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SAR PROGRAM ACQUISITION COST SUMMARY  
As of DEC 31 80  
(\$ In Millions)

Weapon System	Status	Program Base Year	DEVELOPMENT ESTIMATE <sup>a/</sup>			COST CHANGES TO DATE				CURRENT ESTIMATE			COST CHANGES THIS QUARTER			% COST GROWTH		Weapon System
			Program Cost			Quantity Changes In Program Base Year Dollars	Other Changes In Program Base Year Dollars	Actual and Projected Escalation Total	Program Cost			Program Changes In Base Year Dollars	Actual and Projected Escalation Total	Base Year Adjust for Quantity	Total Adjust for Quantity			
			Program Base Year Dollars	Projected Escalation	Total				Program Base Year Dollars	Actual and Projected Escalation Total	Total							
CONGRESSIONAL SAR SUBMISSION																		
ARMY																		
PATRIOT (Fire Sections)	Proc	1972	4239.6	1999.9	5240.5	-1384.1	883.7	3583.1	3082.7	3739.2	4584.0	9323.2	65.3	349.4	405.7	31	145	PATRIOT (Fire Sections)
PERSHING II	Dev	1979	1186.0	385.0	1571.0	-	52.4	202.2	254.6	1238.4	587.2	1825.6	16.4	44.8	61.2	4	16	PERSHING II
HELLFIRE	Dev	1975	508.2	226.9	735.1	-0.1	274.6	543.8	918.3	782.7	870.7	1653.4	219.8	411.7	631.5	54	124	HELLFIRE
CH-47 MODERNIZATION	Proc	1975	882.5	680.3	1562.8	-	110.3	946.8	1057.1	992.8	1527.1	2519.9	-4.7	245.8	242.1	12	68	CH-47 MODERNIZATION
UH-50A (BLACK HAWK)	Proc	1971	1941.7	355.6	2307.3	-20.2	234.1	4059.3	4273.2	2155.6	4424.9	6580.5	74.3	518.7	593.0	12	188	UH-50A (BLACK HAWK)
AH-64 (AAH)	Dev	1972	1875.7	1882.4	3758.1	-	335.3	2505.2	2840.5	2211.0	4387.6	6598.6	120.2	622.1	742.3	18	76	AH-64 (AAH)
SOTAS (Division Sets)	Dev	1979	912.3	370.5	1282.8	-247.0	550.7	750.1	1163.8	1326.0	1120.6	2446.6	545.3	748.3	1393.6	99	175	SOTAS (Division Sets)
FVS (MICV)	Proc	1972	474.6	251.8	726.4	1015.6	2117.9	9287.4	12420.9	3608.1	9539.2	13147.3	1131.3	4205.6	5337.9	142	248	FVS (MICV)
XM-1	Proc	1972	2392.8	2386.6	4779.4	1578.3	1925.7	10671.8	14175.8	5895.8	13058.4	18955.2	1426.3	4444.8	5871.1	48	98	XM-1
ROLAND (Fire Units)	Proc	1975	838.0	281.5	1119.5	-395.6	462.5	189.0	255.9	904.9	470.5	1375.4	-331.7	-231.7	-563.4	105	275	ROLAND (Fire Units)
COPPERHEAD (CLGP)	Proc	1975	842.9	397.8	1240.7	-400.7	210.7	223.6	33.6	652.9	521.4	1274.3	24.7	86.9	111.6	48	113	COPPERHEAD (CLGP)
DIVAD Gun	Dev	1978	2205.3	979.5	3185.8	59.5	3.9	1850.1	1923.5	2269.7	2839.6	5109.3	15.5	976.3	991.8	0	57	DIVAD Gun
MLRS (GSRs)	Proc	1978	2231.6	1222.4	3454.0	23.8	-51.0	795.6	769.4	2204.4	2019.0	4223.4	41.9	222.1	264.0	-2	21	MLRS (GSRs)
M-198	Proc	1972	111.1	10.8	121.9	-22.4	18.1	55.3	52.0	106.8	57.1	173.9	-31.9	-50.1	-82.0	20	104	M-198
NAVY																		
E-2C	Proc	1968	531.4	54.8	586.2	804.5	495.3	1890.3	3180.1	1821.2	1945.1	3765.3	139.0	354.3	503.3	35	53	E-2C
F-14A	Proc	1969	5391.4	774.6	6166.0	1116.4	1655.2	3020.0	5791.6	8153.0	3794.6	11957.6	126.9	167.1	294.0	25	55	F-14A
F-18	Proc	1975	8016.6	4858.7	12875.3	3979.6	4651.8	17273.5	25014.9	15758.0	22132.2	37890.2	2517.4	5650.5	8177.9	42	92	F-18
P-3C	Proc	1968	1294.2	-	1294.2	1409.8	927.9	5280.5	7518.2	3531.9	5280.5	8812.4	575.0	2310.0	2885.0	31	57	P-3C
LAMPS MK III	Dev	1976	2396.7	1510.9	3907.6	40.8	732.8	2023.9	2797.5	3170.3	3534.8	5705.1	513.8	799.2	1304.0	30	68	LAMPS MK III
CAPTOR	Proc	1971	303.6	25.6	329.2	-75.5	402.8	877.8	1285.1	710.9	903.4	1614.3	443.4	745.6	1189.0	212	327	CAPTOR
HARM	Dev	1978	977.8	380.1	1357.9	-116.3	218.4	813.4	915.5	1079.9	1193.5	2273.4	-8.9	279.5	270.6	25	120	HARM
HARPOON	Proc	1970	795.0	236.8	1031.8	-54.4	327.4	848.9	1121.9	1069.0	1085.7	2153.7	-4.7	-178.0	-182.7	44	109	HARPOON
PHOENIX	Proc	1963	536.4	-	536.4	183.4	415.2	1531.1	2129.7	1135.0	1531.1	2656.1	175.3	469.4	644.7	129	129	PHOENIX
