

Cost Data

(In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
65	20.2	340	67.7	250	47.3	425	100.9

Basis for FY 1983/FY 1984 Request: The FY 1983 and FY 1984 programs will procure an increment of the War Reserve Materiel (WRM) inventory objective.

OTHER PROCUREMENT, AIR FORCE

MUNITIONS DATA SHEET

P-1 Line Item: 30

Nomenclature: Bomb, Practice, BDU-33

Mission/Description: The 25-pound practice bomb has a teardrop shaped metal body with a tube cavity lengthwise through the center, a conical afterbody, and a cruciform type fin in the aft end of the bomb body. A firing pin, inertia tube, flag assembly and cotter pin are separate components of the bomb body. This bomb is used to provide the Tactical Air Force with aircrew weapons delivery training.

Cost Data (In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
1,266	18.9	1,561	25.0	1,568	29.4	1,614	31.8

Basis for FY 1983/FY 1984-Request:

The request is required to support projected peacetime consumption during the FY 1983 and FY 1984 funded delivery period, and maintain pipeline/stock levels.

NOTE: Quantities in Thousands

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OTHER PROCUREMENT, AIR FORCE

MUNITIONS DATA SHEET

P-1 Line Item: 32

Nomenclature: Bomb, Practice, MK-106

Mission/Description: The MK 106 is a five pound, expendable, vane retarded, miniature practice bomb. It is used in developing and maintaining combat proficiency in delivery of nuclear weapons by TAC, USAFE, PACAF, AFSC and ANG. The MK-106 is used in conjunction with the SUU-20 and SUU-21 bomb dispensers. Each bomb requires a spotting charge (MK 4 Mod 3 or a CXU-3).

Cost Data (In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
-	-	243	2.5	299	3.4	335	4.6

Basis for FY 1983/FY 1984 Request: This request is required to support projected peacetime consumption during the FY 1983 and FY 1984 funded delivery period and to maintain pipeling/stock levels.

NOTE: Quantities in Thousands

OTHER PROCUREMENT, AIR FORCE

MUNITIONS DATA SHEET

P-1 Line Item: 33

Nomenclature: MK-84, Bomb, Empty

Mission/Description: This item is the MK 84, 2000 pound, general purpose bomb less the explosive fill (945 pounds). It is filled with concrete, vermienlite or sand to simulate the drop trajectory of a filled bomb. It is used for aircrew training and proficiency.

Cost Data (In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
398	.1	1,640	1.7	2,500	2.9	2,500	3.1

Basis for FY 1983/FY 1984 Request: This request is an increment of the projected requirement to support peacetime and training requirements.

(33)

OTHER PROCUREMENT, AIR FORCE

MUNITIONS DATA SHEET

P-1 Line Item: 34

Nomenclature: CBU-89 (TMD/Gator)

Mission/Description: The TMD/GATOR weapon (CBU-89/B) is an air delivered anti-armor/anti-vehicular (AT) mine system. The GATOR mine system is a part of a Joint Service Anti-Armor Development program, family of scatterable mines (FASCAM). The individual mines have been developed by the US Army and in a modified form are also used in other delivery systems.

Cost Data

(In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
-	-	-	14.0	250	20.5	2,000	94.7

Basis for FY 1983/FY 1984 Request: This request is an increment of the projected requirement necessary to obtain the WRM inventory objective.

(314)

OTHER PROCUREMENT, AIR FORCE

MUNITIONS DATA SHEET

P-1 Line Item: 36

Nomenclature: CBU-90 (ACM)

Mission/Description: The anti-armor cluster munition designated CBU-90/B is an air delivered anti-tank munition designed to provide a multi-target per pass kill capability for tactical fighter and attack aircraft. The CBU-90/B contains 48 BLU-99/B submunitions in a SUU-65/B tactical munitions dispenser.

Cost Data (In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
-	-	-	16.0	2,000	54.4	7,200	164.0

Basis for FY 1983/FY 1984 Request: This request is an increment of the projected requirement necessary to obtain the WRM inventory objective.

OTHER PROCUREMENT, AIR FORCE

MUNITIONS DATA SHEET

P-1 Line Item: 39

Nomenclature: Aerial Tow Target

Mission/Description: The Aerial Tow Target System is a towed aerial target for use by tactical fighter and interceptor aircrews in developing and maintaining air-to-air gunnery skills. The system will also be used in operational testing and evaluation of guns, gunsights, ammunition, and tactics development.

Cost Data (In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
1,015	11.0	1,300	13.0	980	7.5	200	2.0

Basis for FY 1983/FY 1984 Request: Procurement is required to support projected peacetime consumption during the FY 1983 and FY 1984 funded delivery period and maintain pipeline/stock levels.

378

OTHER PROCUREMENT, AIR FORCE

MUNITIONS DATA SHEET

P-1 Line Item: 41

Nomenclature: Flare, IR RR-119

Mission/Description: The RR-119 Infrared Flare is used to decoy against heat seeking missile threats. Flares are expelled from the AN/ALE-28 dispenser on the F-111 and FB-111 aircraft.

Cost Data

(In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
14,586	2.5	41,100	5.1	50,000	6.2	50,000	6.5

Basis for FY 1983/FY 1984 Request: This request is required to support projected peacetime consumption during the FY 1983 and FY 1984 funded delivery period, maintain pipeline/stock levels, and procure an increment of the inventory objective.

(34)

OTHER PROCUREMENT, AIR FORCE

MUNITIONS DATA SHEET

P-1 Line Item: 42

Nomenclature: Flare, IR, MJU-7B

Mission/Description: The MJU-7B is an infra-red countermeasures flare used by the F-4 aircraft to counter heat seeking missiles. It is dispensed from the AN/ALE-40(V).

Cost Data

(In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
88	3.9	216	9.5	211	9.3	211	9.7

Basis for FY 1983/FY 1984 Request: Procurement is required to support projected peacetime consumption during the FY 1983 and FY 1984 funded delivery period, maintain pipeline/stock levels, and procure an increment of the War Reserve Materiel (WRM) inventory objective.

Note: Quantities in thousands

OTHER PROCUREMENT, AIR FORCE

MUNITIONS DATA SHEET

P-1 Line Item: 44

Nomenclature: Flare, IR MJU-2

Mission/Description: This item is an infrared flare which contains a pyrotechnic grain that produces an infrared heat output intended to protect the RF-4C aircraft against heat seeking missiles. This flare is designed for use from the photoflash dispensing system on the aircraft. Current flare provides protection of the RF-4C when engines are at military power or less.

Cost Data

(In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
56	3.3	75	4.6	84	5.1	125	8.0

Basis for FY 1983/FY 1984 Request: This request is an increment of the requirement necessary to obtain the WRM inventory objective.

NOTE: Quantities in Thousands

OTHER PROCUREMENT, AIR FORCE

MUNITIONS DATA SHEET

P-1 Line Item: 45

Nomenclature: MJU-10B

Mission/Description: This item is an infrared countermeasures flare used by th F-15 aircraft against heat seeking missiles. It is dispensed from the AN/ALE-45.

Cost Data

(In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
-	-	20	2.7	90	9.5	100	11.1

Basis for FY 1983/FY 1984 Request: This request is an increment of the projected requirement necessary to obtain the WRM inventory objective.

NOTE: Quantities in Thousands

OTHER PROCUREMENT, AIR FORCE

MUNITIONS DATA SHEET

P-1 Line Item: 46

Nomenclature: M-206 Cartridge Flare

Mission/Description: The flare is designed for the AN/ALE-40(V) countermeasures dispenser system. It will provide self-protection against heat seeking homing threats for the HH-3, A-7 and A-10 aircraft.

Cost Data (In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
1,000	14.3	2,084	26.6	3,000	52.5	3,000	55.1

Basis for FY 1983/FY 1984 Request: The request is required to support projected peacetime consumption during the FY 1983 and FY 1984 funded delivery period, maintain pipeline/stock levels, and procure an increment of the War Reserve Materiel (WRM) inventory objective.

Note: Quantities in thousands

OTHER PROCUREMENT, AIR FORCE

MUNITIONS DATA SHEET

P-1 Line Item: 48

Nomenclature: B-83 Trainer

Mission/Description: This is a strategic gravity bomb, produced by Department of Energy for use in nuclear training. Various configurations are used in training for explosive ordnance disposal, maintenance, loading and handling personnel. The training is essential for developing and maintaining proficiency.

Cost Data (In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
15	2.9	52	3.4	46	2.8	-	-

Basis for FY 1983/FY 1984 Request: The inventory objective is 113 of which all will be on hand at the end of the FY 1983 and FY 1984 funded delivery period.

322

OTHER PROCUREMENT, AIR FORCE

MUNITIONS DATA SHEET

P-1 Line Item: 50

Nomenclature: MC-3468, Retardation Device

Mission/Description: The MC-3468 retardation device is an integral part of the B-83 nuclear bomb. It is a power deployed single stage with no pilot parachute. The single parachute is a continuous nylon ribbon canopy 41 feet in diameter. The webbing is made of a lightweight synthetic. It is pressure packed in an elongated cylindrical configuration.

Cost Data (In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
44	.9	55	1.2	157	3.9	143	4.9

Basis for FY 1983/FY 1984 Request: This request is an increment of the projected requirement necessary to obtain the WRM inventory objective.

OTHER PROCUREMENT, AIR FORCE

MUNITIONS DATA SHEET

P-1 Line Item: 51

Nomenclature: Chaff Package, RR-141 A/L

Mission/Description: The RR-141 chaff package is used on the F/FB-111 for defense against enemy radar. A one-half inch aluminum coated strip chaff is contained in the package which operates against radar frequencies of 2GHZ to 16GHZ.

Cost Data (In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
-	-	164	4.1	117	3.0	117	3.2

Basis for FY 1983/FY 1984 Request: This request is required to support projected peacetime consumption during the FY 1983 and FY 1984 funded delivery period, maintain pipe/line stock levels, and procure an increment of the inventory objective.

NOTE: Quantities in Thousands

OTHER PROCUREMENT, AIR FORCE

MUNITIONS DATA SHEET

P-1 Line Item: 55

Nomenclature: FMU-81

Mission/Description: The FMU-81 is an impact short delay bomb fuze designed for use in nose and tail fuze wells of guided or unguided low-drag general purpose bombs. The fuze is cylindrically shaped, approximately 11 inches long, and weights 9 pounds. FMU-81 will be used with laser guided bombs already in the inventory.

Cost Data (In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
12	7.1	12	8.5	20	14.7	-	-

Basis for FY 1983/FY 1984 Request: This request is required to support projected peacetime consumption during the FY 1983 and FY 1984 funded delivery period, maintain pipe/line stock levels, and procure an increment of the inventory objective.

NOTE: Quantities in Thousands

OTHER PROCUREMENT, AIR FORCE

MUNITIONS DATA SHEET

P-1 Line Item: 55

Nomenclature: FMU-112/FMU-139

Mission/Description: This is an electronic impact or short delay fuze designed to fit the standard 3-inch fuze well on bombs such as the M-117 and the MK-80 series guided or unguided bombs. It is usable on both high and low speed aircraft.

Cost Data (In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
-	-	-	-	10	8.3	100	90.4

Basis for FY 1983/FY 1984 Request: Procurement is required to support projected peacetime consumption during the FY 1983 and FY 1984 funded delivery period, and procure an increment of the War Reserve Materiel (WRM) inventory objective.

NOTE: Quantities in Thousands

OTHER PROCUREMENT, AIR FORCE

MUNITIONS DATA SHEET

P-1 Line Item: 57

Nomenclature: FMU-113/B

Mission/Description: The FMU-113/B fuze is a low altitude radar-proximity fuze designed for use with high-explosive munitions. The fuze fits into a standard 3-inch fuze well with the antenna and associated electronics extending approximately 6-inches in front of the bomb. It uses a noise-modulated continuous wave doppler radar sensor designed to provide nominal height of burst of 15 feet above ground level. The radar system senses an approaching target by detecting the doppler signal and uses the amplitude of the signal to determine the distance to the target. When the predetermined amplitude is sensed a fire signal is initiated. In the event of a radar sensor failure, an impact sensor fires the detonator when the munition impacts the ground. An air driven turbine, mounted on the front end of the fuze, is used to drive an electrical generator which, in turn, provides power to operate the system electronics.

