

AD-A113 359

OFFICE OF THE SECRETARY OF DEFENSE WASHINGTON DC  
DEPARTMENT OF THE ARMY JUSTIFICATION OF ESTIMATES FOR FISCAL YE--ETC(U)  
FEB 82

F/G 15/5

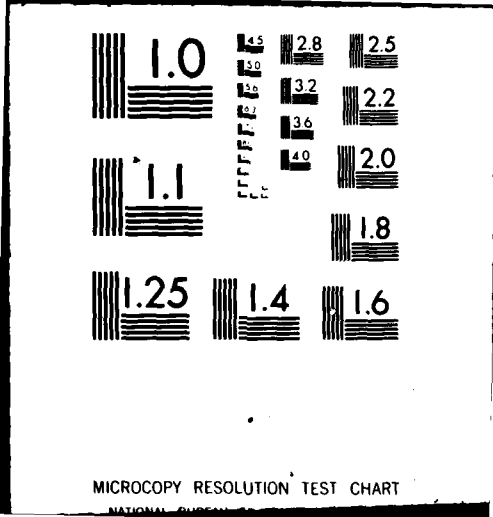
UNCLASSIFIED

NL

1-1  
A-113



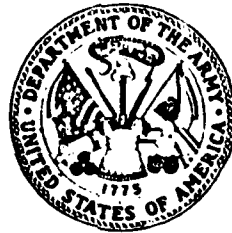

END  
DATE  
FORMED  
8-82  
DTIC



AD A11 3359

**DEPARTMENT OF THE ARMY**  
**JUSTIFICATION OF ESTIMATES FOR FISCAL YEAR 1983**  
**SUBMITTED TO CONGRESS**

**FEBRUARY 1982**



PART 3 OF 7 PARTS  
(WEAPONS & TRACKED  
COMBAT VEHICLES)

**PROCUREMENT**

**PROGRAMS**

**AIRCRAFT**

**MISSILES**

**WEAPONS & TRACKED COMBAT VEHICLES**

**AMMUNITION**

**OTHER**

**NATIONAL GUARD EQUIP**

**DISTRIBUTION STATEMENT A**

*Approved for public release;  
Distribution Unlimited*

UNCLASSIFIED

SECURITY CLASSIFICATION OF THIS PAGE (When Data Entered)

REPORT DOCUMENTATION PAGE		READ INSTRUCTIONS BEFORE COMPLETING FORM
1. REPORT NUMBER	2. GOVT ACCESSION NO. AD-A113 359	3. RECIPIENT'S CATALOG NUMBER
4. TITLE (and Subtitle) (in 5 parts) Department of the Army Justification of Estimates for Fiscal Year 1983, Submitted to Congress February 1982, Procurement Programs, Aircraft, Missiles, Weapons & Tracked Cbt Veh., Ammunition & Other Procurement. ARMY		5. TYPE OF REPORT & PERIOD COVERED Army Procurement Budget Justification, FY 1983
		6. PERFORMING ORG. REPORT NUMBER
7. AUTHOR(s)  Department of the Army		8. CONTRACT OR GRANT NUMBER(s)
9. PERFORMING ORGANIZATION NAME AND ADDRESS HQDA, Office of the Deputy Chief of Staff for Research, Development, and Acquisition (DAMA-PPP-B) Washington, DC 20310		10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS
11. CONTROLLING OFFICE NAME AND ADDRESS HQDA, Office of the Deputy Chief of Staff for Research, Development, and Acquisition (DAMA-BOA-S) Washington, DC 20310		12. REPORT DATE February 1982
14. MONITORING AGENCY NAME & ADDRESS (if different from Controlling Office)		13. NUMBER OF PAGES 504 (including all parts)
		15. SECURITY CLASS. (of this report)  UNCLASSIFIED
		15a. DECLASSIFICATION/DOWNGRADING SCHEDULE
16. DISTRIBUTION STATEMENT (of this Report)  Approved for public release; distribution unlimited.		
17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different from Report)		
18. SUPPLEMENTARY NOTES		
19. KEY WORDS (Continue on reverse side if necessary and identify by block number) Army Procurement Programs Budget Justification Book covering Aircraft, Missiles, Weapons and Tracked Combat Vehicles, Ammunition and Other Procurement, Army Appropriations programs submitted by the Army to Congress February 1982 for Fiscal Year 1983		
20. ABSTRACT (Continue on reverse side if necessary and identify by block number) In justification of programs requested, this document, in separate volume for each of the five Procurement Appropriations, provides backup data for the Army Budget submission for FY 1983. Included are Summaries of Requirements, Program and Financing Statements and Selected Data Sheets. (This document has been declassified for NTIS distribution).		