SIDEWINDER AIM-9M	Proc	1976	179.1	154.3	333.4	-71.1	-10.5	-80.8	-162.4	97.5	73.5	171.0	-29.1	-24.9	-54.0	-10	-8	SIDEWINDER AIM-9M
SPARROW AIM-7M	Proc	1978	533.4	261.5	894.9	2.5	-28.4	217.1	191.2	607.5	478.6	1085.1	-51.5	23.2	-28.3	-4	21	SPARROW AIM-7M
TOMAHAWK	Dev	1977	1805.4	616.5	2422.9	-423.2	459.3	465.6	501.7	1842.5	1082.1	2924.6	305.4	339.2	644.6	33	52	TOMAHAWK
TRIDENT	Proc	1974	11294.4	1135.7	12431.1	3545.1	1435.3	14319.3	19300.7	16275.8	15456.0	31731.8b/	837.4	2143.1	2980.5	10	37	TRIDENT
5-inch Guided Proj	Dev	1977	349.3	151.2	500.5	-31.0	109.4	271.3	349.7	427.7	422.5	850.2	205.2	290.3	495.5	34	63	5-inch Guided Proj
SURTASS	Dev	1975	205.9	53.4	259.3	87.3	149.8	399.8	536.9	443.0	453.2	896.2	103.4	199.8	303.2	51	83	SURTASS
TACTAS	Dev	1976	426.6	174.5	601.1	-47.9	164.9	452.6	559.6	543.6	627.1	1170.7	-16.4	-7.1	-23.5	44	105	TACTAS
SSN-588	Proc	1971	5126.8	620.7	5747.5	1904.0	-185.9	6891.4	8508.5	6843.9	7512.1	14355.0	432.2	1797.2	2229.4	-3	27	SSN-588
CG-47 (DDG-47)	Proc	1978	9013.7	5069.8	14083.5	2059.2	1185.0	5213.3	8467.5	12267.9	10283.1	22551.0	1748.6	2857.2	4615.8	11	24	CG-47 (DDG-47)
FFG-7	Proc	1973	2620.4	624.1	3244.5	-497.0	1852.3	4181.0	5546.3	3985.7	4805.1	8790.8	-852.6	-1821.2	-2673.8	88	413	FFG-7
PHM	Proc	73/74	644.6	81.6	726.2	-482.7	122.7	47.1	-312.9	284.6	128.7	413.3	0.1	-0.3	-0.2	76	114	PHM
CVN-71	Proc	1979	1808.3	612.3	2420.6	-	21.3	142.8	164.1	1829.6	755.1	2584.7	21.3	-49.1	-27.8	1	7	CVN-71
AIR FORCE																		
A-10	Proc	1970	1768.4	721.3	2489.7	-54.8	435.9	1885.7	2257.8	2140.5	2607.0	4747.5	-392.6	-896.7	-1289.3	26	110	A-10
F-15	Proc	1970	5988.1	1367.1	7355.2	-	1508.9	5407.0	6915.9	7497.0	6774.1	14271.1	-1.0	71.4	70.4	25	94	F-15
F-16	Proc	1975	4376.8	1677.7	6054.5	2945.7	2416.4	10488.2	15851.3	9739.9	12165.9	21905.8	804.1	2389.6	3193.7	33	92	F-16
E-3A (AWACS)	Proc	1970	2150.9	510.7	2661.6	-62.5	437.1	1417.9	1792.5	2525.5	1928.6	4454.1	10.5	85.1	96.6	21	64	E-3A (AWACS)
E-4 (AABNCP)	Dev	1974	442.9	41.4	484.3	-52.0	230.4	402.1	580.5	521.3	443.5	1064.8	-67.7	-100.7	-168.4	59	152	E-4 (AABNCP)
EF-111A	Proc	1973	413.4	218.5	631.9	-	271.9	525.7	797.6	685.3	744.2	1429.5	20.0	51.3	71.3	66	126	EF-111A
PLSS	Dev	1977	678.2	276.3	954.5	-394.9	5.7	-137.5	289.0	138.8	427.8	-110.1	-105.0	-215.1	2	42	PLSS	
HARM (AGM-88)	Dev	1978	704.0	348.0	1052.0	524.0	162.9	1625.0	2411.9	1490.9	1973.0	3453.9	534.1	1065.6	1600.7	12	24	HARM (AGM-88)
MAVERICK (IIR)	Dev	1975	995.1	597.8	1592.9	495.6	153.6	2159.0	2808.2	1544.3	2755.8	4401.1	582.6	1285.0	1868.6	10	41	MAVERICK (IIR)
SIDEWINDER AIM-9M	Proc	1976	152.0	125.6	277.6	85.2	43.3	179.7	308.2	280.5	305.3	585.8	127.4	179.2	306.6	18	23	SIDEWINDER AIM-9M
SPARROW AIM-7M	Proc	1978	280.3	82.9	363.2	451.8	39.7	560.6	1052.1	781.8	543.5	1425.3	499.8	546.4	1046.2	5	11	SPARROW AIM-7M
DSCS III (Space Seg)	Dev	1977	631.1	262.5	893.6	-	92.6	265.3	347.9	713.7	527.8	1241.5	65.6	71.0	137.6	13	39	DSCS III (Space Seg)
NAVSTAR GPS	Dev	1979	1558.1	748.6	2306.7	-	-	-	-	1558.1	748.6	2306.7	-	-	-	-	-	NAVSTAR GPS
ALCM	Proc	1977	3129.1	1054.9	4184.0	-15.1	450.0	1440.6	1875.5	3564.0	2495.5	5959.5	302.9	427.0	729.9	14	45	ALCM
GLCM	Dev	1977	1053.6	473.6	1527.2	-129.9	494.5	831.6	1196.2	1418.2	1395.2	2723.4	273.8	326.0	599.8	54	109	GLCM
PROGRAM COST SUMMARY																		
ARMY			20643.3	10442.0	31085.3	207.1	7238.9	35775.3	43221.3	28089.3	46217.3	74306.6	3413.7	12587.7	16001.4	35	110	ARMY
NAVY			54352.0	17398.1	71750.1	12443.5	15092.0	55079.9	93515.4	81887.5	83478.0	165355.5	7181.2	15366.0	23547.2	23	58	NAVY
AIR FORCE			24322.0	8506.9	32828.9	3894.1	6733.9	27050.9	37678.9	34950.0	35557.8	70507.8	2650.4	5398.2	8048.6	24	70	AIR FORCE
GRAND TOTAL			99317.3	35347.0	135564.3	16544.7	29054.8	128906.1	174515.6	144926.8	165253.1	310179.9	13245.3	34351.9	47597.2	25	71	GRAND TOTAL