Cost Data (In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
-	-	38,928	25.3	10,000	6.9	10,000	7.2

Basis for FY 1983/FY 1984 Request: This request is an increment of the projected requirement necessary to obtain the WRM inventory objective.

OTHER PROCUREMENT, AIR FORCE

MUNITIONS DATA SHEET

P-1 Line Item: 58

Nomenclature: MK-339 Mech Time

Mission/Description: The MK-339 is a mechanical time fuze used with chaff and leaflet bombs and cluster munitions which utilize the SUU-30 dispenser. It provides two pre-set pilot-selectable delay fuze function times (arming wires) each settable from 1 to 50 seconds in calibrated 0.1 second increments.

Cost Data (In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
16,821	4.4	25,002	7.1	20,601	6.0	20,601	6.3

Basis for FY 1983/FY 1984 Request: Procurement is required to support projected peacetime consumption during the FY 1983 and FY 1984 funded delivery period, to maintain pipeline/stock levels and to procure fuzes for selected cluster munitions currently in the War Reserve Materiel (WRM) stockpile to increase their operational effectiveness.

OTHER PROCUREMENT, AIR FORCE

MUNITIONS DATA SHEET

P-1 Line Item: 62

Nomenclature: 40MM Machine Gun, MK-19

Mission/Description: The MK 19 Mod 3 Grenade Machine Gun is a 40MM, belt-fed, blow-back-type, air cooled point and area suppression weapon. It is normally fired from a pintle mount on a vehicle, but can be fired from an M2 tripod mount.

Cost Data

(In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
-	-	177	4.2	161	4.0	180	4.7

Basis for FY 1983/FY 1984 Request: This request is an increment of the projected requirement necessary to obtain the WRM inventory objective.

OTHER PROCUREMENT, AIR FORCE

MUNITIONS DATA SHEET

P-1 Line Item: 63

Nomenclature: 9MM Handgun

Mission/Description: The 9MM handgun is a 9x19 (NATO 9MM Parrabellum) semi-automatic pistol that is more accurate than the Cal .45 and outperforms the Cal .38 handguns. It meets the DOD requirement for a standard-sized, general issue, high capacity, semi-automatic weapon and will replace the Cal .38 revolver in the AF inventory.

Cost Data

(In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
-	-	-	-	11,500	3.9	19,500	6.2

Basis for FY 1983/FY 1984 Request: This request is an increment of the projected requirement necessary to obtain the WRM inventory objective.

OTHER PROCUREMENT, AIR FORCE

VEHICULAR DATA SHEET

P-1 Line Item: 66

Nomenclature: Bus, 28 Passenger

Mission/Description: This commercial bus equips our bases with a fuel efficient diesel vehicle for base shuttle bus operations and transport of large aircraft crews and related flight gear. It is also used to transport dependent school children as well as large groups during military exercises.

Cost Data:

(In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
60	2.1	107	3.8	210	7.5	210	7.8

Basis for FY 1983/FY 1984 Request: The inventory objective is 1498 with a procurement requirement of 418 through the FY 1983 funded delivery period. 210 are budgeted in FY 1983 and FY 1984.

OTHER PROCUREMENT, AIR FORCE

VEHICULAR DATA SHEET

P-1 Line Item: 67

Nomenclature: Bus, Intercity

Mission/Description: This commercial intercity bus, with luggage storage compartments, equips four bases with a fuel efficient diesel vehicle which is used to transport Air Force bands and honor guards. The Air Force Academy uses this vehicle to transport students.

Cost Data: (In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
1	.1	4	.6	21	3.3	-	-

Basis for FY 1983/FY 1984 Request: The inventory objective is 94 with a procurement requirement of 44 through FY 83 funded delivery period. The FY 83 budget quantity is 21. There are none budgeted for FY 1984.

OTHER PROCUREMENT, AIR FORCE

VEHICULAR DATA SHEET

P-1 Line Item: 68

Nomenclature: Bus, 44 Passenger

Mission/Description: This commercial bus supplies our bases with a large capacity, fuel efficient, diesel vehicle which is used primarily as a school bus for dependent children. It is used also to transport passengers to and from aircraft and terminals where distant aircraft parking or weather dictates.

Cost Data: (In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
22	1.9	81	4.7	86	3.9	73	3.0

Basis for FY 1983/FY 1984 Request: The inventory objective is 589 with a procurement requirement of 222 through the FY 1983 funded delivery period. The FY 1983 budget quantity is 86, and 73 are budgeted in FY 1984.

OTHER PROCUREMENT, AIR FORCE

VEHICULAR DATA SHEET

P-1 Line Item: 71

Nomenclature: Modular Ambulance

Mission/Description: This is a standard commercial chassis ambulance with either two or four wheel drive. It performs medical evacuation and movement of patients under field conditions, aircraft crash rescue operations, and both emergency and routine transportation of patients to and from medical facilities and hospitals. It will be equipped with an eight cylinder gasoline engine, automatic transmission, power steering/brakes, and medic[illegible]fe support systems. Capacity is three litter patients or eight seated patients. It will replace both the two wheel [illegible]e van ambulance and the four wheel drive truck (field) ambulance.

Cost Data:

(In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
-	-	219	5.3	320	7.4	278	7.0

Basis for FY 1983/FY 1984 Request: The inventory objective is 1160 with a procurement requirement of 515 through the FY 83 funded delivery period. The FY 83 budget quantity is 320 and the FY 1984 budget quantity is 278.

OTHER PROCUREMENT, AIR FORCE

VEHICULAR DATA SHEET

P-1 Line Item: 72

Nomenclature: Truck, Stake/Platform

Mission/Description: This vehicle is a gasoline engine driven, commercial vehicle with enclosed cab, steel and wood body, and removable stake siding and end boards. Much of its use entails delivery of critical parts, equipment and other cargo to flight line maintenance activities, hospitals, and other base supply customers. It is purchased primarily in the 1 1/2 ton 4x2 configuration. However, where mission permits, the downsized 1 ton version is purchased for increased fuel economy and maneuverability.

Cost Data: (In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
326	3.7	334	3.6	442	4.2	472	10.3

Basis for FY 1983/FY 1984 Request: The inventory objective is 4,682 with a procurement requirement of 1,448 through the FY 1983 funded delivery period. 442 are budgeted in FY 1983, and 472 are budgeted in FY 1984.

OTHER PROCUREMENT, AIR FORCE

VEHICULAR DATA SHEET

P-1 Line Item: 74

Nomenclature: Truck, Cargo-Utility, 1/2T, 4x2

Mission/Description: This is a commercial cargo truck with 4 doors and two full width seats which provide for a crew of six passengers. This vehicle has a six foot pickup body with a tailgate and an automatic transmission with two wheel drive. The Air Force uses this vehicle to transport personnel and light cargo which enable crews and materia. to travel together. It is used in direct support of weapons systems such as: SAC Missile Support, strategic aircraft crew changes at missile silos and tactical fighter alerts. This vehicle is generally operated on a base where off-highway, four wheel drive capability is not required.

Cost Data: (In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
242	1.9	222	1.7	397	3.5	894	8.0

Basis for FY 1983/FY 1984 Request: The inventory objective is 3,418 with a procurement requirement of 1,331 through the FY 83 funded delivery period. The FY 83 budget quantity is 397 and the FY 1984 budget quantity is 894.

3RB

OTHER PROCUREMENT, AIR FORCE

VEHICULAR DATA SHEET

P-1 Line Item: 75

Nomenclature: Truck, Pickup 1/2T, 4x2

Mission/Description: This is a standard commercial 1/2 ton pickup truck with a six cylinder gasoline engine, two wheel drive and an automatic transmission. In addition to general transportation of cargo and personnel, it supports flight line, base maintenance, supply and security police operations.

Cost Data: (In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
1107	6.6	441	3.4	533	3.2	730	5.7

Basis for FY 1983/FY 1984 Request: The inventory objective is 7239 with an FY 1983 procurement requirement of 1,845. 533 are budgeted in FY 1983 and 730 are budgeted in FY 1984.

OTHER PROCUREMENT, AIR FORCE

VEHICULAR DATA SHEET

P-1 Line Item: 76

Nomenclature: Truck, Pickup, Compact

Mission/Description: A commercial, 4x2 compact pickup truck, used by virtually all base activities to transport light cargo and personnel. Where possible it replaces the 1/2 ton pickup truck as part of an Air Force program to selectively downsize to more fuel efficient vehicles without causing adverse mission impact.

Cost Data: (In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
694	4.2	1073	5.4	1058	7.7	1058	8.1

Basis for FY 1983/FY 1984 Request: The inventory objective is 7,210 with a procurement requirement of 3926 through the FY 1983 funded delivery period. 1058 are budgeted both in FY 1983 and FY 1984.

(338)

OTHER PROCUREMENT, AIR FORCE

VEHICULAR DATA SHEET

P-1 Line Item: 78

Nomenclature: Truck, Panel, Multi-stop, 1T 4x2

Mission/Description: This is a commercial panel truck with sliding front doors, double rear doors, two wheel drive, automatic transmission, powered by a six cylinder or larger gasoline engine. It is used for light cargo transport, mobile post offices and air crew personnel transport. It is used extensively on the flight line to support aircraft maintenance and by civil engineers in base and airfield maintenance.

Cost Data: (In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
300	3.0	755	7.2	759	8.4	750	7.8

Basis for FY 1983/FY 1984 Request: The inventory objective is 5049 with a procurement requirement of 1924 through the FY 1983, funded delivery period. The FY 83 budget quantity is 759 and the FY 1984 budget quantity is 750.

OTHER PROCUREMENT, AIR FORCE

VEHICULAR DATA SHEET

P-1 Line Item: 80

Nomenclature: Truck, Carryall

Mission/Description: This is a commercial carryall, capable of carrying a minimum of eight passengers (including driver). The vehicle is used by communication, weather and radar sites as a combination cargo and group personnel carrier; by medical repair teams, to transport test and repair equipment to hospitals and medical facilities; by SAC missile and aircraft alert crews; and in some instances as airport transportation for personnel and their luggage.

Cost Data: (In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
326	3.2	325	3.0	385	4.0	428	4.7

Basis for FY 1983/FY 1984 Request: The inventory objective is 2728 with a requirement of 879 through the FY 1983 funded delivery period. The FY 1983 budget quantity is 385 and the FY 1984 quantity is 428.

OTHER PROCUREMENT, AIR FORCE

VEHICULAR DATA SHEET

P-1 Line Item: 81

Nomenclature: Commercial Utility Cargo Vehicles

Mission/Description: These are commercial four-wheel drive 3/4 and 1 1/4 ton vehicles. They will be procured by the Army and assigned M-series designators. They are required for support of Air Base Ground Defense, Southwest Asia and the Ground Launched Cruise Missile programs. The cargo version replaces the present M-880 series vehicles.

Cost Data: (In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
-	-	286	3.3	525	6.7	1,634	22.1

Basis for FY 1983/FY 1984 Request: The inventory objective is 2,616 with a procurement requirement of 2,330 through the FY 83 funded delivery period. The FY 83 budget quantity is 525 and the FY 1984 budget quantity is 1,634.

OTHER PROCUREMENT, AIR FORCE

VEHICULAR DATA SHEET

P-1 Line Item: 82

Nomenclature: Truck, Cargo 2 1/2T, 6x6, M35

Mission/Description: This vehicle is of military design with open or closed cab and with lattice type side extensions. It is multi-fuel engine driven, with six wheel drive, used to haul cargo and equipment, transport troops and their gear, and to tow trailers up to 10,000 lb. It will also be used in support of GLCM (Ground Launched Cruise Missile) operations.

Cost Data: (In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
174	6.7	441	17.0	388	16.6	460	20.6

Basis for FY 1983/FY 1984 Request: The inventory objective is 3908 with a procurement requirement of 2486 through the FY 1983 funded delivery period. 388 are budgeted in FY 1983 and 460 are budgeted in FY 1984.