February 1982

DEPARTMENT OF THE ARMY  
PROCUREMENT APPROPRIATIONS

JUSTIFICATION OF ESTIMATES FOR FISCAL YEARS 1983, 1984

<u>TABLE OF CONTENTS</u>	<u>PAGE NO.</u>
Aircraft Procurement, Army .....	1-1
Missile Procurement, Army .....	2-1
Procurement of Weapons and Tracked Combat Vehicles, Army .....	3-1
Procurement of Ammunition, Army .....	4-1
Other Procurement, Army .....	5-1
Procurement of National Guard Equipment, Army .....	6-1
Procurement of Equipment and Missiles, Army .....	7-1

DEPARTMENT OF THE ARMY  
PROCUREMENT OF WEAPONS AND TRACKED COMBAT VEHICLES, ARMY

JUSTIFICATION OF ESTIMATES FOR FISCAL YEARS 1983, 1984

<u>TABLE OF CONTENTS</u>	<u>PAGE NO.</u>
Section 1 - Budget Appendix Extract .....	3-1
Section 2 - Introductory Statement .....	3-12
Section 3 - Summary of Requirements .....	3-14
Section 4 - Budget Activity Justification .....	3-17
Section 5 - Comparison of Program Requirements and Financing .....	3-32
Section 7 - Analysis of Unobligated Balances .....	3-38
Appendix - Consultants, Studies and Analyses, and Management Support Contracts .....	3-41

PROCUREMENT OF WEAPONS AND TRACKED COMBAT VEHICLES, ARMY

Section 1

Budget Appendix Extract

Language

Program and Financing Schedule

Object Classification Schedule

APPROPRIATION LANGUAGE

For construction, procurement, production, and modification of weapons and tracked combat vehicles, equipment, including ordnance, spare parts, and accessories therefor, specialized equipment and training devices; expansion of public and private plants, including the land necessary therefor, without regard to section 4774, title 10, United States Code, for the foregoing purposes, and such lands and interest therein, may be acquired, and construction prosecuted thereon prior to approval of title as required by section 355, Revised Statutes, as amended; and procurement and installation of equipment, appliances, and machine tools in public and private plants; reserve plant and Government and contractor-owned equipment layaway; and other expenses necessary for the foregoing purposes: (\$4,002,300), \$5,030,685 to remain available for obligation (1) until September 30, (1984), 1985. (2)

EXPLANATION OF LANGUAGE CHANGES

- (1) To change the amount of appropriation for FY 1983.
- (2) To change the obligation expiration date for the FY 1983 program.



Army

Procurement of Weapons and Tracked Combat Vehicles, Army

08 FEB 82

Program and Financing (in thousands of dollars)