a/ The estimate of Program Acquisition Costs developed at the time the Secretary of Defense approved full-scale engineering development (DSARC II).

b/ TRIDENT Current Estimate excludes TRIDENT (C-4) Backfit Program Costs estimated at \$4,206.7M as of December 31, 1980.

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## SELECTED ACQUISITION REPORTS - HIGHLIGHTS As of December 31, 1980

Selected Acquisition Reports on 47 major acquisitions transmitted to the Congress for December 31, 1980 reflect a total Current Estimate of Program Acquisition Cost of \$310,179.9M. This compares to a Current Estimate of \$261,763.4M for 46 major acquisitions reported in the September 30, 1980 quarter.

The Changes in Current Estimate between September and December 1980 are summarized below:

	Current Estimate (\$ Millions)
September 1980 (46 SARs)	\$261,763.4
Minus Deleted SARs (AIM-9L and AIM-7F)	- 3,485.1
Plus Added SARs (AIM-9M, AIM-7M and NAVSTAR GPS)	+ 4,304.4
Adjusted 47 SARs	262,582.7
December 1980 (47 SARs)	310,179.9
<b>Net Changes</b>	<b>\$ 47,597.2</b>
<b>Reasons for Changes:</b>	
Quantity Changes	+ 3,817.7
Schedule Changes	+ 529.5
Engineering Changes	+ 1,361.8
Estimating Changes	+ 5,877.5
Support Changes	+ 1,651.5
Other Changes	+ 7.3
<b>Total in Base-Year Constant Dollars</b>	<b>\$+13,245.3</b>
Economic Escalation	+ 3,431.8
Program Change Related Escalation	+30,920.1
<b>Total</b>	<b>\$+47,597.2</b>

The net increase between September and December 1980 is \$47.6 billion. Of the 44 programs reported in September and December 1980, the net increase is \$46.2 billion. The difference of \$0.4 billion represents current quarter changes to the Navy and Air Force SIDEWINDER (AIM-9M) and SPARROW (AIM-7M) programs. The \$46.2 billion (18%) increase includes \$16.0 billion (27%) for the Army, \$23.5 billion (17%) for the Navy, and \$6.7 billion (11%) for the Air Force. The overall cost for the 47 SAR programs is \$310.2 billion.

Of the \$47.6 billion increase being reported this quarter, \$19.4 billion (41%) is attributable to three programs - the F/A-18, XM-1 tank, and Fighting Vehicle Systems. All three are reflecting large increases due to differences between Government inflation rate projections and current experience. Details are summarized below:

1. **F/A-18** - Program costs increased by \$8,177.9M, from \$29,712.3M to \$37,890.2M, due to (1) the application of higher anticipated escalation rates in program outyears (\$+451.0M), (2) procurement schedule stretchout (\$+907.0M), (3) support increase as a result of revised basing plan and repricing of support program (\$+728.7M), and (4) reestimate of the R&D and procurement programs (\$+6,091.2M). Of the \$6,091.2M estimating increase, \$3,855.8M represents the difference between Government inflation projections and actual experience on the FY 1979-1981 production contracts and proposals. As a consequence, support purchases have been deferred and seven aircraft are being dropped from the FY 1981 buy. Both actions contribute significantly to the schedule and support increases identified above.

2. **XM-1** - Program costs increased by \$5,871.1M, from \$13,084.1M to \$18,955.2M, due to (1) the application of higher anticipated escalation rates in the program outyears (\$+77.5M), (2) rescheduling of the production units due to budget constraints (\$+412.3M), (3) revised R&D RFP engineering effort (\$-8.9M), (4) increased support cost related to DT/OT III test activities and increased cost of initial spares and training (\$+314.5M), and (5) revised R&D estimate associated with eventual integration of the 120mm gun (\$+65.3M), and (6) revised current vehicle production costs (\$+5,010.4M). Of the \$5,010.4M production cost increase, \$2,070.7M is the difference between the Government inflation projections and actual experience on the FY 1979-1981 production contracts and proposals. As a result of the current increased unit cost, the FY 1979 procurement program has been reduced by 20 tanks and negotiations are under way to reduce the FY 1980 program by up to 45 tanks. These restructuring efforts are responsible for the \$412.3M schedule increase. Further restructuring plans for FY 1981-1983 are under way.

3. **Fighting Vehicle Systems** - Program costs increased by \$5,337.9M, from \$7,809.4M to \$13,147.3M, due to (1) the application of higher anticipated escalation rates for program outyears (\$+179.0M), (2) addition of 11.4M rounds of 25mm ammunition (\$+517.9M), (3) rescheduling of the vehicle production units (\$+414.3M), (4) engineering changes to accommodate improved TOW and nuclear hardening (\$+796.3M), (5) increased costs of the Test Measurement Diagnostic equipment and initial provisioning (\$+681.0M), and (6) reestimate of the procurement program (\$+2,749.4M). Of this \$2,749.4M estimating increase, \$2,324.6M is the difference between Government and contractor inflation rates for the outyears.