OTHER PROCUREMENT, AIR FORCE

VEHICULAR DATA SHEET

P-1 Line Item: 83

Nomenclature: Truck, Cargo 5T, M-923/M-925

Mission/Description: This is a military design, 5 ton, Diesel Engine Driven, 6x6 truck with a driving front axle, manual engagement, and 2 driving rear axles. It is an all terrain vehicle used to transport personnel and cargo. Assigned primarily to USAF tactical mobility forces, it is the primary transport for the AN/TPN radar set which is integral and critical to the bare base concept. The M-925 is equipped with a 20,000 pound winch.

Cost Data:

(In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
93	6.5	141	10.5	203	15.8	77	6.7

Basis for FY 1983/FY 1984 Request: The inventory objective is 775 with a procurement requirement of 334 through the FY 1983 funded delivery period. The FY 1983 budget quantity is 203 and the FY 1984 budget quantity is 77.

OTHER PROCUREMENT, AIR FORCE

VEHICULAR DATA SHEET

P-1 Line Item: 87

Nomenclature: Truck, Tractor, 5T

Mission/Description: This truck tractor is of standard commercial design. It is equipped with automatic transmission, fifth wheel and all electrical and air connections required for towing a trailer. It is used for towing trailers and semi-trailers to support medical missions, refueling operations, towing engine test stands and trailers for instructional groups.

Cost Data:

(In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
91	3.0	72	2.5	80	3.0	-	-

Basis for FY 1983/FY 1984 Request: The inventory objective is 1,099 with a procurement requirement of 294 through the FY 83 funded delivery period. The FY 83 budget quantity is 80.

OTHER PROCUREMENT, AIR FORCE

VEHICULAR DATA SHEET

P-1 Line Item: 89

Nomenclature: Truck, Tractor, Over 5T

Mission/Description: This vehicle classification includes diesel. commercial truck tractors over 5 tons capacity. They are used for towing critical direct mission support equipment such as: MSG-1 mobile radar tracking vans; SAC LGM-30 missile trailers; liquid oxygen and nitrogen trailers; and the Air Force Orientation Group audio-visual equipment van.

Cost Data: (In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
131	6.2	176	7.7	226	11.2	360	15.8

Basis for FY 1983/FY 1984 Request: The inventory objective is 1655 with a procurement requirement of 650 through the FY 1983 funded delivery period. 226 are budgeted in FY 1983 and 360 are budgeted in FY 1984.

OTHER PROCUREMENT, AIR FORCE

VEHICULAR DATA SHEET

P-1 Line Item: 90

Nomenclature: Truck, Wrecker, 4.5T

Mission/Description: This is a truck, wrecker, commercial model, 32,000 GVW, 4X2, diesel engine driven, 12 ton boom capacity with outriggers. This wrecker is primarily used by Communication, Electronic and Maintenance units to retrieve disabled/inoperative equipment.

Cost Data: (In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
12	.5	6	.2	85	4.0	-	-

Basis for FY 1983/FY 1984 Request: The inventory objective is 229 with a procurement requirement of 85 through the FY 83 funded delivery period. The FY 83 budget buys out the requirement.

OTHER PROCUREMENT, AIR FORCE

VEHICULAR DATA SHEET

P-1 Line Item: 92

Nomenclature: Truck, Dump 5 Ton

Mission/Description: This is a standard commercial dump truck, which is purchased in 4x2, 4x4 and 6x4 drive chassis configurations. It is used to haul and dump cleared materials such as dirt, rocks, trees, stumps and brush; to spread surfacing material; to clear snow from taxiways, runways, and roadways; and for Rapid Runway Repair (RRR) and Red Horse operations.

Cost Data: (In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
151	4.2	388	11.2	349	12.6	124	5.3

Basis for FY 1983/FY 1984 Request: The inventory objective is 2217 with a procurement requirement of 504 through the FY 1983 funded delivery period. 349 are budgeted in FY 1983 and 124 are budgeted in FY 1984.

OTHER PROCUREMENT, AIR FORCE

VEHICULAR DATA SHEET

P-1 Line Item: 100

Nomenclature: Truck, Tank, Fuel, 5,000 Gal, R-9

Mission/Description: This is a 5,000 gallon diesel engined refueling truck designed to deliver fuel to aircraft by either single point or over the wing method. It is the primary aircraft fuel servicing vehicle in the inventory. It is compatible with all inventory aircraft and is used to support every command.

Cost Data: (In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
120	9.7	472	40.7	360	33.6	-	-

Basis for FY 1983/FY 1984 Request: The inventory objective is 2264 with an FY 1983 procurement requirement of 1100. The FY 1983 budget quantity is 360 with 740 deferred to subsequent years. There is no budget request for FY 1984.

OTHER PROCUREMENT, AIR FORCE

VEHICULAR DATA SHEET

P-1 Line Item: 107

Nomenclature: Tractor, A/C Tow, M3-2

Mission/Description: A commercial tractor with a diesel engine and four wheel drive and steering. It tows aircraft up to 500,000 pounds including B-52 bombers and large cargo/refueling aircraft such as the C-141 and KC-135. These vehicles significantly enhance launch, turnaround and aircraft maintenance capability.

Cost Data: (In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
61	4.5	113	9.0	96	8.0	-	-

Basis for FY 1983/FY 1984 Request: This is a critical item because spares are no longer available to support the 1958-66 models in the current inventory. The inventory objective is 458 with a procurement requirement of 169 through the 1983 funded delivery period. The FY 1983 budget quantity is 96, deferring 73 to subsequent years. There is no budget for FY 1984.

OTHER PROCUREMENT, AIR FORCE

VEHICULAR DATA SHEET

P-1 Line Item: 709

Nomenclature: Tractor, Tow, Flightline

Mission/Description: This vehicle has a standard commercial chassis equipped with 6 cylinder gasoline engine, automatic transmission and dual rear wheels. The wheelbase is shortened, and ballast, protective rails and other devices are added to make it suitable for towing support equipment. The primary use of this tractor is towing and positioning support equipment around aircraft; however, when equipped with special trailer connections, it is also used for towing munitions trailers.

Cost Data:

(In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
229	3.0	740	12.8	352	5.1	250	3.8

Basis for FY 1983/FY 1984 Request: The inventory objective is 3610 with a procurement requirement of 2612 through the FY 1983 funded delivery period. 352 are budgeted in FY 1983 and 250 are budgeted in FY 1984.

350

OTHER PROCUREMENT, AIR FORCE

VEHICULAR DATA SHEET

P-1 Line Item: 115

Nomenclature: Truck, Demineralized Water, 2600 Gallon

Mission/Description: This is a commercial truck with a 2600 gallon demineralized water tank mounted on a heavy duty chassis. It is a direct mission support vehicle used to dispense demineralized water to aircraft such as the B-52 and the KC-135. The addition of demineralized water significantly improves aircraft performance and safety margins on take-off in high density altitude conditions, thus enhancing strategic deterence capability.

Cost Data: (In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
11	1.1	29	2.9	50	5.3	-	-

Basis for FY 1983/FY 1984 Request: The inventory objective is 310 with a procurement requirement of 132 through the FY 83 funded delivery period. The FY 83 budget quantity is 50. There is no budget request for FY 1984.

OTHER PROCUREMENT, AIR FORCE

VEHICULAR DATA SHEET

P-1 Line Item: 128

Nomenclature: Truck Forklift, 6000 lb

Mission/Description: This is a 6000-lb commercial forklift with pneumatic tires.
It is used for munitions handling, aerial port operations, base supply warehouses, maintenance shop and materials holding area support Air Force-wide. The equipment is purchased in electric, gasoline and diesel engined models, as well as in a rough-terrain configuration. The rough-terrain model is a support vehicle for USAF mobility units for use in forward area deployments.

Cost Data:

(In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
142	4.1	226	6.7	395	14.1	201	8.5

Basis for FY 1983/FY 1984 Request: The inventory objective is 2085 with a procurement requirement of 928 through the FY 1983 funded delivery period. The FY 1983 budget quantity is 395 and the FY 1984 budget quantity is 201.

OTHER PROCUREMENT, AIR FORCE

VEHICULAR DATA SHEET

P-1 Line Item: 129

Nomenclature: Truck, Forklift, 10,000 lb

Mission/Description: These 10,000 lb commercial forklifts are used as the basic air cargo material handling system support vehicle to handle 108"x88" pallets in conjunction with pallet trailers. The vehicle is compatible with, and supports all strategic and tactical airlift aircraft except the wide-body Civil Reserve Air Fleet aircraft. It is purchased in two configurations, the dual 150" lift, 72" tine configuration with lateral shift capability and in a rough terrain configuration.

Cost Data: (In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
151	6.8	443	22.4	210	11.4	175	11.0

Basis for FY 1983/FY 1984 Request: The inventory objective is 2441 with a procurement requirement of 707 in FY 1983. 210 are budgeted in FY 1983 and 175 are budgeted in FY 1984.

OTHER PROCUREMENT, AIR FORCE

VEHICULAR DATA SHEET

P-1 Line Item: 134

Nomenclature: 25K A/C Loader

Mission/Description: This vehicle is diesel powered, C-130 air transportable, and has an adjustable conveyorized cargo platform. It is used at major air cargo terminals for mechanized loading/off-loading and ground transport of palletized air cargo, and provides minimum turn around time for C-5, C-130 and C-141 cargo aircraft.

Cost Data: (In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
23	3.0	59	7.3	66	9.6	8	1.2

Basis for FY 1983/FY 1984 Request: The inventory objective is 620 with a procurement requirement of 488 through the FY 1983 funded delivery period. The FY 1983 budget quantity is 65 and the FY 1984 quantity is 8. A remanufacture program will satisfy 313 of the procurement requirement.

OTHER PROCUREMENT, AIR FORCE

VEHICULAR DATA SHEET

P-1 Line Item: 137

Nomenclature: Loader Scoop

Mission/Description: This family of vehicles is defined as a diesel engined commercial scoop type front end loader of 1 1/2, 2 1/2 or 4 cubic yard capacity. It is used by the Civil Engineering organization for base maintenance, construction/repair, bulk handling (rocks, sand, gravel), and snow removal, excavating, trenching and sanitary fill support at bases worldwide. It is also slated for Rapid Runway Repair (RRR) in Europe and the Red Horse Modernization project. It comes in either pneumatic tired 4x4 or tracked configuration, depending on mission requirements.

Cost Data: (In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
53	2.7	94	6.4	188	12.8	163	14.4

Basis for FY 1983/FY 1984 Request: The inventory objective is 853 with a procurement requirement of 368 through the FY 1983 funded delivery period. The FY 1983 budget quantity is 188 and the FY 1984 budget quantity is 163.

OTHER PROCUREMENT, AIR FORCE

VEHICULAR DATA SHEET

P-1 Line Item: 141

Nomenclature: Cleaner, Runway/Street

Mission/Description: This item is a commercial sweeper used on all airfield surfaces and streets to control foreign object damage to aircraft tires and engines, and to sweep snow. One model is a component of the Rapid Runway Repair (RRR) sets. The equipment is purchased in both the towed rotary sweeper configuration and a self-propelled vacuum suction model. During winter operations the snow sweeper is a direct mission support vehicle at SAC and TAC bases.

Cost Data: (In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
69	2.9	95	3.5	112	5.8	14	.1

Basis for FY 1983/FY 1984 Request: The inventory objective is 1017 with a procurement requirement of 338 through the FY 1983 funded delivery period. The FY 1983 budget quantity is 112 and the FY 1984 budget quantity is 14.

OTHER PROCUREMENT, AIR FORCE

VEHICULAR DATA SHEET

P-1 Line Item: 143

Nomenclature: Grader, Road, Motorized

Mission/Description: This vehicle family can be defined as a commercial, diesel engined road grader with four-wheel drive and a twelve foot power controlled blade. The equipment is used for roads/grounds maintenance at all bases and gunnery ranges, and snow removal at missile sites. Red Horse units require six each per squadron except the 819th which requires three each. The unit is procured in both a small size 2 and medium size 5 model.