Identification code	21-2033-0-1-051	Budget plan (amounts for procurement actions programed)			Obligations		
		1981 actual	1982 est.	1983 est.	1981 actual	1982 est.	1983 est.
<b>Program by activities:</b>							
<b>Direct:</b>							
	1. Tracked combat vehicles	3,071,555	3,215,285	4,200,739	2,848,288	3,120,471	4,061,120
	2. Weapons and other combat vehicles	302,645	661,015	829,946	277,466	609,225	779,316
	Total direct	3,374,200	3,876,300	5,030,685	3,125,754	3,729,696	4,840,436
	Reimbursable program	664,330	713,600	611,100	690,062	728,395	625,329
10.0001	Total	4,038,530	4,589,900	5,641,785	3,815,816	4,458,091	5,465,765
<b>Financing:</b>							
<b>Offsetting collections from:</b>							
11.0001	Federal funds	-49,243	-116,700	-125,100	-47,185	-116,700	-125,100
13.0001	Trust funds	-604,960	-596,900	-486,000	-616,832	-596,900	-486,000
14.0001	Non-federal sources	-127			-131		
17.0001	Recoveries of prior year obligations(-)				-58,731		
	Unobligated balance available, start of year:						
21.4001	For completion of prior year budget plans				-698,084	-853,413	-985,222
21.4002	Reprogramming from or to prior year budget plan	-25,934					
24.4001	Unobligated balance available, end of year				853,413	985,222	1,161,242
25.0001	Unobligated balance lapsing	25,934			25,934		
39.0001	Budget authority	3,374,200	3,876,300	5,030,685	3,374,200	3,876,300	5,030,685
<b>Budget authority:</b>							
40.0001	Appropriation	3,374,200	3,825,200	5,030,685	3,374,200	3,825,200	5,030,685
41.0001	Transferred to other accounts(-)	-4,000			-4,000		
42.0001	Transferred from other accounts		51,100			51,100	
43.0001	Appropriation (adjusted)	3,374,200	3,876,300	5,030,685	3,374,200	3,876,300	5,030,685
<b>Relation of obligations to outlays:</b>							
71.0001	Obligations incurred, net				3,251,668	3,744,491	4,854,665
72.4001	Obligated balance, start of year				3,192,226	3,543,285	4,797,376
74.4001	Obligated balance, end of year				-3,543,285	-4,797,376	-6,178,741
77.0001	Adjustments in expired accounts				6,289		
78.0001	Adjustments in unexpired accounts				-58,731		
90.0001	Outlays				1,848,144	2,490,400	3,476,900

Army

Procurement of Weapons and Tracked Combat Vehicles, Army

08 FEB 82

Object Classification (in thousands of dollars)

Identification code	21-2030-0-1-051	1981 actual	1982 est.	1983 est.
<b>Direct obligations:</b>				
Other services:				
125.004	Other	999,761	768,320	1,058,308
126.001	Supplies and materials	468,368	716,820	834,988
131.001	Equipment	1,857,627	2,246,656	3,147,142
199.001	Total direct obligations	3,125,754	3,729,696	4,840,438
<b>Reimbursable obligations:</b>				
Other services:				
225.004	Other	203,086	270,238	148,846
226.001	Supplies and materials	150,817	182,143	89,187
231.001	Equipment	336,359	296,014	387,496
299.001	Total reimbursable obligations	690,062	728,395	625,329
999.001	Total obligations	3,815,816	4,458,091	5,465,768

Army

Procurement of Weapons and Tracked Combat Vehicles, Army

06 FEB 82

Program and Financing (in thousands of dollars)

1979 Fiscal year program

Identification code 21-2033-0-1-051

Budget plan (amounts for procurement actions programmed)

Obligations

		1981 actual	1982 est.	1983 est.	1981 actual	1982 est.	1983 est.
<b>Program by activities:</b>							
<b>Direct:</b>							
	1. Tracked combat vehicles				48,168		
	2. Weapons and other combat vehicles				5,917		
	<b>Total direct</b>				<b>54,085</b>		
	Reimbursable program				3,942		
10.0001	<b>Total</b>				<b>58,027</b>		
<b>Financing:</b>							
<b>Offsetting collections from:</b>							
11.0001	Adjustment to prior year federal fund orde				1,651		
13.0001	Adjustment to prior year trust fund orders				60,608		
14.0001	Adjustment to non-federal sources				-1		
17.0001	Recoveries of prior year obligations(-)				-58,605		
<b>Unobligated balance available, start of year:</b>							
21.4001	For completion of prior year budget plans				-87,814		
21.4002	Reprogramming from or to prior year budget plan	25,934					
25.0001	Unobligated balance lapsing	25,934					
40.0001	Budget authority						