In summary, at least half of the \$19.4 billion growth in these three programs can be directly or indirectly attributed to past policies regarding inflation projections. Differences in Government versus actual and predicted contractor inflation experience accounts for \$8.3 billion of the total increase in these three systems. Funding shortfalls caused in part by low prior estimates of inflation contributed another \$2.0 billion in schedule and support increases.

Other significant cost changes and program highlights reported in the SARs this quarter are summarized below:

1. **HELLFIRE** - Program costs increased by \$631.5M, from \$1,021.9M to \$1,653.4M, due to (1) the application of higher anticipated escalation rates in the program outyears (\$+19.5M), (2) increase of 20 R&D seekers and 240 production launchers (\$+7.0M), (3) rescheduling of procurement program as a result of FY 1982, FY 1983, and FY 1984 funding decrements (\$+178.4M), (4) engineering changes to the missile, warhead, and launcher (\$+88.0M), (5) reestimation of missile and launcher costs (\$+318.2M), and (6) increase in support costs (\$+20.4M).

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2. SOIAS - Program costs increased by \$1,393.6M, from \$1,053.0M to \$2,446.6M, due to (1) the application of higher anticipated escalation rates in the program outyears (\$+20.3M), (2) reduction of DT/OT II hardware (\$-21.5M), (3) 21-month stretchout of development program and 2-year delay of production award (\$+285.5M), (4) engineering change of ground station modular design (\$+26.4M), (5) reestimate of R&D and production program based on current R&D experience (\$+979.3M), and (6) increase in initial spares and other support costs (\$+103.6M).
3. DIVAD Gun - Program costs increased by \$991.8M, from \$4,117.5M to \$5,109.3M, due to (1) the application of higher anticipated escalation rates in the program outyears (\$+95.0M), (2) reprofiling of procurement program due to funding constraints in FY 1982-FY 1987 which resulted in a 5-year program stretchout (\$+856.2M), (3) estimating change attributable to low quantity penalties, chassis and ammunition facilities increase (\$+13.2M), and (4) higher peculiar support equipment and spares costs (\$+27.4M).
4. P-3C - Program costs increased by \$2,885.0M, from \$5,927.4M to \$8,812.4M, due to (1) the application of higher anticipated escalation rates for the program outyears (\$+55.4M), (2) addition of 42 aircraft (\$+2,177.6M), (3) stretchout of the aircraft procurement program (\$+409.1M), (4) estimating changes of \$+6.0M, and (5) additional support requirement for the new 42 aircraft (\$+236.9M).
5. LAMPS MK III - Program costs increased by \$1,304.0M, from \$5,401.1M to \$6,705.1M, due to (1) the application of higher anticipated escalation rates (\$+73.6M), (2) the addition of four ship systems and installation for backfit (\$+81.5M), (3) revision of both the aircraft and ship installation schedules (\$+42.6M), (4) engineering changes of (\$+184.4M), (5) estimating changes to include aircraft manufacturing process changes, refinement of GFE, airframe, and contractor furnished equipment costs (\$+604.3M), and (6) refinement of aircraft production support, aircraft spares and other support estimates (\$+317.6M).
6. CAPTOR - Program costs increased by \$1,189.0M, from \$425.3M to \$1,614.3M, due primarily to the restoration of funds for the procurement of 3,273 systems. The previous decision to terminate the program in FY 1981, was reversed during formulation of the FY 1982 budget.
7. PHOENIX - Program costs increased by \$644.7M, from \$2,021.4M to \$2,666.1M, due to (1) an increase of 661 missiles (\$+393.3M), (2) the addition of ECCM expansion program (\$+21.8M), (3) repricing of the procurement program (\$+127.9M), (4) repricing of support and addition of another program year (\$+52.4M), and (5) the inclusion of 150 AIM-54A buy back of undelivered Iranian FMS missiles (\$+40.7M), and (6) the application of higher anticipated escalation rates in the program outyears (\$+8.6M).
8. TOMAHAWK - Program costs increased by \$644.6M, from \$2,280.0M to \$2,924.6M, due to (1) the application of higher anticipated escalation rates in the program outyears (\$+20.0M), (2) addition of 135 missiles (\$+198.1M), (3) reprofiling of the procurement schedule for the 574 missiles (\$-12.8M), (4) engineering effort for the improved booster, reactive warhead and defensive countermeasure (\$+38.9M), (5) additional costs to complete nuclear full-scale engineering development through FY 1984 and for warranty specification in production (\$+187.9M), and (6) development of peculiar support software and revised procurement support costs (\$+212.5M).
9. IRIDENI - Program costs increased \$2,980.5M, from \$28,751.3M to \$31,731.8M, due to (1) the application of higher anticipated escalation rates in the program outyears (\$-6.7M), (2) additional ship and associated missiles (\$+2,749.3M), and (3) estimating changes of \$+237.5M.
10. 5-INCH GP - Program costs increased by \$495.5M, from \$354.7M to \$850.2M, due to (1) the application of higher anticipated escalation rates in the program outyears (\$+5.7M), (2) the addition of 7,468 rounds (\$+288.5M), and (3) estimating changes of \$+201.3M.
11. SSN-688 CLASS - Program costs increased by \$2,229.4M, from \$12,126.6M to \$14,356.0M, due to (1) the application of higher anticipated escalation rates in the program outyears (\$+353.3M), (2) addition of three ships (\$+2,446.6M), (3) postponement of construction of one ship to FY 1985 (\$+45.8M), (4) configuration changes associated with the new ships and installation of the vertical launch systems beginning with the FY 1980 ships (\$+394.7M), (5) estimating component of the additional ships, including a total of \$+21.8M for estimating changes related to the cost of the second FY 1981 ship added by Congress for which DD 1415 Reprogramming Action is planned (\$-1,015.6M), and (6) additional construction projects related to the SSN-688 program (\$+4.6M).
12. CG-47 - Program costs increased by \$4,615.8M, from \$17,935.2M to \$22,551.0M, due to (1) the application of higher anticipated escalation rates in the program outyears (\$+358.5M), (2) an increase of two ships (\$+2,258.3M), (3) increased costs due to schedule changes (\$+506.2M), (4) combat system engineering changes (\$+250.8M), (5) estimating changes (\$+1,104.7M), and (6) support costs associated with the addition of two ships (\$+137.3M).
13. FFG-7 - Program costs decreased by \$2,673.8M, from \$11,464.6M to \$8,790.8M, due to (1) the application of higher anticipated escalation rates in the program outyears (\$+89.2M), (2) deletion of eight ships (\$-2,688.7M), (3) engineering changes reflecting deletion of IACIAS in FY 1982 due to equipment nonavailability (\$-7.2M), (4) estimating decreases due to refinement of estimates (\$-88.6M), and (5) increased support costs due to battle spares allowance changes (\$+21.5M). These changes do not reflect adjustments now deemed to be required by Navy to install LAMPS MK III on the FY 1979-FY 1981 ships.
14. A-10 - Program costs decreased by \$1,289.3M, from \$6,036.8M to \$4,747.5M, due to (1) the application of higher anticipated escalation rates in the program outyears (\$+76.8M), (2) deletion of 138 aircraft from the program (\$-592.0M), (3) schedule development and quantity reduction (\$-529.3M), (4) engineering changes to incorporate development and production of two-seat configuration, deletion of two-seat trainer, LANTIRN flight test and the component of the quantity reduction (\$-55.6M), (5) estimating changes (\$-43.7M), and (6) support changes to include deletion of simulators, reestimates of support equipment and initial spares (\$-145.5M).
15. F-16 - Program costs increased by \$3,193.7M, from \$18,712.1M to \$21,905.8M, due to (1) the application of higher anticipated escalation rates in the program outyears and reestimate of currency exchange rate loss (\$+398.9M), (2) production rate change from 10 aircraft to 8 aircraft per month commencing with the FY 1982 program (\$+1,063.2M), (3) development and integration of an advanced fire control radar, incorporation of AMRAAM, LANTIRN and ASPJ capability and deletion of Multiple Stores Ejector Rack (\$+1,450.8M), (4) reestimate of flyaway costs and incorporation of Egyptian FMS (\$-447.1M), and (5) additional flight test and test support, reestimate of initial spares, AIS, data maintenance, maintenance equipment deletion of simulator full visual system requirement, and additional maintenance training equipment requirements (\$+727.9M).