Cost Data:

(In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
20	1.2	55	3.7	43	3.0	83	5.8

Basis for FY 1983/FY 1984 Request: The inventory objective is 557 with a procurement requirement of 245 through the FY 83 funded delivery period. The FY 83 budget is 43 and the FY 1984 budget is 83.

OTHER PROCUREMENT, AIR FORCE

VEHICULAR DATA SHEET

P-1 Line Item: 144

Nomenclature: Crane, 7-50 Ton

Mission/Description: This line consists of commercial cranes, most of which are diesel powered, hydraulically operated with 7-50 ton capacities. The major users are civil engineering, munitions and aircraft maintenance. Specific mission requirements are: heavy cargo lifting, earth moving/construction, munitions handling, SAC silo missile changes, ATC missile change training, aircraft engine changes, ship loading/offloading, and aircraft crash recovery operations. Requirements have been reviewed and a number of the vehicles downsized to take advantage of specific state-of-the-art developments.

Cost Data: (In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
41	4.1	59	4.8	92	9.0	26	5.9

Basis for FY 1983/FY 1984 Request: The inventory objective is 647 with a procurement requirement of 316 through the FY 1983 funded delivery period. The FY 1983 budget quantity is 92 and the FY 1984 budget quantity is 26.

OTHER PROCUREMENT, AIR FORCE

VEHICULAR DATA SHEET

P-1 Line Item: 146

Nomenclature: Excavator, DED, PT

Mission/Description: This is a commercial excavator, diesel engine driven, pneumatic tired, and equipped with accessories used for breaking and removing concrete and digging holes. The excavator offers an advancement in the technology of Rapid Runway Repair. Because of its mobility, it can be driven to the damaged area where the reach capability makes it unnecessary to put the machine and operator into the crater for removal of damaged runway surface material.

Cost Data: (In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
-	-	12	1.9	30	4.9	39	6.6

Basis for FY 1983/FY 1984 Request: The inventory objective is 42 with a procurement requirement of 30 through the FY 83 funded delivery period. The FY 83 budget is 30, and the FY 1984 budget buys out the requirement.

OTHER PROCUREMENT, AIR FORCE

VEHICULAR DATA SHEET

P-1 Line Item: 149

Nomenclature: Modifications

Mission/Description: Provides for modification and remanufacture of vehicles to extend life expectancy, correct deficiencies, and avoid costly replacement programs.

Cost Data: (In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
-	5.6	-	7.4	-	8.9	-	8.3

Basis for FY 1983/FY 1984 Request: To continue efforts begun in previous years. The largest projects are the modification remanufacture of the 25K Loader and the P-2 crash fire truck.

OTHER PROCUREMENT, AIR FORCE

ELECTRONIC AND TELECOMMUNICATIONS DATA SHEET

P-1 Line Item: 151

Nomenclature: Space Systems

Mission/Description: The Air Force is the single manager for all COMSEC equipment used in U.S. space systems. It includes the ground communications security (COMSEC) equipment required to protect command uplinks, telemetry down-links and mission information links of DOD Space programs.

Cost Data

(In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
-	15.1	-	44.7	-	53.3	-	20.8

Basis for FY 1983/1984 Request: In both years provides funding for the procurement of equipments for the satellite control facility, Space Shuttle, Defense Satellite Communications System, and special projects.

OTHER PROCUREMENT, AIR FORCE

ELECTRONIC AND TELECOMMUNICATIONS DATA SHEET

P-1 Line Item: 153

Nomenclature: Tactical Secure Voice

Mission/Description: Provides Vinson, Parkhill and Bancroft equipments and ancillaries for the Vinson/Parkhill implementation plan and the Ground Launched Cruise Missile. This equipment will provide voice security in support of command and control, secure intrabase communications, alerting systems, ground facility support for airborne operations, and other tactical secure voice requirements.

Cost Data (In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
-	7.0	-	18.1	-	20.2	-	14.8

Basis for FY 1983/1984 Request: In both years funds procurement of equipments to support GLCM and Tactical Air Control Systems.

OTHER PROCUREMENT, AIR FORCE

ELECTRONIC AND TELECOMMUNICATIONS DATA SHEET

P-1 Line Item: 154

Nomenclature: DCS Secure Voice

Mission/Description: Provides Vinson and Parkhill equipment and ancillaries in support of the Vinson/Parkhill Wireline Program and provides STU-II equipment for the Secure Voice Improvement Program.

Cost Data (In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
-	-	-	-	-	9.3	-	7.0

Basis for FY 1983/1984 Request: In both years funds procurement of equipment to provide secure voice telephone service.

OTHER PROCUREMENT, AIR FORCE

ELECTRONIC AND TELECOMMUNICATIONS DATA SHEET

P-1 Line Item: 155

Nomenclature: Secure Data

Mission/Description: Provides equipment to support Air Force worldwide record and data communication.

Cost Data

(In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
-	10.2	-	15.8	-	25.3	-	38.0

Basis for FY 1983/1984 Request: Procurement in both years of equipment to support the Joint Tactical Information Distribution System, SEEK TALK, Ground Launched Cruise Missile, and a variety of other programs.

OTHER PROCUREMENT, AIR FORCE

ELECTRONIC AND TELECOMMUNICATIONS DATA SHEET

P-1 Line Item: 156

Nomenclature: TRI-TAC

Mission/Description: Tri-Tac is a multi-service DOD directed effort to develop/procure a new generation joint tactical communications system to include trunking, switching, system control, local distribution, individual terminal, system interface, and transmission equipments.

Cost Data

(In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
-	1.1	-	11.3	-	12.3	-	15.3

Basis for FY 1983/1984 Request: In both years funds procurement of COMSEC equipment to support the TRI-TAC Air Force Transition Plan and USREDCOM requirements.

OTHER PROCUREMENT, AIR FORCE

ELECTRONIC AND TELECOMMUNICATIONS DATA SHEET

P-1 Line Item: 165

Nomenclature: Traffic Control and Landing

Mission/Description: This program provides USAF ground facilities and equipment (fixed and mobile) necessary to provide safe, orderly and expeditious aircraft movements. Included are systems necessary for the DOD mission but not provided by the FAA in the following major functional areas: enroute and terminal navigation, approach and landing, air traffic control communications, and necessary interface with other systems (both national and international).

Cost Data

(In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
-	8.6	-	6.8	-	5.1	-	4.1

Basis for FY 1983/1984 Request: In FY 83 completes the procurement of new communication control systems for USAF air traffic control facilities. These systems will replace existing obsolete government owned equipment. In FY 84 procures high speed Flight Data Entry Print Out systems as a replacement for the existing low speed , unreliable system.

OTHER PROCUREMENT, AIR FORCE

ELECTRONIC AND TELECOMMUNICATIONS DATA SHEET

P-1 Line Item: 167

Nomenclature: Weather Observation/Forecast

Mission/Description: A continuing program for acquisition of meteorological forecast/space environmental equipment required by the Air Force Air Weather Service to support the worldwide mission of the Air Force and Army with specialized weather information. Equipment is both fixed and transportable in order to provide observing and forecasting services at the base/post level and for field deployments

Cost Data

(In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
-	-	-	4.3	-	3.7	-	5.4

Basis for FY 1983/1984 Request: In both years provides funds to replace 20-30 year-old equipment which impacts flight safety, such as cloud height, radio propagation, balloon tracking and wind measuring equipment. Equipment is used at airdromes and on the battlefield to determine precise local weather conditions affecting flight operations.

OTHER PROCUREMENT, AIR FORCE

ELECTRONIC AND TELECOMMUNICATIONS DATA SHEET

P-1 Line Item: 168

Nomenclature: Defense Support Program

Mission/Description: The Defense Support Program provides

Cost Data

(In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
-	65.6	-	94.6	-	88.7	-	4.8

Basis for FY 1983/1984 Request: FY 1983 funds will procure three Mobile Ground Terminals (MGT) as non-targetable satellite readout stations, replace Jam Resistant Secure Communication vans to improve operational efficiency with MGT, and modify existing ground stations
FY 1984 funds will continue support for these efforts.

OTHER PROCUREMENT, AIR FORCE

ELECTRONIC AND TELECOMMUNICATIONS DATA SHEET

P-1 Line Item: 169

Nomenclature: OTH-B Radar

Mission/Description: Will provide tactical early warning of hostile aircraft in the approaches to North America out to 1800 nm. This will allow detection of penetrating bombers beyond the range of their standoff missiles and provide increased warning time.

Cost Data (In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
-	-	-	-	-	-	-	192.1

Basis for FY 1983/1984 Request: Procurement of two 60 degree sectors in FY 1984 which when combined with the R&D funded initial operating sector will complete the 180 degree configuration of the east cost system.

OTHER PROCUREMENT, AIR FORCE

ELECTRONIC AND TELECOMMUNICATIONS DATA SHEET

P-1 Line Item: 170

Nomenclature: SACDIN

Mission/Description: Will provide CINCSAC with a secure hard copy communication system that will satisfy SAC command and control requirements. It will replace SATIN I and the Data Transmission Subsystem of the SAC Automated Command and Control System.

Cost Data

(In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
-	-	-	22.1	-	-	-	121.8

Basis for FY 1983/1984 Request: Procures SACDIN hardware in FY 1984 for a FY 1985 operational capability.

370

OTHER PROCUREMENT, AIR FORCE

ELECTRONIC AND TELECOMMUNICATIONS DATA SHEET

P-1 Line Item: 171

Nomenclature: Cheyenne Mountain Complex

Mission/Description: This program provides command, control and communications systems in support of NORAD. Computing and display equipment, located within the NORAD Cheyenne Mountain Complex, provides a focal point for all pre, trans, and post attack information necessary to direct the defense of the continent and to provide the NCA a basis for decision making.

Cost Data (In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
-	-	-	6.6	-	25.3	-	10.1

Basis for FY 1983/1984 Request: FY 83 funds provide for the procurement of a data processing system for the Space Defense Operations Center (SPADOC) to support the satellite survivability and anti-satellite missions. The hardware includes two medium and one large computer systems. FY 83 and FY 84 funds procure computer hardware for the SPADOC Computational Center (SCC) replacement program.

OTHER PROCUREMENT, AIR FORCE

ELECTRONIC AND TELECOMMUNICATIONS DATA SHEET

P-1 Line Item: 172

Nomenclature: Pave Paws

Mission/Description: The primary submarine launched ballistic missile early warning system. The Air Force is operating east (Otis AFB) and west (Beale AFB) coast sites.

Cost Data (In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
-	-	-	-	-	69.4	-	102.3

Basis for FY 1983/1984 Request: Funds the southeast Pave Paws in FY 83 and southwest in FY 84 to close coverage gaps against submarine launched ballistic missiles. FY 1984 funds will also upgrade the southeast site to allow assumption of the Spacetrack mission from the FPS-85 radar.

OTHER PROCUREMENT, AIR FORCE

ELECTRONIC AND TELECOMMUNICATIONS DATA SHEET

P-1 Line Item: 173

Nomenclature: Spacetrack

Mission/Description: Spacetrack is a worldwide system of radar and optical sensors which provides data to the Space Computation Center. The current sensor network requires modest enhancement to assure adequate surveillance and tracking systems.

Cost Data

(In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
-	6.5	-	20.2	-	3.9	-	1.7

Basis for FY 1983/1984 Request: In both years funds procurement of communications and data processing equipment to permit the use of the Navy TRANSIT system to reduce pointing and tracking errors. Replaces Groundbased Electro-Optical Deep Space Surveillances sensor tubes with charge couple devices.

OTHER PROCUREMENT, AIR FORCE

ELECTRONIC AND TELECOMMUNICATIONS DATA SHEET

P-1 Line Item: 175

Nomenclature: Defense Meteorological Satellite Program

Mission/Description: Provides timely, high quality worldwide weather data to support strategic missions. Also provides real-time local weather data to tactical vans supporting tactical operations.