Army

Procurement of Weapons and Tracked Combat Vehicles, Army

08 FEB 82

		Program and Financing (in thousands of dollars)			1980 Fiscal year program		
Identification code 21-2033-0-1-051		Budget plan (amounts for procurement actions programmed)			Obligations		
		1981 actual	1982 est.	1983 est.	1981 actual	1982 est.	1983 est.
<b>Program by activities:</b>							
<b>Direct:</b>							
	1. Tracked combat vehicles				191,491	105,061	
	2. Weapons and other combat vehicles				7,675	19,593	
	<b>Total direct</b>				<b>199,166</b>	<b>125,644</b>	
	Reimbursable program				150,866	107,098	
10.0001	<b>Total</b>				<b>350,032</b>	<b>232,640</b>	
<b>Financing:</b>							
<b>Offsetting collections from:</b>							
11.0001	Adjustment to prior year federal fund orde				407		
13.0001	Adjustment to prior year trust fund orders				27,320		
14.0001	Adjustment to non-federal sources				-3		
17.0001	Recoveries of prior year obligations(-)				-126		
21.4001	Unobligated balance available, start of year				-610,270	-232,640	
24.4001	Unobligated balance available, end of year				232,640		
40.0001	<b>Budget authority</b>						

Army

Procurement of Weapons and Tracked Combat Vehicles, Army

08 FEB 82

Program and Financing (in thousands of dollars)

1981 Fiscal year program

Identification code	21-2033-0-1-051	Budget plan (amounts for procurement actions programed)			Obligations		
		1981 actual	1982 est.	1983 est.	1981 actual	1982 est.	1983 est.
<b>Program by activities:</b>							
<b>Direct:</b>							
	1. Tracked combat vehicles	3,071,555			2,608,628	217,212	245,714
	2. Weapons and other combat vehicles	302,645			263,874	14,559	24,218
	<b>Total direct</b>	<b>3,374,200</b>			<b>2,872,503</b>	<b>231,771</b>	<b>269,932</b>
	Reimbursable program	654,330			535,264	50,418	68,887
10.0001	<b>Total</b>	<b>4,028,530</b>			<b>3,407,767</b>	<b>282,190</b>	<b>338,819</b>
<b>Financing:</b>							
<b>Offsetting collections from:</b>							
11.0001	Federal funds	-49,243			-49,243		
13.0001	Trust funds	-604,860			-604,860		
14.0001	Non-federal sources	-127			-127		
21.4001	Unobligated balance available, start of year					-620,773	-338,568
24.4001	Unobligated balance available, end of year				620,773	338,563	
38.0001	<b>Budget authority</b>	<b>3,374,200</b>			<b>3,374,200</b>		
<b>Budget authority:</b>							
40.0001	Appropriation	3,374,200			3,374,200		
41.0001	Transferred to other accounts(-)	-4,000			-4,000		
43.0001	Appropriation (adjusted)	3,374,200			3,374,200		

Army

Procurement of Weapons and Tracked Combat Vehicles, Army

08 FEB 82

Program and Financing (in thousands of dollars)		1982 Fiscal year program					
Identification code	21-2033-0-1-051	Budget plan (amounts for procurement actions programmed)			Obligations		
		1981 actual	1982 est.	1983 est.	1981 actual	1982 est.	1983 est.
<b>Program by activities:</b>							
<b>Direct:</b>							
	1. Tracked combat vehicles		3,215,285			2,797,298	180,764
	2. Weapons and other combat vehicles		661,015			575,083	33,051
	<b>Total direct</b>		<b>3,876,300</b>			<b>3,372,381</b>	<b>193,815</b>
	Reimbursable program		713,600			670,680	67,782
10.0001	<b>Total</b>		<b>4,589,900</b>			<b>3,943,261</b>	<b>261,607</b>
<b>Financing:</b>							
<b>Offsetting collections from:</b>							
11.0001	Federal funds		-118,700			-118,700	
13.0001	Trust funds		-596,900			-596,900	
21.4001	Unobligated balance available, start of year						-646,639
24.4001	Unobligated balance available, end of year					646,639	385,032
39.0001	<b>Budget authority</b>		<b>3,876,300</b>			<b>3,876,300</b>	
<b>Budget authority:</b>							
40.0001	Appropriation		3,625,200			3,625,200	
42.0001	Transferred from other accounts		51,100			51,100	
43.0001	Appropriation (adjusted)		3,876,300			3,876,300	