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16. HARM (AF) - Program costs increased by \$1,600.7M, from \$1,863.2M to \$3,463.9M, due to (1) the application of higher anticipated escalation rates in the program outyears (\$+34.6M), (2) addition of 6,363 missiles (\$+1,602.2M), (3) procurement rescheduling of 7,968 missiles (\$+60.7M), (4) reestimate of total program (\$-77.5M), and (5) changes in support item requirements and amount of spares (\$-19.3M).

17. IR MAVERICK - Program costs increased by \$1,868.6M, from \$2,532.5M to \$4,401.1M, due to (1) the application of higher anticipated escalation rates in the program outyears (\$+58.2M), (2) the additional procurement of 28,144 missiles (\$+1,459.8M), (3) estimating changes as a result of Laser MAVERICK cancellation and doubling of production rate (\$+311.3M), and (4) additional spares and support items in support of the additional missiles (\$+39.3M).

18. AIM-9M (SPARROW) (AF) - Program costs increased by \$1,046.2M, from \$379.1M to \$1,425.3M, due to (1) the application of higher anticipated escalation rates in the program outyears (\$+10.7M), (2) addition of 8,507 missiles to the procurement plan (\$+920.2M), (3) rescheduling the procurement of 3,790 missiles (\$-21.4M), (4) reestimate of procurement program based on actual developmental prototype costs (\$+96.3M), and (5) increased support and spares cost due to additional quantities (\$+40.4M).

19. GLCM - Program costs increased by \$599.8M, from \$2,123.6M to \$2,723.4M, due to (1) the application of higher anticipated escalation rates in the program outyears (\$+48.8M), (2) reestimation of the TEL/LCC costs (\$+186.3M), (3) increase of the NATO basing support due to earlier deliveries and increase in construction support of planned NATO operating sites (\$+365.4M), and (4) miscellaneous schedule changes of \$-0.7M.

Department of Defense  
OASD (Comptroller)  
February 19, 1981

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DISTRIBUTION OF COST CHANGES BETWEEN DEVELOPMENT ESTIMATES AND CURRENT ESTIMATE  
 BY CATEGORY OF CHANGE  
 AS OF DEC 31 80  
 (\$ In Millions)