Cost Data

(In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
-	4.0	-	1.8	-	4.1	-	11.4

Basis for FY 1983/1984 Request: In both years procures upgrades to MARK IV tactical vans to receive and process additional weather data and acquires a central display module which produces high resolution weather data for use at Air Force Global Weather Central. Four tactical terminals will be procured in FY 84.

OTHER PROCUREMENT, AIR FORCE

ELECTRONIC AND TELECOMMUNICATIONS DATA SHEET

P-1 Line Item: 176

Nomenclature: Minimally Attended Radar System (MARS)

Mission/Description: The MARS will upgrade the Alaskan Air Command sensor capability with modern search radars having a height finding capability that can provide search, height finding, beacon identification, strobe and other data for transmission to the region operations control center at Elmendorf AFB. It will be capable of operating unattended up to five days. The present radars at 13 operational sites have been in use for 20 years. The time and manpower resources required to maintain and repair the outmoded equipment have become increasingly costly. Procurement of the minimally attended radar will significantly reduce life cycle costs and provide operational improvements.

Cost Data (In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
-	-	-	57.3	-	28.3	-	-

Basis for FY 1983/1984 Request: Procurement of four AN/FPS-117 radars in FY 1983 to complete a two year, 13 radar buy for modernization of the Alaskan Aircraft Control and Warning Network.

OTHER PROCUREMENT, AIR FORCE

ELECTRONIC AND TELECOMMUNICATIONS DATA SHEET

P-1 Line Item: 177

Nomenclature: Tactical SIGINT Support

Mission/Description: This program will provide improved communications between the SIGINT collection systems and Tactical Air Control Systems.

Cost Data

(In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
-	-	-	9.4	-	20.5	-	13.2

Basis for FY 1983/1984 Request: In both years funds procurement for replacement of outmoded communications equipments in support of the Air Force's emergency reaction special security communications system and wideband data link to provide communications linkage with elements of the remote tactical airborne SIGINT system.

(376)

OTHER PROCUREMENT, AIR FORCE

ELECTRONIC AND TELECOMMUNICATIONS DATA SHEET

P-1 Line Item: 178

Nomenclature: Distant Early Warning Radar

Mission/Description: Will replace the current 31 radar sites with 11 minimally attended radars and 35 unattended short range radars. This replacement will reduce operating costs and improve system performance.

Cost Data

(In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
-	-	-	-	-	31.2	-	51.9

Basis for FY 1983/1984 Request: Procurement of the initial four minimally attended radars in FY 83 and additional radars in FY 84.

(378)

OTHER PROCUREMENT, AIR FORCE

ELECTRONIC AND TELECOMMUNICATIONS DATA SHEET

P-1 Line Item: 179

Nomenclature: Transportable Ground Intercept Facility (TGIF)

Mission/Description: The TGIF [redacted] will be the principal processing asset for Air Force tactical support.

Cost Data (In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
-	14.6	-	32.7	-	27.4	-	4.1

Basis for FY 1983/1984 Request: In FY 83 procures a TGIF to support the second [redacted] ground station. FY 84 funds support production improvement resulting from ongoing RDT&E efforts.

OTHER PROCUREMENT, AIR FORCE

ELECTRONIC AND TELECOMMUNICATIONS DATA SHEET

P-1 Line Item: 180

Nomenclature: TR-1 Ground Stations

Mission/Description: Will provide communications of near real-time intelligence and battlefield management information to tactical commanders in the Central European Region.

Cost Data

(In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
-	-	-	-	-	.9	-	64.9

Basis for FY 1983/1984 Request: FY 1983 funds for communication equipment to provide TR-1 information to tactical users. FY 84 funds will procure two TR-1 Ground Stations to support European requirements.

OTHER PROCUREMENT, AIR FORCE

ELECTRONIC AND TELECOMMUNICATIONS DATA SHEET

P-1 Line Item: 182

Nomenclature: TEREC Ground Processor

Mission/Description: The Tactical Electronic Reconnaissance (TEREC) system provides tactical commanders with a capability to rapidly establish and maintain a hostile electronic order of battle. TEREC, through a UHF/HF radio data link, provides data on location and operating characteristics of hostile emitters to ground based facilities for target selection, weapons selection, and employment tactics.

Cost Data

(In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
-	4.8	-	6.1	-	-	-	18.8

Basis for FY 1983/1984 Request: FY 1984 funds will procure 58 TEREC Remote Terminals and peculiar support equipment.

(380)

OTHER PROCUREMENT, AIR FORCE

ELECTRONIC AND TELECOMMUNICATIONS DATA SHEET

P-1 Line Item: 184

Nomenclature: Imagery Trans

Mission/Description: An intra-theater imagery transmission system (IITS) transceiver converts reconnaissance imagery into a form appropriate for transmission and converts received imagery into a hard copy for commanders, mission planners and strike crews.

Cost Data (In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
-	-	-	6.3	-	4.5	-	3.7

Basis for FY 1983/1984 Request: Procurement of 41 transceivers in FY 1983 and 32 in FY 1984.

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OTHER PROCUREMENT, AIR FORCE

ELECTRONIC AND TELECOMMUNICATIONS DATA SHEET

P-1 Line Item: 185

Nomenclature: Integrated Operational NUDET Detection System (IONDS)

Mission/Description: IONDS provides a capability to detect, accurately locate, and report in near real time tactical nuclear detonations on a global basis. Funds in this appropriation procure ground user terminals.

Cost Data

(In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
-	-	-	-	-	-	-	20.2

Basis for FY 1983/1984 Request: In FY 1984 procures ten ground terminals for installation in major command centers.

OTHER PROCUREMENT, AIR FORCE

ELECTRONIC AND TELECOMMUNICATIONS DATA SHEET

P-1 Line Item: 187

Nomenclature: Automatic Data Processing Equipment

Mission/Description: Provides automatic data processing equipment necessary for the Air Force mission. Purchase candidates are identified through exhaustive and continuing economic analyses based on the cost effectiveness of the purchase versus lease alternative.

Cost Data (In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
-	23.3	-	36.1	-	55.0	-	87.5

Basis for FY 1983/1984 Request: In both years provides for purchase of installed computers and peripheral equipment to support government-owned computer systems. Items are commercially available automatic data processing equipment from various manufacturers and third party vendors for various management and mission support applications.

OTHER PROCUREMENT, AIR FORCE

ELECTRONIC AND TELECOMMUNICATIONS DATA SHEET

P-1 Line Item: 188

Nomenclature: World Wide Military Command & Control System (WWMCCS) ADPE

Mission/Description: The WWMCCS provides the means for operational direction and technical administrative support involved in the command and control of the U.S. military forces. It supports the National Command Authority, Joint Chiefs of Staff, Commanders of the unified and specified commands, and the military services and agencies through all levels of crisis and conflict.

Cost Data (In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
-	8.3	-	11.5	-	9.0	-	12.2

Basis for FY 1983/1984 Request: In both years funds procurement of equipment to upgrade WWMCCS and for replacement of obsolescent equipment.

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OTHER PROCUREMENT, AIR FORCE

ELECTRONIC AND TELECOMMUNICATIONS DATA SHEET

P-1 Line Item: 189

Nomenclature: MAC Command and Control Support

Mission/Description: Provides support to CINCMAC, his staff, operating headquarters, and operating locations with a highly responsive selectively integrated command, control, and information management system to improve resource management.

Cost Data (In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
-	-	-	5.0	-	11.0	-	11.1

Basis for FY 1983/1984 Request: In both years funds procurement of automated data processing and communication equipment required to provide MAC with a consolidated aerial port subsystem, highly mobile capability to support forward airfields and other airlift missions, and upgrades to provide a secure capability to transmit and receive force control information.

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OTHER PROCUREMENT, AIR FORCE

ELECTRONIC AND TELECOMMUNICATIONS DATA SHEET

P-1 Line Item: 191

Nomenclature: GLCM Communications

Mission/Description: Provides base fixed and mobile communication equipment to support the Ground Launched Cruise Missile (GLCM).

Cost Data

(In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
-	-	-	1.3	-	10.8	-	7.7

Basis for FY 1983/1984 Request: Procurement of communication equipment for the first two GLCM European bases in FY1983 and for the third European base in FY 1984.

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OTHER PROCUREMENT, AIR FORCE

ELECTRONIC AND TELECOMMUNICATIONS DATA SHEET

P-1 Line Item: 192

Nomenclature: Air Base Defense System

Mission/Description: This program provides for security protection of storage areas and alert facilities for aircraft and special weapons at worldwide locations through procurement and deployment of physical security sensor systems. Deployment of these sensor systems enhances security levels and in combination with security personnel is designed to meet the increased terrorist threat. The systems consist of interior and exterior sensors and sensor related equipment configured as closed systems to protect storage areas, alert aircraft parking areas, and individual aircraft shelters. Sensor activations are transmitted to a local control area and to remotely located displays.

Cost Data (In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
-	17.5	-	15.2	-	26.7	-	73.1

Basis for FY 1983/1984 Request: In both years includes procurement of equipments to complement intrusion detection systems procured earlier to include; short ported coaxial cable sensor, open ramp boundary sensor, line range detection sensor, security police radios, and equipment for protection of the Ground Launched Cruise Missile (GLCM) .

OTHER PROCUREMENT, AIR FORCE

ELECTRONIC AND TELECOMMUNICATIONS DATA SHEET

F-1 Line Item: 195

Nomenclature: Range Improvements

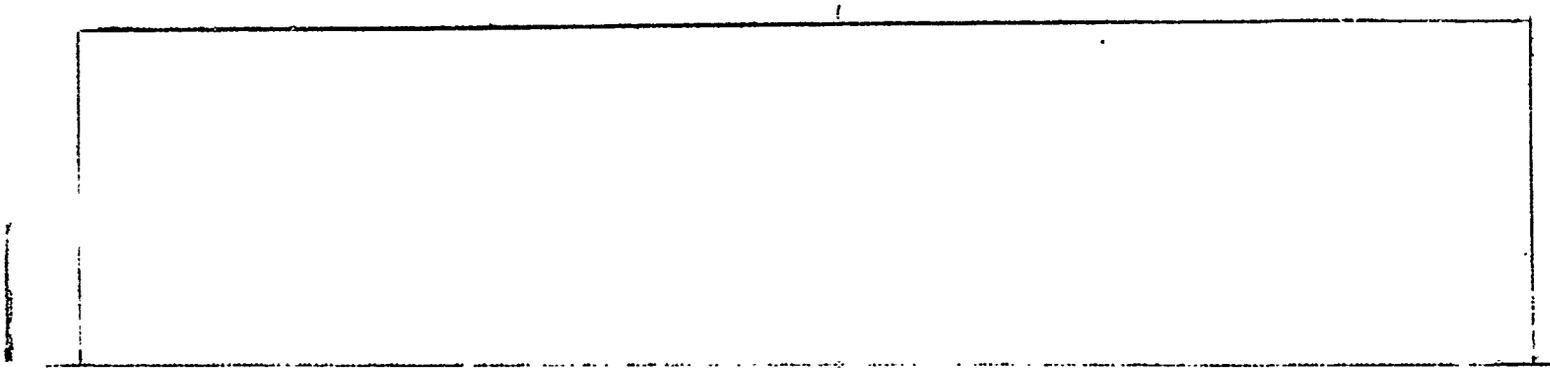
Mission/Description: Provides improved capabilities to conduct weapon testing and training at ranges. Ranges must be kept versatile technically up-to-date, able to accommodate the demands of higher performance aircraft and weapon systems, and provide a realistic combat environment. Beginning in FY 1983 the Training Support Equipment P-1 line has been consolidated into this line.

Cost Data

(In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
-	27.4	-	22.5	-	74.1	-	99.2

Basis for FY 1983/1984 Request: In both years procurement of equipments will continue for improvements associated with mission control, range communications, range instrumentation, and threat simulators.



OTHER PROCUREMENT, AIR FORCE

ELECTRONIC AND TELECOMMUNICATIONS DATA SHEET

P-1 Line Item: 198

Nomenclature: Radar Bomb Scorer

Mission/Description: Provides to SAC, systems for training bomber aircrews determining crew and equipment operational readiness and evaluating combat forces in support of contingency plans. The system is designed to acquire and track bomber aircraft to a simulated weapons release point and electronically compute impact point accuracy.