Army

Procurement of Weapons and Tracked Combat Vehicles, Army

08 FEB 82

Program and Financing (in thousands of dollars)

1983 Fiscal year program

Identification code	21-2033-0-1-051	Budget plan (amounts for procurement actions programmed)			Obligations		
		1981 actual	1982 est.	1983 est.	1981 actual	1982 est.	1983 est.
<b>Program by activities:</b>							
<b>Direct:</b>							
	1. Tracked combat vehicles			4,200,739			3,654,642
	2. Weapons and other combat vehicles			829,946			722,053
	<b>Total direct</b>			<b>5,030,685</b>			<b>4,376,695</b>
	Reimbursable program			611,100			468,800
10.0001	<b>Total</b>			<b>5,641,785</b>			<b>4,845,495</b>
<b>Financing:</b>							
<b>Offsetting collections from:</b>							
11.0001	Federal funds			-125,100			-125,100
13.0001	Trust funds			-486,000			-486,000
24.4001	Unobligated balance available, end of year						776,210
40.0001	Budget authority			5,030,685			5,030,685

Army

Procurement of Weapons and Tracked Combat Vehicles, Army  
(Supplemental now requested under existing legislation)

08 FEB 82

Program and Financing (in thousands of dollars)

Identification code	21-2033-1-1-051	Budget plan (amounts for procurement actions programmed)			Obligations		
		1981 actual	1982 est.	1983 est.	1981 actual	1982 est.	1983 est.
<b>Program by activities:</b>							
<b>Direct:</b>							
10.0001	Total		126,000		109,620	6,300	
<b>Financing:</b>							
21.4001	Unobligated balance available, start of year						-16,380
24.4001	Unobligated balance available, end of year				16,380	10,080	
40.0001	Budget authority (appropriation)		126,000		126,000		
<b>Relation of obligations to outlays:</b>							
71.0001	Obligations incurred, net				109,620	6,300	
72.4001	Obligated balance, start of year						101,820
74.4001	Obligated balance, end of year				-101,820	-52,020	
80.0001	Outlays				7,700	56,200	

3-10 February 1982



Army

Procurement of Weapons and Tracked Combat Vehicles, Army  
(Supplemental now requested under existing legislation)

08 FEB 82

Object Classification (in thousands of dollars)

Identification code	21-2033-1-1-051	1981 actual	1982 est.	1983 est.
131.001	Equipment	.....	109,620	8,300
899.001	Total obligations	.....	109,620	8,300

PROCUREMENT OF WEAPONS AND TRACKED COMBAT VEHICLES, ARMY

Section 2

Introductory Statement

3 - 12 February 1982

DEPARTMENT OF THE ARMY  
ANNUAL BUDGET ESTIMATE

APPROPRIATION:

FY 1983, 84  
Budget

PROCUREMENT OF WEAPONS AND TRACKED COMBAT VEHICLES, ARMY

Section 2 - INTRODUCTORY STATEMENT

This appropriation finances the acquisition of tanks; personnel, mortar, cargo, and Command Post Carriers; Fighting Vehicles; Combat Engineer Vehicles; Recovery Vehicles; self-propelled and towed howitzers; machine guns; mortars; modification of in-service equipment; spares and repair parts; and associated production base support.