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WEAPON SYSTEM	Base Year	Program Changes in Program Then Year Dollars														Economic Escalation		Total Cost Changes		WEAPON SYSTEM	
		Quantity Changes		Engineering		Support		Schedule		Estimating		Other		Total		This Qtr	To Date	This Qtr	To Date		
		This Qtr	To Date	This Qtr	To Date	This Qtr	To Date	This Qtr	To Date	This Qtr	To Date	This Qtr	To Date								
ARMY																				ARMY	
PATRIOT (Fire Sections)	72	-	-1842.5	43.1	-313.3	51.0	816.0	144.5	1194.8	-11.6	968.1	-	27.6	227.0	850.7	179.7	2232.0	406.7	3082.7	PATRIOT (Fire Sections)	
PERSHING II	79	-	-	-6.9	-6.9	6.1	23.5	-	-23.1	29.1	29.1	-	-	28.3	22.6	32.9	232.0	61.2	254.6	PERSHING II	
HELLFIRE	75	7.0	2.7	88.0	95.0	20.4	12.9	178.4	213.9	318.2	393.8	-	-	512.0	719.3	19.5	200.0	531.5	918.3	HELLFIRE	
CH-47 MODERNIZATION	75	-	-	-	-	46.2	84.0	177.0	213.4	0.0	187.2	-	-	223.2	484.6	18.9	572.5	242.1	1057.1	CH-47 MODERNIZATION	
UH-60A (BLACK HAWK)	71	-	-22.0	-	-24.8	-284.1	-143.8	-82.3	301.0	952.1	2205.1	-	19.9	485.7	2335.4	107.3	1937.8	593.0	4273.2	UH-60A (BLACK HAWK)	
AH-64 (AAH)	72	-	-	-	32.5	104.8	232.4	602.9	1064.6	-	343.5	-	-	707.7	1673.0	34.6	1157.5	742.3	2840.5	AH-64 (AAH)	
SOTAS (Division Sets)	72	-21.5	-393.4	26.4	32.0	103.6	92.7	285.5	288.1	979.3	981.3	-	-	1373.3	994.7	20.3	173.1	1393.6	1163.8	SOTAS (Division Sets)	
FVS (MICV)	79	517.9	3055.3	795.3	1653.4	681.0	1037.8	414.3	175.3	2749.4	5218.6	-	17.9	5158.9	11169.3	179.0	1251.6	5337.9	12420.9	FVS (MICV)	
XM-1	72	-	4784.0	-8.9	164.3	314.5	689.5	412.3	1170.5	5975.7	5238.7	-	-	5793.6	12047.0	77.5	2128.8	5871.1	14175.8	XM-1	
ROLAND (Fire Units)	75	-363.5	-752.9	23.7	85.3	-259.4	-224.0	21.4	227.7	-24.1	540.8	-	90.0	-691.9	-29.1	38.5	285.0	-563.4	255.9	ROLAND (Fire Units)	
COPPERHEAD (CLGP)	75	-	-643.1	-	25.5	-	14.7	105.8	357.7	-	55.3	-	6.3	105.8	-183.6	5.8	217.2	111.6	33.6	COPPERHEAD (CLGP)	
DIVAD Gun	78	-	64.1	-	-	27.4	-86.0	856.2	1272.1	13.2	61.8	-	-	896.8	1312.0	95.0	611.5	991.8	1923.5	DIVAD Gun	
MLRS (GSRS)	78	-	48.7	-	7.4	-59.9	244.9	320.4	-30.5	-227.1	-	-	-	221.8	82.1	42.2	687.3	264.0	769.4	MLRS (GSRS)	
M-198	72	-42.4	-36.7	-	3.1	-	3.3	-39.8	-18.5	-	36.1	-	0.0	-82.2	-12.7	0.2	64.7	-82.0	52.0	M-198	
NAVY																				NAVY	
E-2C	68	317.3	1859.9	18.1	158.3	143.0	644.2	-	51.4	-	116.8	-	0.0	478.4	2840.6	24.9	339.5	503.3	3180.1	E-2C	
F-14A	69	75.1	1547.7	61.2	193.8	15.5	1274.8	-	1097.1	7.0	568.3	-	79.1	158.8	4760.8	135.2	1030.8	294.0	5791.6	F-14A	
F-18	75	-	6870.4	-	381.5	728.7	2089.3	907.0	1046.0	6091.2	8564.4	-	-	7726.9	18951.6	451.0	6053.3	8177.9	25014.9	F-18	
P-3C	68	2177.6	4320.6	-	447.1	236.9	430.9	409.1	1365.4	5.0	192.5	-	5.9	2829.6	6763.4	55.4	754.8	2885.0	7518.2	P-3C	
LAMPS MK III	76	81.5	95.3	184.4	101.4	317.6	53.2	42.6	-36.1	604.3	1710.3	-	-	1230.4	1924.1	73.6	873.4	1304.0	2797.5	LAMPS MK III	
CAPTOR	71	737.8	48.7	33.8	226.5	393.6	365.8	-	206.9	15.1	382.0	-	0.0	1180.3	1229.9	8.7	55.2	1189.0	1285.1	CAPTOR	
HARM	78	-305.4	-323.4	-	14.0	-	-	599.2	780.9	16.2	138.1	-	0.0	219.0	609.6	51.6	305.9	270.6	915.5	HARM	
HARPOON	70	-318.8	-1.7	120.9	264.1	-0.3	225.4	-	118.7	17.6	160.6	-	-	-180.6	767.1	-2.1	354.8	-182.7	1121.9	HARPOON	
PHOENIX	63	434.0	526.8	21.8	113.5	52.4	165.3	-	624.8	127.9	283.2	-	57.5	636.1	1871.1	8.6	258.6	644.7	2129.7	PHOENIX	
SIDEWINDER AIM-9M	76	-40.9	-148.3	-	-	2.0	2.0	-11.0	-11.0	-9.7	-10.7	-	-	-59.6	-168.0	5.6	5.6	-54.0	-162.4	SIDEWINDER AIM-9M	
SPARROW AIM-7M	78	5.6	5.6	-	-	24.4	82.8	-82.1	-82.1	-	-3.9	-	-	-52.1	2.4	23.8	188.8	-28.3	191.2	SPARROW AIM-7M	