Cost Data (In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
-	-	-	-	-	20.7	-	19.0

Basis for FY 1983/1984 Request: Procurement of eight production Radar Bomb Scorer systems plus refurbishment of the prototype in FY 1983 and procurement of six systems in FY 1984.

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OTHER PROCUREMENT, AIR FORCE

ELECTRONIC AND TELECOMMUNICATIONS DATA SHEET

P-1 Line Item: 199

Nomenclature: C3 Countermeasures

Mission/Description: Provides for offensive electronic warfare disruption of enemy command, control, and communications systems. Also provides training aids to disrupt US C3 systems during exercises.

Cost Data

(In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
-	-	-	-	-	15.8		12.5

Basis for FY 1983/1984 Request: In both years funds procurement of "off-the-shelf" equipment to provide an offensive capability and training aids. Also procures data processing equipment to expand the Joint Electronic Warfare Center foreign signal data base.

OTHER PROCUREMENT, AIR FORCE

ELECTRONIC AND TELECOMMUNICATIONS DATA SHEET

P-1 Line Item: 201

Nomenclature: Space Shuttle

Mission/Description: This effort includes the procurement of hardware for the communications and navigational aids required to support Space Shuttle operations at Vandenberg AFB and for secure operations at Vandenberg AFB, Kennedy Space Center, and Johnson Space Center.

Cost Data

(In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
-	17.0	-	6.4	-	6.7	-	4.3

Basis for FY 1983/1984 Request: In both years funds procurement of communications and check out equipment to support the acquisition and activation of the space shuttle launch and landing capability at Vandenberg AFB.

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OTHER PROCUREMENT, AIR FORCE

ELECTRONIC AND TELECOMMUNICATIONS DATA SHEET

P-1 Line Item: 202

Nomenclature: Combat Supply System (CSS)

Mission/Description: Provides for procurement of small transportable CSS minicomputers which will be programmed to operate the minimum essential supply processes required to support combat forces deployed to austere forward locations. The CSS will be positioned at bases with a wartime deployment mission. In peacetime, the minicomputers will be linked to the home base fixed supply computer as a low speed remote terminal and be used to manage and maintain war/contingency materiel requirements and resources for war/contingency operations. The system will deploy with the tactical unit.

Cost Data (In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
-	.1	-	4.9	-	7.6	-	-

Basis for FY 1983/1984 Request: Procures of 40 CSS minicomputers in FY 1983 for implementation of the USAF Combat Supply System.

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OTHER PROCUREMENT, AIR FORCE

ELECTRONIC AND TELECOMMUNICATIONS DATA SHEET

P-1 Line Item: 203

Nomenclature: Base Level Data Auto Program

Mission/Description: Replacement of obsolete and technically deficient computer system currently supporting 15 major base level functional areas.

Cost Data

(In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
-	-	-	-	-	42.5	-	10.9

Basis for FY 1983/1984 Request: FY 1983 funds will procure two transportable contingency base supply computer systems, survivable computer shelters and the first base replacement computer system. Additional replacement systems will be procured in FY 1984.

OTHER PROCUREMENT, AIR FORCE

ELECTRONIC AND TELECOMMUNICATIONS DATA SHEET

P-1 Line Item: 204

Nomenclature: Satellite Control Facility (SCF)

Mission/Description: The SCF supports system test operations of satellite programs with realtime telemetry, tracking, command and control, and vehicle payload recovery. The system consists of a headquarters at Sunnyvale, CA; a communications satellite calibration site at Camp Parks, CA; twelve antennas at seven worldwide locations; and a Recovery Test Group at Hickam AFB, HA.

Cost Data (In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
-	19.6	-	-	-	17.2	-	26.2

Basis for FY 1983/1984 Request: In both years funds procurement of a number of upgrade and replacements to improve system operations. Among these are Defense Support Program convolutional encoders, exciter replacements, and a Whitesands communication interface in FY 1983 and Defense Meteorlogical Satellite internet, data link terminal ranging, and boresight system replacement in FY 1984.

OTHER PROCUREMENT, AIR FORCE

ELECTRONIC AND TELECOMMUNICATIONS DATA SHEET

P-1 Line Item: 207

Nomenclature: Joint Tactical Information Distribution System

Mission/Description: To provide a time division multiple access, jam resistant, secure, digital information distribution system between the E-3A AWACS and the Tactical Air Control System. It will enable a primary ground command link with such systems as 407L in combat situations utilizing tactical systems, facilities and elements.

Cost Data (In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
-	-	-	26.3	-	25.6	-	21.9

Basis for FY 1983/1984 Request: Procurement of six Adaptable Surface Interface terminals in FY 1983 and six in FY 1984.

OTHER PROCUREMENT, AIR FORCE

ELECTRONIC AND TELECOMMUNICATIONS DATA SHEET

P-1 Line Item: 209

Nomenclature: Consolidated Space Operations Center

Mission/Description: AS part of the Satellite Control Facility Network, will provide tracking, telemetry, and commanding services to orbiting satellite systems and provide a Shuttle Operations and Planning Center for military space shuttle flights.

Cost Data (In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
-	-	-	-	-	20.7	-	83.2

Basis for FY 1983/1984 Request: Initiates procurement of equipment for the Shuttle Operations and Planning Center, Satellite Operations Center, and facility communications.

OTHER PROCUREMENT, AIR FORCE

ELECTRONIC AND TELECOMMUNICATIONS DATA SHEET

P-1 Line Item: 210

Nomenclature: Command Center Processing/Display System (CCPDS)

Mission/Description: CCPDS supports National Command Authority, CINCNORAD, and CINCSAC decision making by providing North American Air Defense (NORAD) at Cheyenne Mountain, Headquarters Strategic Air Command, and the Alternate and National Military Command Centers with near real-time common displays of missile, space, and atmospheric threats; attack characterization; nuclear detonations; damage estimates; and sensor/systems status.

Cost Data (In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
-	-	-	-	-	-	-	3.5

Basis for FY 1983/1984 Request: Procures the first replacement system in FY 1984 which will be used for software conversion and validation.

OTHER PROCUREMENT, AIR FORCE

ELECTRONIC AND TELECOMMUNICATIONS DATA SHEET

P-1 Line Item: 211

Nomenclature: SAMTO Test Ranges Improvement and Modernization

Mission/Description: Provides for improvement and modernization of the Eastern Test Range, Patrick AFB and the Western Test Range, Vandenberg AFB.

Cost Data

(In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
-	-	-	-	-	17.5	-	16.7

Basis for FY 1983/1984 Request: In both years funds procurement of additional capabilities, equipment replacements and correction of deficiencies, and upgrade of communications at both ranges.

OTHER PROCUREMENT, AIR FORCE

ELECTRONIC AND TELECOMMUNICATIONS DATA SHEET

P-1 Line Item: 212

Nomenclature: EMP Hardening

Mission/Description: Acquires survivable systems to confirm a high altitude nuclear electromagnetic pulse (EMP) event and provide highly reliable communications to alert and launch the strategic aircraft force.

Cost Data

(In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
-	-	-	-	-	1.2	-	5.0

Basis for FY 1983/1984 Request: In both years funds procurement of equipment to provide EMP protection and ensure that alerting and launch functions at Strategic Air Command main operating bases are not unacceptably degraded by EMP.

OTHER PROCUREMENT, AIR FORCE

ELECTRONIC AND TELECOMMUNICATIONS DATA SHEET

P-1 Line Item: 214

Nomenclature: Telephone Exchange

Mission/Description: This program replaces existing government owned central telephone office systems at Air Force installations with a standardized electronic telephone switch. It also provides combat essential base users with a protected telephone capability in support of the USAFE communications/air traffic control survivability program and the NATO long term defense program.

Cost Data (In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
-	20.9	-	15.5	-	14.8	-	11.5

Basis for FY 1983/1984 Request: Continuation of the telephone exchange system procurement program for Morbach, Torrejon, Alconbury, Brentwaters, Comiso, Greenham Common and Bitburg in FY 1983 and for Andrews AFB, Scott AFB, and the Ground Launched Cruise Missile main operating base in FY 1984.

OTHER PROCUREMENT, AIR FORCE

ELECTRONIC AND TELECOMMUNICATIONS DATA SHEET

P-1 Line Item: 215/216

Nomenclature: Joint Tactical Communications Program (MYP)

Mission/Description: A joint service effort to develop and acquire tactical communications equipment which can be commonly used in combat. Tri-Tac equipment will provide a digital capability to allow total system security and increased capacity to support the data and voice, point to point switching and transmission needs of deployed Tactical Air Forces worldwide.

Cost Data (In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
-	37.6	-	88.7	-	118.6	-	127.5

Basis for FY 1983/1984 Request: Continues the multiyear procurement with advance procurement of AN/TRC-170 troposcatter radios (FY 83, FY84) in addition to procurement of AN/TTC-39 switches (FY 83), AN/TYC-39 switch (FY 83), AN/UXC-4 tactical digital facsimiles (FY 83, FY 84), AN/TSQ-111 communications nodal control element (FY 83, FY 84), stand alone DGMs (FY83, FY84), and AN/TTC-42 switches(FY84).

OTHER PROCUREMENT, AIR FORCE

ELECTRONIC AND TELECOMMUNICATIONS DATA SHEET

P-1 Line Item: 219

Nomenclature: AFSATCOM

Mission/Description: Provides reliable communications to ensure command and control of the Single Integrated Operational Plan (SIOP) forces in pre, trans, and post-attack environments. The system uses ground and airborne terminals to communicate through transponders carried on various satellites.

Cost Data (In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
-	19.1	-	-	-	10..	-	59.4

Basis for FY 1983/1984 Request: In FY 83 funds terminal card changes to provide increased jam resistance, and four new and one refurbished network monitoring and control terminals. FY 1984 funds will procure SHF terminals for Minuteman launch control centers.

OTHER PROCUREMENT, AIR FORCE

ELECTRONIC AND TELECOMMUNICATIONS DATA SHEET

P-1 Line Item: 220

Nomenclature: Automated Telecommunications Program

Mission/Description: Provides various configurations of Automated Digital Network (AUTODIN) terminal equipment to sustain Air Force capability to process narrative and data message traffic and be compatible with programs such as Inter-Service/Agency Automated Message Processing Exchange.

Cost Data

(In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
-	6.7	-	-	-	17.5	-	19.4

Basis for FY 1983/1984 Request: IN both years procures new AUTODIN terminal hardware to automate telecommunication centers and provide new required capabilities in support of operational users. Current systems are labor intensive and cannot support operational requirements.

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OTHER PROCUREMENT, AIR FORCE

ELECTRONIC AND TELECOMMUNICATIONS DATA SHEET

P-1 Line Item: 221

Nomenclature: Teletypewriter Equipment

Mission/Description: This program will replace obsolete and unsupportable fixed plant and tactical teletypewriters with state-of-the-art equipment.

Cost Data

(In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
-	5.3	-	7.6	-	3.9	-	7.8

Basis for FY 1983/1984 Request: In both years will procure additional fixed plant teletypewriters.

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OTHER PROCUREMENT, AIR FORCE

ELECTRONIC AND TELECOMMUNICATIONS DATA SHEET

P-1 Line Item: 222

Nomenclature: Ground Mobile Force Terminal (GMFT)

Mission/Description: This program will provide highly reliable communications among Air Force Component Headquarters at tactical air bases and elements of the Tactical Air Control System. It is phased to satisfy specific USAF communication needs and to be compatible with the Tri-Tac and Army (GMFT) efforts.

Cost Data (In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
-	15.5	-	26.8	-	51.3	-	71.9

Basis for FY 1983/1984 Request: In both years funds will procure AN/TSC-100A and AN/TSC-94A terminals for elements of the active and guard tactical air forces. Additionally, terminals will be procured for USAFE main and collateral operating bases and for Allied Tactical Operations Centers.