The 1983 program provides for procurement of M1 tanks and training equipment, Infantry and Cavalry Fighting Vehicles and associated training equipment; M88 Recovery Vehicles; Command Carriers; Armored Personnel Carriers; M60 training devices; Field Artillery Ammunition Support Vehicles; Mobile Protected Gun - Cannon Vehicles; Light Armored Squad Carriers; Mobile Protected Gun - Recovery Vehicles; Smoke Grenade Launchers; Magnetic Heading Sets and Gyros; spares parts; and machine guns. Funds are provided for production of the Division Air Defense Gun system (DIVAD), Vehicle Rapid Fire Weapon System (BUSHMASTER) and XM252 81mm Mortar. Funds are also included for modification of M60 series tanks, self-propelled howitzers; Fire Support Team Vehicles (FISTV); Improved Tow Vehicles; mortar and personnel carriers. Funding resources are provided for the rehabilitation of production facilities and to establish depot maintenance facilities for tracked combat vehicles.

The FY 1984 program provides for continued procurement of M1 tanks; Infantry and Cavalry Fighting Vehicles, training equipment; Mobile Protected Guns variants; spare parts; Smoke Grenade Launchers; Division Air Defense Gun Systems; machine guns; and mortars. Funds are also included for modifications of self-propelled howitzers; fire support vehicles; mortars, M60 tanks and personnel carriers. Funding resources are provided for continued rehabilitation of production facilities and establishment of depot facilities.

PROCUREMENT OF WEAPONS AND TRACKED COMBAT VEHICLES, ARMY

Section 3

Summary of Requirements

3 - 14 February 1982

SUMMARY OF REQUIREMENTS (In Thousands of Dollars)

APPROPRIATION:	FY 1981 Actual	FY 1982 Estimate	FY 1983 Estimate
<b>Procurement of Weapons &amp; Tracked Combat Vehicles, Army</b>			
Tracked Combat Vehicles.....	3,071,555	3,341,285	4,200,739
Weapons and Other Combat Vehicles.....	302,645	661,015	829,946
<b>Total Direct Program .....</b>	<b>3,374,200</b>	<b>4,002,300</b>	<b>5,030,685</b>
Reimbursable Program .....	654,330	713,600	611,100
<b>TOTAL PROGRAM REQUIREMENTS.....</b>	<b>4,028,530</b>	<b>4,715,900</b>	<b>5,641,785</b>
<b>Less: Portion of program to-be obligated in subsequent fiscal years</b>	<b>620,773</b>	<b>663,019</b>	<b>776,210</b>
<b>Plus: Obligations incurred against prior year program funds</b>	<b>408,059</b>	<b>514,830</b>	<b>606,490</b>
<b>TOTAL OBLIGATIONS.....</b>	<b>3,815,816</b>	<b>4,567,711</b>	<b>5,472,065</b>

SUMMARY OF REQUIREMENTS (In Thousands of Dollars)

APPROPRIATION:	FY 1984 Estimate
<u>Procurement of Weapons &amp; Tracked Combat Vehicles, Army</u>	
Activity 1 - Tracked Combat Vehicles.....	\$4,750,400
Activity 2 - Weapons and Other Combat Vehicles.....	952,200
<b>Total Direct Program</b>	<b>\$5,702,600</b>

**PROCUREMENT OF WEAPONS AND TRACKED COMBAT VEHICLES, ARMY**

**Section 4**

**Budget Activity Justifications**

**Activity 1 - Tracked Combat Vehicles**

**Activity 2 - Weapons and Other Combat Vehicles**

FOUR	Department of the Army Annual Budget Estimate JUSTIFICATION	Appropriation Procurement of Weapons & Tracked Combat Vehicles, Army		FY 1983 Budget
	Budget Program or Budget Project Account	(Thousands of Dollars)		
		Actual	Estimate	Estimate
	Activity 1 - Tracked Combat Vehicles	FY 1981	FY 1982	FY 1983
	Direct Obligation or Direct Budget Plan	\$3,071,555	\$3,341,285	\$4,200,739

Section 1 - PURPOSE AND SCOPE

Provides for procurement of tracked combat vehicles including M1 tanks, Infantry and Cavalry Fighting Vehicles, training equipment, Command Post Carriers; Armored Personnel Carriers; and associated equipment. The request also provides for modification kits, major assembly repair parts (including initial provisioning), related production base support and depot maintenance plant equipment.