TOMAHAWK	77	198.1	-495.1	38.9	162.1	212.5	217.9	-12.8	233.2	187.9	265.1	-	-	624.6	383.2	20.0	118.5	644.6	591.7	TOMAHAWK	
TRIDENT	74	2749.3	10761.2	-	8.0	-	58.6	-	2626.5	237.5	435.6	-	527.0	2986.8	14416.9	-6.3	4883.8	2980.5	19300.7	TRIDENT	
5-inch Guided Proj	77	288.5	21.6	-	18.2	-	-	-	51.9	201.3	195.4	-	-	489.8	287.1	5.7	62.6	495.5	349.7	5-inch Guided Proj	
SURTASS	75	229.7	229.7	-	68.2	9.3	19.7	-	104.8	36.9	123.3	-	9.3	275.9	555.0	27.3	81.9	303.2	636.9	SURTASS	
TACTAS	76	8.6	-30.3	-	107.5	1.0	-6.7	5.4	32.7	-44.1	175.2	-	0.0	-29.1	278.4	5.6	291.2	-23.5	569.6	TACTAS	
SSN-688	71	2446.6	5574.7	394.7	522.4	4.6	280.1	45.8	87.3	-1015.6	-777.3	-	412.8	1876.1	6100.0	353.3	2508.5	2229.4	8608.5	SSN-688	
CG-47 (DDG-47)	78	2258.3	4105.4	250.8	739.3	137.3	221.6	506.2	304.2	1104.7	1269.1	-	-	4257.3	6639.6	358.5	1827.9	4615.8	8467.5	CG-47 (DDG-47)	
FFG-7	73	-2688.7	-1532.3	-7.2	878.3	21.5	208.4	-	1626.0	-88.6	1348.3	-	-	-2763.0	2528.7	89.2	3017.6	-2673.8	5546.3	FFG-7	
PHM	73/74	-	-533.1	-	3.6	0.1	1.2	-	137.5	-	32.7	-	29.4	0.1	-328.7	-0.3	15.8	-0.2	-312.9	PHM	
CVN-71	79	-	-	-	-	-	-	-	-	0.0	0.0	-	-	0.0	0.0	-27.8	164.1	-27.8	164.1	CVN-71	
AIR FORCE																				AIR FORCE	
A-10	70	-592.0	-227.4	-55.6	322.0	-145.5	88.5	-529.3	908.1	-43.7	-52.7	-	28.8	-1366.1	1067.3	76.8	1190.5	-1289.3	2257.8	A-10	
F-15	70	-	-	51.8	523.4	129.0	352.9	-159.3	1679.8	-63.4	-99.5	-	767.7	-41.9	3224.3	112.3	3691.6	70.4	6915.9	F-15	
F-16	75	-	5364.7	1450.8	1981.2	727.9	2755.8	1063.2	2497.9	-447.1	-586.9	-	56.4	2794.8	12069.1	398.9	3782.2	3193.7	15851.3	F-16	
E-3A (AWACS)	70	-	50.4	-5.1	47.3	63.1	151.2	84.4	1291.7	-80.1	-279.5	-	-9.8	62.3	1251.3	34.3	541.2	96.6	1792.5	E-3A (AWACS)	
E-4 (AABNCP)	74	-	-61.1	-	22.2	-9.1	-22.3	-76.5	559.2	-97.6	2.4	-	-	-183.2	590.4	14.8	80.1	-168.4	580.5	E-4 (AABNCP)	
EF-111A	73	-	-	-	27.7	20.3	39.4	149.9	-	371.2	-15.0	112.9	-	12.3	52.1	657.6	19.2	140.0	71.3	797.6	EF-111A
PLSS	77	-320.0	-652.5	36.0	33.4	30.0	-78.9	3.1	49.0	31.8	41.4	-	-	-219.1	-608.6	4.0	81.9	-215.1	-526.7	PLSS	
HARM (AGM-88)	78	1602.2	1730.9	-	-19.3	-19.3	60.7	284.0	-77.5	67.5	-	-	-	1565.1	2053.1	34.6	348.8	1600.7	2411.9	HARM (AGM-88)	
MAVERICK (IIR)	75	1459.8	1517.9	-	-	39.3	14.4	-	267.5	311.3	321.1	-	89.4	1810.4	2210.3	58.2	597.9	1858.6	2908.2	MAVERICK (IIR)	
SIDEWINDER AIM-9M	76	199.8	199.8	-	-	25.9	25.9	77.0	77.0	-7.6	-6.0	-	-	295.1	296.7	11.5	11.5	305.6	308.2	SIDEWINDER AIM-9M	
SPARROW AIM-7M	78	920.2	920.2	-	40.4	42.5	-21.4	-21.4	95.3	97.0	-	-	-	1035.5	1038.3	10.7	23.8	1046.2	1052.1	SPARROW AIM-7M	
DSCS III (Space Seg)	77	-	-	31.5	59.3	-	-	-	67.4	71.6	33.2	12.9	12.9	116.0	172.8	21.6	175.1	137.6	347.9	DSCS III (Space Seg)	
NAVSTAR GPS	79	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	NAVSTAR GPS	
ALCM	77	-	-19.1	47.6	212.4	61.1	71.0	45.7	212.0	502.3	496.8	-	-0.2	656.7	972.9	73.2	902.6	729.9	1875.5	ALCM	
GLCM	77	-	-225.0	-	61.3	355.4	468.4	-0.7	108.3	186.3	231.2	-	132.8	551.0	777.0	48.8	419.2	599.8	1196.2	GLCM	
SUMMARY																				SUMMARY	
ARMY		97.5	4265.2	961.7	1756.1	818.9	2487.1	3321.1	6757.9	9950.8	16032.3	0.0	161.7	15150.0	31460.3	851.4	11761.0	16001.4	43221.3	ARMY	
NAVY		8553.2	33013.4	1117.4	4407.8	2300.1	6334.5	2319.4	10357.1	7495.6	15169.0	0.0	1121.0	21885.7	70412.8	1661.5	23202.6	23547.2	93615.4	NAVY	
AIR FORCE		3270.0	8598.8	1584.7	3282.8	1347.6	3991.0	546.9	8350.7	367.6	378.9	12.9	1090.3	7129.7	25692.5	918.9	11986.4	8048.6	37678.9	AIR FORCE	
GRAND TOTAL		12020.7	45877.4	3563.8	9446.7	4466.6	12812.6	6187.4	25475.7	17814.0	31580.2	12.9	2373.0	44165.4	127555.6	3431.8	46950.0	47597.2	174515.6	GRAND TOTAL	