OTHER PROCUREMENT, AIR FORCE

ELECTRONIC AND TELECOMMUNICATIONS DATA SHEET

P-1 Line Item: 223

Nomenclature: Wideband Systems Upgrade

Mission/Description: This program improves the reliability/maintainability/performance of selected Defense Communications Systems wideband transmission facilities. Improvements will provide digital equipment and enhance the quality of communications to support such systems as AUTODIN, AUTOSEVOCOM and command and control networks supporting Unified and Specified Commanders.

Cost Data (In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
-	14.3	-	11.4	-	20.5	-	29.0

Basis for FY 1983/1984 Request: Both years funds will procure equipment to upgrade wideband communication service through programs such as the Digital European Backbone Upgrade, the NATO Long Term Defense Program Interconnects, the Philippine DCS Upgrade, and to support new requirements such as GLCM.

(406)

OTHER PROCUREMENT, AIR FORCE

ELECTRONIC AND TELECOMMUNICATIONS DATA SHEET

P-1 Line Item: 224

Nomenclature: Defense Satellite Comm System (DSCS)

Mission/Description: DSCS, as part of the Defense Communications System, provides SHF satellite communications for secure voice and high data rate transmissions for tri-services users.

Cost Data (In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
-	2.2	-	2.2	-	2.6	-	3.1

Basis for FY 1983/1984 Request: Funds in both years will procure interconnect facilities to interface the DSCS terminals to the Jam Resistant Secure Communications Network. In FY 1983, solid state uninterruptable power systems will be provided for six locations to increase satellite terminal availability.

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OTHER PROCUREMENT, AIR FORCE

ELECTRONIC AND TELECOMMUNICATIONS DATA SHEET

P-1 Line Item: 226

Nomenclature: Minimum Essential Emergency Comm Network

Mission/Description: Provides reliable, secure, long range command and control communications for employment of US forces. The new system will consist of a grid of unmanned, electro-magnetic pulse hardened, jam resistant, groundwave radio relay stations collocated with existing commercial broadcasting towers where feasible.

Cost Data (In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
-	-	-	-	-	-	-	89.5

Basis for FY 1983/1984 Request: Initiates procurement in FY 1984 of the groundwave radio relay system.

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OTHER PROCUREMENT, AIR FORCE

ELECTRONIC AND TELECOMMUNICATIONS DATA SHEET

P-1 Line Item: 227

Nomenclature: DCS Secure Voice Equipment

Mission/Description: Provides equipment to improve and expand secure voice service in the Defense Communication System.

Cost Data (In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
-	7.9	-	-	-	1.0	-	9.1

Basis for FY 1983/1984 Request: In both years procures COMSEC equipment for the Secure Voice Improvement Program and for the interim VINSON/PARKHILL Wireline program.

OTHER PROCUREMENT, AIR FORCE

ELECTRONIC AND TELECOMMUNICATIONS DATA SHEET

P-1 Line Item: 229

Nomenclature: Plan Position Indicator Scope

Mission/Description: Replacement of 1940-50 vintage plan position indicators with solid state, digitally implemented cathode ray tubes which can display radar, beacon, mapping, and other video symbology. They are used in numerous applications for surveillance, identification, intercept control, and traffic control.

Cost Data (In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
-	-	-	5.9	-	7.6	-	-

Basis for FY 1983/1984 Request: In FY1983 procures AN/UPA-62 PPI equipment to replace the AN/UPA-35/48 scopes which are deteriorating and costly to maintain.

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OTHER PROCUREMENT, AIR FORCE

ELECTRONIC AND TELECOMMUNICATIONS DATA SHEET

P-1 Line Item: 230

Nomenclature: Tactical C-E Equipment

Mission/Description: The program provides essential communications equipment to satisfy C3 requirements in support of the tactical air control system and associated combat communications elements.

Cost Data

(In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
-	1.0	-	16.1	-	13.7	-	18.0

Basis for FY 1983/1984 Request: In both years funds will procure AN/GRC-206 Communications Centrals, AN/PRC-113 backpack UHF/VHF-AM radios, and AN/TRC-176 UHF radio systems to support forward air controller and combat control teams. FY 1983 funds will procure quick reaction packages to provide minimum base communication facilities for deployed US forces.

OTHER PROCUREMENT, AIR FORCE

ELECTRONIC AND TELECOMMUNICATIONS DATA SHEET

P-1 Line Item: 232

Nomenclature: Radio Equipment

Mission/Description: Replacement of outdated and nearly obsolete radios for which many manufacturers will no longer supply spare parts. Much of the equipment in use is more than 20 years old.

Cost Data (In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
-	4.5	-	11.3	-	32.5	-	22.6

Basis for FY 1983/1984 Request: FY 1983 funds will continue upgrading the HF Cemetary Network by acquiring and installing new radio voice and teletype systems, continue replacement of tactical air traffic control UHF radios, complete replacement of survival radios, and replace HF manpack transceivers. Both years funds will continue a multiyear effort to replace obsolete fixed HF radio equipment.

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OTHER PROCUREMENT, AIR FORCE

ELECTRONIC AND TELECOMMUNICATIONS DATA SHEET

P-1 Line Item: 233

Nomenclature: Productivity Investments - Telecomm

Mission/Description: Provides funds for capital investment projects which will return all investment costs within four years.

Cost Data (In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
-	-	-	16.1	-	21.7	-	19.1

Basis for FY 1983/1984 Request: IN 1983 funds four productivity projects: starts replacement of COMSEC equipment at 610 locations to reduce maintenance costs; procures minicomputers for hospitals, communications, police functions and others to reduce manpower spaces; and procures a computer for the Community College of the Air Force to reduce student processing time. The COMSEC replacement will continue in FY 1984.

OTHER PROCUREMENT, AIR FORCE

ELECTRONIC AND TELECOMMUNICATIONS DATA SHEET

P-1 Line Item: 234

Nomenclature: TV Equipment

Mission/Description: Provides live television reception for Armed Forces in Greece and Turkey and upgrades existing AF television studio facilities.

Cost Data

(In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
-	-	-	-	-	7.0	-	1.9

Basis for FY 1983/1984 Request: In FY 83 funds live TV for Greece and Turkey. FY 83/84 funds procure equipment to upgrade existing television facilities.

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OTHER PROCUREMENT, AIR FORCE

ELECTRONIC AND TELECOMMUNICATIONS DATA SHEET

P-1 Line Item: 237

Nomenclature: Communications-Electronics Class IV Modifications

Mission/Description: Class IV modifications are defined as: a. Safety modifications required to correct a condition to insure safety of personnel, systems, and/or equipment by eliminating operational or physical hazards. b. Mission essential modifications required to correct deficiencies in systems and equipment that affects reliability and maintainability to the extent that the mission is seriously impeded. c. Logistics modifications which extend the service life by modification to present equipment in lieu of buying new equipment at a much greater cost.

Cost Data

(In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
-	16.9	-	21.7	-	49.5	-	65.5

Basis for FY 1983/1984 Request: To provide funds for modifications to in-service systems and equipment.

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OTHER PROCUREMENT, AIR FORCE

ELECTRONIC AND TELECOMMUNICATIONS DATA SHEET

P-1 Line Item: 240

Nomenclature: Tactical Equipment

Mission/Description: Provides modifications to Tactical Air Control System equipment which provides command and control, and aircraft control and warning to the Tactical Air Force.

Cost Data (In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
-	1.2	-	17.9	-	26.0	-	48.8

Basis for FY 1983/1984 Request: In FY 1983 funds procurement of COMSEC equipment for ground terminals to secure communications and in both years initiates procurement of the Ultra-Low Sidelobe Antenna for the TPS-43E radar to reduce vulnerability to jamming and attack by anti-radiation missiles.

(416)

OTHER PROCUREMENT, AIR FORCE

ELECTRONIC AND TELECOMMUNICATIONS DATA SHEET

P-1 Line Item: 241

Nomenclature: Seek Talk

Mission/Description: Acquires equipment for a class V modification program which will provide the Tactical Air Forces the capability to conduct air-to-air and ground-to-air-to-ground UHF voice communications in a jamming environment.

Cost Data

(In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
-	-	-	12.1	-	10.5	-	23.0

Basis for FY 1983/1984 Request: Continues low rate initial production in both years of Seek Talk modifications to ground radios.

(467)

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OTHER PROCUREMENT, AIR FORCE

OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT

P-1 Line Item: 243

Nomenclature: Base/ALC Calibration Package

Mission/Description: The Base/ALC Metrology and Calibration equipment program provides calibration standards grouped in a series of generic measurement packages or consoles, (Time and Low Frequency, Radio and Microwave Frequency, Temperature-Length-Volume-Vibration, Mass-Pressure-Flow-Accoustics-Optics-Luminous Intensity) to all major Air Force activities having a Base Precision Measurement Equipment Laboratory (BPMEL). These standards are traceable to the National Bureau of Standards. There are 116 BPMELs.

Cost Data (In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
-	4.4	-	4.4	-	6.8	-	9.2

Basis for FY 1983/FY 1984 Request: Provide equipment to enable the Air Force to attain standardized measurement in the calibration and maintenance of critical precision measurement equipment (PME). Precise calibration and measurement is required to attain and maintain the inherent accuracies in weapon system design as well as assure the interoperability of the various weapon systems.

OTHER PROCUREMENT, AIR FORCE

OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT

P-1 Line Item: 258

Nomenclature: Chemical and Biological Defense Program

Mission/Description: This program is for procurement of chemical and biological defense equipment to enhance survivability and enable AF units to conduct operations in a chemical warfare environment.

Cost Data

(In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
-	11.0	-	15.9	-	12.8	-	30.4

Basis for FY 1983/FY 1984 Request: Continues funding for procurement of an aircrew eye-respirator system. This is a new respirator/blower system provides filtered air, valsalva capability, and relieves the performance degradation imposed on aircrew members by the presently used equipment.

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OTHER PROCUREMENT, AIR FORCE

OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT

P-1 Line Item: 260

Nomenclature: Base Mechanization Equipment

Mission/Description: The Base Mechanization Program provides mechanized material handling systems such as automated warehouses, driverless tractors, automatic stock picker vehicles, pneumatic tubes, tow line conveyors, and monorails. The use of mechanized equipment eliminates multiple handling of materials and provides: responsiveness to maximum flexibility at minimum investment cost; simplification of parts inventory and maintenance tasks and safe and efficient operations.

Cost Data

(In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
-	11.1	-	8.2	-	14.6	-	18.8

Basis for FY 1983/FY 1984 Request: The FY 1983 and FY 1984 program includes projects at Air Logistics Centers to automate warehousing and improve storage and retrieval systems. Also included are initial outfitting equipment that relate directly to military construction projects.

420

OTHER PROCUREMENT, AIR FORCE

OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT

P-1 Line Item: 264

Nomenclature: Generators, Mobile Electric

Mission/Description: This is a new budget line for FY 83 that consolidates mobile electric generators previously shown as individual budget lines. FY 81 funding is included in Items Less Than $900,000. FY 82 funding is a combination of 200 KW Generator ($4.4 million), 100 KW Generator ($2.3 million), 60 KW Generator ($1.2 million) and Items Less Than $900,000 ($.3 million). These generators provide primary and/or utility power to alert hangars, communications systems, radar systems, aircraft maintenance shops, hospitals, control towers, maintenance shelters, runway lighting, cold storage plants, sewage disposal systems, beacons, direction finding, Eastern and Western test ranges, and any other applications where primary and backup power is required. Some of the generators are war readiness items.

Cost Data

(In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
-	-	-	-	-	15.9	-	17.4

Basis for FY 1983/FY 1984 Request: Procurement supports both initial shortages and replacement programs. The initial shortages are in support of AN/TRC-97 Radio Sets and increased authorizations. The replacement programs are for overaged, nonsupportable, high repair cost generators that are of a non-DOD standard design. These non-standard generators are being replaced with DOD standard units that provide maximum reliability and parts support for all services.

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OTHER PROCUREMENT, AIR FORCE

OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT

P-1 Line Item: 268

Nomenclature: Power Plant A/E 24 U-8

Mission/Description: This is a lightweight air transportable power plant consisting of two 60/120 KW gas turbine generator sets mounted on a pallet which includes a distribution panel, fuel system and cable storage. The units are designed for mobility and are essential for the operation of communications equipment in deployed locations.