Section 2 - JUSTIFICATION OF FUNDS REQUESTED

Tracked Combat Vehicles - The requested funding level provides for the procurement of the following tracked combat vehicles to improve near term readiness and to meet modernization goals: Abrams M1 tank, Bradley Fighting Vehicle System, Command Post Carrier; Armored Personnel Carrier; Field Artillery Ammunition Support Vehicle, M88A1 Recovery Vehicle, Light Armored Squad Carrier; Mobile Protected Gun - Cannon Vehicle, and Mobile Protected Gun - Recovery Vehicle. To further improve and enhance Army materiel readiness of high priority combat vehicles, funds are requested for the following modification programs: upgrade of the current fleet of the M113 family of carriers and Improved TOW Vehicles, enhancement of the M109 and M110 self-propelled howitzers, Fire Support Team Vehicles and upgrade of some M60A1 tanks to the M60A3 configuration. Each of the major items included in this request is discussed below:

Carrier, Command Post - \$23.5 million is requested for procurement of 114 command post carriers. The Command Post Carrier is a command post and fire direction center which supports mechanized artillery and air defense units.

Carrier, Personnel Armored - \$92.0 million is requested for procurement of 520 Armored Personnel Carriers (APC). The APC transports an infantry squad with full battle gear, giving protection against 7.62mm small arms fire and artillery fragments.

Bradley Fighting Vehicles - \$793.3 million is requested for production of 600 Infantry and Cavalry Fighting Vehicles (IFV/CFV). The IFV/CFV is designed to be compatible with the new M1 main battle tank and provides improved firepower, cross-country mobility, and ballistic protection to infantry squads and cavalry sections. The armament is designed to engage an array of enemy targets and will include a two-man turret employing a 25mm automatic cannon, the TOW antitank guided missile system, and a 7.62mm coaxial machine gun, all utilizing an integrated day/night thermal sight. Using the organic 5.56mm firing port weapon, the mounted infantry will be able to deliver suppressive fires around the vehicle. Interior configuration varies in the CFV to allow for differences in crew size and storage requirements.



FORMAT A

Department of the Army Annual Budget Estimate <b>JUSTIFICATION</b>		FY 1983  Budget
Appropriation Procurement of Weapons & Tracked Combat Vehicles, Army	Budget Program or Budget Project Account Activity 1 - Tracked Combat Vehicles	

**Advanced Procurement - Bradley Fighting Vehicles:** \$49.2 million is requested for procurement of long leadtime manufacturing items and components to support the FY84 production of Infantry and Cavalry Fighting Vehicles.

**Bradley Fighting Vehicle Training Devices:** \$38.8 million is requested for initial procurement of unit conduct-of-fire trainers for Fighting Vehicle System crews. These trainers will be deployed to Army schools at Ft Benning, GA, and Ft Knox, KY, for individual training of IFV/CFV gunners and commanders. Training devices will employ highly realistic battle scenario simulation rather than actual firing on the range. Not only will this provide a much wider range of battle conditions and situations than could be obtained on firing ranges, but substantial ammunition expenditure and attendant costs will be avoided, and the strain on limited range facilities will be lessened.

**Field Artillery Ammunition Support Vehicle (FAASV):** \$106.4 million is requested provide funds for tooling and the initial procurement of 250 FAASV, the replacement for the M548 ammunition carrier in all self-propelled field artillery units in Europe. The FAASV provides armor protection for the ammunition and crew as well as new ammunition handling equipment which results in a much less man intensive system of ammunition resupply in the battle area.

**Recovery Vehicle, Med, FT, M88A1:** \$157.8 million is requested to procure 180 M88A1s to meet the needs of armor units for required tank recovery capability.