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FUNDING STATUS OF SAR SYSTEMS  
As of DEC 31 80  
(\$In Millions)

Weapon System	Current & Prior Year	FY 1982 Budget	Balance of FYDP	Balance of Program	Total Current Estimate
	Funds	Funds	Funds	Funds	Funds
CONGRESSIONAL SAR SUBMISSION					
<b>ARMY</b>					
PATRIOT (Fire Sections)	\$ 2,782.3	\$ 559.7	\$ 3,689.7	\$ 1,291.5	\$ 8,323.2
PERSHING II	404.1	361.8	963.9	95.8	1,825.6
HELLFIRE	296.8	121.3	778.7	456.6	1,653.4
CH-47 MODERNIZATION	298.9	130.0	971.1	1,219.9	2,619.9
UH-60A (BLACK HAWK)	2,052.5	463.7	1,438.4	2,625.9	6,580.5
AH-64 (AAH)	1,098.1	459.5	2,526.4	2,414.6	5,598.5
SOTAS (Division Sets)	200.6	71.7	815.2	1,359.1	2,446.6
FVS (MICV)	1,279.7	1,040.4	4,632.6	6,194.6	13,147.3
XM-1	3,210.5	1,496.5	7,586.0	6,652.2	18,955.2
ROLAND (Fire Units)	1,226.7	65.0	83.7	-	1,375.4
COPPERHEAD (CLGP)	388.1	119.1	402.2	354.9	1,274.3
DIVAD Gun	325.8	130.6	1,306.6	3,346.3	5,109.3
MLRS (GSRS)	441.1	246.7	1,636.3	1,899.3	4,223.4
M-198	173.9	-	-	-	173.9
<b>NAVY</b>					
E-2C	2,201.0	290.1	1,275.2	-	3,766.3
F-14A	9,854.1	920.1	1,183.4	-	11,957.6
F-18	5,674.6	2,446.5	14,575.7	15,193.4	37,890.2
P-3C	3,629.2	321.5	1,799.7	3,062.0	8,812.4
LAMPS MK III	793.5	769.5	4,125.0	1,017.1	6,705.1
CAPTOR	503.5	93.8	848.0	169.0	1,614.3
HARM	394.5	13.2	448.2	1,417.5	2,273.4
HARPOON	1,381.5	270.6	501.6	-	2,153.7
PHOENIX	1,485.9	193.2	987.0	-	2,666.1
SEAWINDER AIM-9M	75.5	24.1	71.4	-	171.0
SPARROW AIM-7M	221.9	129.6	393.0	341.6	1,086.1
TOMAHAWK	1,147.9	311.4	1,455.3	-	2,924.6
TRIDENT	16,256.3	2,205.2	10,432.9	2,827.4	31,731.8
5-inch Guided Proj	124.1	22.6	343.6	359.9	850.2
SURTASS	409.2	175.8	308.9	2.3	896.2
TACTAS	127.7	24.6	745.8	272.6	1,170.7
SSN-688	10,020.4	778.7	3,499.7	57.2	14,356.0
CG-47 (DDG-47)	3,500.2	2,160.4	16,360.2	450.2	22,551.0
FFG-7	7,964.7	630.9	195.0	0.2	8,790.8
PHM	407.7	5.6	-	-	413.3
CVN-71	2,455.6	69.9	18.4	39.8	2,584.7
<b>AIR FORCE</b>					
A-10	4,712.2	21.5	13.8	-	4,747.5
F-15	12,735.0	929.6	606.5	-	14,271.1
F-16	7,628.5	1,690.6	7,099.9	5,486.8	21,905.8
E-3A (AWACS)	3,745.3	53.8	655.0	-	4,454.1
E-4 (AABNCP)	480.5	3.4	580.9	-	1,064.8
EF-111A	769.4	308.9	351.2	-	1,429.5
PLSS	165.5	82.5	179.8	-	427.8
HARM (AGM-88)	17.2	-	939.8	2,506.9	3,453.9
MAVERICK (IIR)	150.1	215.1	1,545.6	2,490.3	4,401.1
SEAWINDER AIM-9M	55.0	59.2	470.6	-	585.8
SPARROW AIM-7M	220.0	152.7	1,052.6	-	1,425.3
DSCS III (Space Seg)	316.7	166.4	729.2	29.2	1,241.5
NAVSTAR GPS	590.6	248.7	1,328.2	139.2	2,306.7
ALCM	2,248.0	784.0	2,325.3	702.2	6,059.5
GLCM	329.0	485.8	1,835.8	72.8	2,723.4
<b>SUMMARY (% of Total) a/</b>					
ARMY	14,179.1 (19.0)	5,255.0 ( 7.0)	26,930.8 (36.2)	27,930.7 (37.5)	74,306.6 (100.0)
NAVY	68,720.0 (41.5)	11,857.3 ( 7.1)	59,578.0 (35.0)	25,210.2 (15.2)	165,365.5 (100.0)
AIR FORCE	34,164.0 (48.4)	5,202.2 ( 7.3)	19,714.2 (27.9)	11,427.4 (16.2)	70,507.8 (100.0)
<b>GRAND TOTAL</b>	<b>\$117,063.1 (37.7)</b>	<b>\$ 22,325.5 ( 7.1)</b>	<b>\$106,223.0 (34.2)</b>	<b>\$ 54,568.3 (20.8)</b>	<b>\$310,179.9 (100.0)</b>

a/ Percent of total may not equal 100% because of roundoff.

Department of Defense  
OASD(Comptroller)  
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