Cost Data (In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
18	5.2	17	5.0	13	3.7	6	1.9

Basis for FY 1983/FY 1984 Request: Provides power units for communications and electronic equipment used by tactical air control systems of the regular forces and the Air National Guard.

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OTHER PROCUREMENT, AIR FORCE

OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT

P-1 Line Item: 270

Nomenclature: Base Procured Equipment

Mission/Description: Bases and units throughout the Air Force, including Air Force Reserve and Air National Guard units, require and are authorized equipment that must be acquired directly from GSA, DLA, one of the other services, or from commercial concerns. The program provides funds for local procurement of this equipment, costing $3,000 or more, which is not centrally procured and managed by the Air Force. The equipment includes: real property maintenance equipment; vehicle maintenance shop equipment; dining hall equipment; replacement real property installed equipment; and administrative support equipment.

Cost Data (In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
-	28.0	-	27.8	-	32.1	-	33.5

Basis for FY 1983/FY 1984 Request: The request provides for procurement of authorized equipment to support the operation of 131 air bases/major installations and 2697 smaller installations, 135,189 buildings, 621 dining facilities, and over 100,000 vehicles.

OTHER PROCUREMENT, AIR FORCE

OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT

P-1 Line Item: 271

Nomenclature: Medical and Dental Equipment

Mission/Description: This program provides medical and dental equipment for the Air Force Medical Service in support of a world-wide comprehensive health care system. It supports hospitals, clinics, a global aeromedical evacuation system, physiological training units, and specialized medical and dental training facilities and laboratories.

Cost Data

(In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
-	30.3	-	46.5	-	38.3	-	54.1

Basis for FY 1983/FY 1984 Request: Provides for replacement of equipment beyond economical repair; modernization of obsolete equipment; initial outfitting equipment for new, altered or expanded health care facilities, and procurement of War Readiness equipment.

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OTHER PROCUREMENT, AIR FORCE

OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT

P-1 Line Item: 277

Nomenclature: Pallet, Air Cargo, 108" x 88"

Mission/Description: The HCU-6/E air cargo pallet is constructed on an aluminum rail (frame) with aluminum skins thermally bonded to a balsa wood core. This pallet is designed for operation in the 463L cargo handling system which matches specialized material handling equipment to the internal aircraft cargo system of the C-5, C-141, C-130, KC-10 and CRAF aircraft. They provide a means to expedite cargo handling and rapid turnaround of aircraft in both peace and war environments.

Cost Data

(In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
12,000	9.9	17,150	14.8	15,865	14.8	3,000	3.7

Basis for FY 1983/FY 1984 Request: Required procurement quantities are for WRM and replacement of condemnations.

(425)

OTHER PROCUREMENT, AIR FORCE

OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT

P-1 Line Item: 278

Nomenclature: Net Assemblies 108x88

Mission/Description: The net assembly consists of two side nets and one top net. It is used to secure air shipped cargo to the 108"x 88" pallet. The nets are constructed of nylon straps assembled in the form of webs with adjusting tie down snaps and buckles. They are used in 463-L equipped cargo aircraft: C-130, C-141, C-5, and KC-10.

Cost Data

(In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
-	2.9	-	3.5	-	7.5	-	4.1

Basis for FY 1983/FY 1984 Request: Required procurement quantities are for WRM and replacement of condemnations.

OTHER PROCUREMENT, AIR FORCE

OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT

P-1 Line Item: 281

Nomenclature: Mobility Containers

Mission/Description: Mobility container sets consists of six fiberglass reinforced plastic containers of dimensions outlined below. The containers are designed for use with the standard Air Force 463-L pallet system used with the C-141, C-5, and C-130 aircraft, and can also be used with Civilian Reserve Air Fleet (CRAF) aircraft. Primary use of the containers is for deployment of War Readiness Spares Kits (WRSK) and small mobility equipment items. Each set contains the following containers: a. 1 ea 84" X 60" container, b. 1 ea 84" X 42" X 30" container, c. 2 ea 62" X 42" X 60" containers, d. 2 ea 62" X 42" X 30" containers.

Cost Data

(In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
-	-	-	-	-	4.1	-	4.0

Basis for FY 1983/FY 1984 Request: Provides for the replacement of containers that were designed for use with B-29 and B-50 aircraft (i.e. carried in bomb bay), and when used with the 463-L pallet system waste up to 50 percent of the usable space because of sizing incompatibility. By contrast, the new mobility containers are tailored to the 463-L system and allow maximum use of available space, thus reducing airlift requirements.

(437)

OTHER PROCUREMENT, AIR FORCE

OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT

P-1 Line Item: 282

Nomenclature: Bladder, Fuel

Mission/Description: This 50,000 gallon collapsible bladder tank serves as a reservoir for the R-14 portable hydrant refueling system to fuel aircraft at forward operating locations. Each end has fittings for pumping fuel into or out of the tank.

Cost Data (In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
-	-	-	-	292	5.1	111	2.0

Basis for FY 1983/FY 1984 Request: The procurement program for this item consists of mainly replacement for overage inventory, with a small number of initial shortages. Maximum life expectancy for this item is five years. All of the 50,000 gallon bladders in our inventory have exceeded their life expectancy and are prone to leaks and seam separation. New 50,000 tanks are needed to prevent fuel spills which could damage the environment, create safety hazards, and waste thousands of dollars of fuel.

OTHER PROCUREMENT, AIR FORCE

OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT

P-1 Line Item: 283

Nomenclature: Tactical Shelter

Mission/Description: The S-530 tactical maintenance shelters provide the space and the clean environment required for combat communications and Tactical Air Control units to maintain sophisticated communications - electronics equipment in the field. They contain circuits for 60 or 400 Hertz and 28 volt power necessary for maintaining and testing electronic communication and radar equipment. The shelters are air transportable and contain lighting and environmental control units required to provide suitable conditions for maintenance of electronics equipment. Also included are standard NAVSTAR shelters required for mobile avionics intermediate support shops. Shelters are approved by the DOD Joint Committee on Tactical Shelters.

Cost Data

(In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
33	5.1	10	1.7	64	15.3	54	9.8

Basis for FY 1983/FY 1984 Request: Provides for the procurement of shortages of S-530 shelters for the Air National Guard and NAVAIR shelters for the F-16 mobile avionics intermediate support shops.

OTHER PROCUREMENT, AIR FORCE

OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT

P-1 Line Item: 285

Nomenclature: Productivity Enhancement

Mission/Description: This program provides funds for the Fast-Payback Capital Investment Program (FASCAP). To qualify for a FASCAP, equipment must cost at least $3,000 but not more than $100,000 per project and an auditable savings which amortizes the investment cost in two years must be demonstrated.

Cost Data

(In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
-	4.3	-	9.4	-	13.8	-	23.6

Basis for FY 1983/FY 1984 Request: The FASCAP program affords the Air Force opportunities to increase productivity and reduce operating costs through the purchase of the latest state-of-the-art equipment in relatively short periods of time.

OTHER PROCUREMENT, AIR FORCE

OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT

P-1 Line Item: 286

Nomenclature: Productivity Investment

Mission/Description: Provide funds for the productivity investment program, a program to purchase items costing over one hundred thousand dollars that enhance productivity and reduce operating costs. Equipment purchased is identified by organizations throughout the Air Force with the commensurate savings and amortization data specifically identified. Amortization must be achieved within four years and items procured must be commercially available so that they may be put into use in the minimum time.

Cost Data

(In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
-	4.3	-	8.6	-	7.9	-	2.7

Basis for FY 1983/FY 1984 Request: Provides funding for projects that qualify under the productivity investment program criteria.

(431)

OTHER PROCUREMENT, AIR FORCE

OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT

P-1 Line Item: 287

Nomenclature: Mobility Equipment

Mission/Description: Continues the program initiated in FY 1982 to procure mobility equipment for the Rapid Deployment Force (RDF) in the Southwest Asia and CONUS tactical fighter units deploying to NATO. Existing inventories of equipment cannot support the Southwest Asia scenario. Additional equipment must be procured to support the deploying force. NATO equipment is being procured to reduce reliance on strategic airlift during a NATO conflict.

Cost Data

(In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
-	-	-	124.3	-	97.4	-	117.5

Basis for FY 1983/FY 1984 Request: Provides funding for procurement of general purpose and expendable maintenance shelters, generators, aircraft arresting systems, rapid runway repair sets, portable hydrant refueling systems, housekeeping support, water purification sets, refrigerators, and laundry equipment for the RDF. Provides funds for the procurement of floodlights, generators, servicing carts, and portable hydrant refueling systems for NATO prepositioning. Equipment is required to support the RDF scenario and reduce reliance on strategic airlift fot both the RDF and NATO contingencies.

OTHER PROCUREMENT, AIR FORCE

OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT

P-1 Line Item: 292

Nomenclature: Scientific/Technical Intelligence

Mission/Description: This program provides data reduction, photo processing, and printing equipment for the Foreign Technology Division (FTD). FTD also supports Air Force and DOD inputs to the National Intelligence Estimates (NIEs), maintains the DOD scientific and Technical (S&T) intelligence reference library, and acts as DOD executive agent for radar and infrared intelligence data processing.

Cost Data

(In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
-	3.0	-	3.0	-	5.6	-	6.7

Basis for FY 1983/FY 1984 Request: To provide improved data analysis and production capabilities, replace old and obsolescent equipment, and acquire the test and calibration instruments necessary to operate and maintain existing systems.

OTHER PROCUREMENT, AIR FORCE

OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT

P-1 Line Item: 295

Nomenclature: Air Force Technical Application Center

Mission/Description: This program supports the Atomic Energy Detection System operated by the Air Force Technical Application Center. It provides the primary national technical means for verifying compliance of signatory states with terms of the Limited Test Ban Treaty, Threshold Test Treaty, Peaceful Nuclear Explosion Treaty and the Comprehensive Test Ban Treaty currrently under negotiation.

Cost Data (In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
-	5.1	-	13.1	-	15.8	-	9.7

Basis for FY 1983/FY 1984 Request: Provides a variety of equipment required for seismic,

OTHER PROCUREMENT, AIR FORCE

OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT

P-1 Line Item: 296

Nomenclature: Photo Processing/Interpretation System

Mission/Description: Tactical forces require mobile photo reconnaissance processing facilities that can effectively deploy in support of tactical reconnaissance operations to accomplish original film processing, duplication/reproduction and production dissemination.

Cost Data (In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
-	-	-	5.6	-	11.1	-	6.3

Basis for FY 1983/FY 1984 Request: The WS-430B enhancement program will reduce/eliminate major deficiencies in the existing system for the active force and Air National Guard (ANG) Tactical Reconnaissance Squadrons (TRS). Shelters will be refurbished, wet film processing rate will be doubled with reduced water requirement, wet duplication will be replaced with dry silver processing and pollutant discharge will be reduced. In addition ANG facilities will be equipped with a Report Entry/Edit station to speed up photo exploitation and product distribution. The FY 1983 program also acquires Imagery Interpretative Segment depot overhaul manuals, peripheral access/output devices for the Display Control/Storage and Retrieval System, and upgrades three Active Force and two ANG WS-430B systems.

OTHER PROCUREMENT, AIR FORCE

OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT

P-1 Line Item: 300

Nomenclature: Industrial Preparedness

Mission/Description: This program provides the resources required for all plans, actions, or measures necessary to establish or maintain an industrial base, both government-owned and privately-owned to support current, wartime or other contingency military requirements. It includes industrial preparedness planning, modernization and maintenance on government-owned production facilities, and a manufacturing technology program which is designed to improve productivity and lower costs.

Cost Data (In Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
-	10.1	-	9.8	-	10.5	-	11.2

Basis for FY 1983/FY 1984 Request: The request represents a continuing effort to support industrial preparedness objectives through demonstration of manufacturing technology advancements and industrial preparedness planning. FY 1983 projects address chemicals used in munitions, fabrication of electronic components, and non-metallic portable shelters.