**Tank, Combat, FT, 105mm Gun, M1:** \$1457.0 million is requested for procurement of 776 M1 tanks. The M1 tank is a superior tank to the M60 series tank. It will have significantly improved survivability provided by better armor protection and compartmentalization of ammunition and fuel. Its 1500-hp turbine engine and improved suspension system will provide greater cross-country speed and shoot-on-the-move capability. The M1 tank will be the Army's primary weapon system for armor battalions and is needed to counter the threat of the 1980's and 1990's.

**Advance Procurement, M1 Tank:** \$432.3 million is requested for procurement of long leadtime manufacturing items, components, and government-furnished equipment to support the FY 1984 production of M1 tanks.

**Training Equipment For M60 Tank:** \$12.6 million is requested to procure training equipment for use in M60 crew and maintenance personnel training programs. Use of training equipment permit more efficient utilization of training areas and provides continuous training for personnel which reduces wear on actual equipment.

V JWS/ECJ	Department of the Army Annual Budget Estimate JUSTIFICATION	FY 1983 Budget
	Appropriation Procurement of Weapons and Tracked Combat Vehicles, Army	Budget Program or Budget Project Account Activity 1 - Tracked Combat Vehicles

Light Armored Squad Carrier (LASC): - \$51.7 million will be used to procure 158 squad carriers for the infantry battalions of the Army's light divisions. This is the initial buy of LASC's.

Mobile Protected Gun - Cannon Vehicle (MPC-CV): \$51.9 million will be used to procure 76 MPC-CVs equipped with the M242 BUSHMASTER cannon. This is the initial buy of MPCs to provide the light divisions with an antiarmor assault capability.

Mobile Protected Gun - Recovery Vehicle (MPC-RV): \$7.7 million will be used to procure 24 recovery vehicles for the Army's light divisions. This is an initial buy of MPC-RV's. This vehicle is to provide maintenance support to the family of light armored vehicles in the light divisions.

Carrier, Modification (Mod): \$41.0 million will procure 3151 improved suspension and cooling kits which will improve cross-country mobility and reliability of the M113 carrier family.

Improved TOW Vehicle (Mod): \$81.9 million will purchase fabrication and installation of 311 ITV kits on renovated and converted M113 chassis.

Fire Support Team Vehicle (FISTV) (Mod): \$63.8 million is requested to provide funds for tooling and the initial procurement of 130 kits for the Fire Support Team Vehicle, an integrated system platform which will provide under - armor protection for the ground laser locator designator mounted on M113 Carrier. The FISTV vastly increases the capability of the artillery fire support team to provide rapid, accurate indirect fire support to the maneuver forces by providing laser designation on targets for the Copperhead Cannon Launched Guided Projectile.

Howitzer, Medium, SP, 155mm, M109 Ser (Mod): \$2.1 million is requested to continue engineering effort on the Howitzer Extended Life Program (HELP) which is designed to improve the readiness and survivability of M109 series howitzers. This modification consists of reliability, availability, maintainability (RAM) improvements, NBC protection and survivability kits.

Howitzer, Heavy, SP, FT, 8-Inch, M110 Series (Mod): \$26.8 million is requested to continue the procurement of the reliability, availability, and maintainability (RAM) improvements for the M110 series howitzers. These funds will also initiate the procurement for the crew ballistic protection shelter and the gun tube liner.

Tank, Combat, FT, 105mm Gun, M60 Series (Mod): \$162.9 million is requested to procure 360 modification kits to convert M60A1 tanks to the M60A3 configuration. The M60A3 employs a solid state ballistic computer, laser range finder and thermal sight to maximize effect-

FORMAT A	Department of the Army Annual Budget Estimate JUSTIFICATION		FY 1983
	Appropriation	Budget	
	Procurement of Weapons and Tracked Combat Vehicles, Army	Budget Program or Budget Project Account Activity 1 - Tracked Combat Vehicles	

iveness of the system for both day and night situations; also continues the M60A1, Combat Engineer Vehicle and Armored Vehicle Launched Bridge modification.

Spares and Repair Parts: \$383.5 million is requested for procurement of initial and replenishment spares and repair parts related to tracked combat vehicles.

Items Less Than \$900,000: \$0.9 million is requested for procurement of maintenance and repair equipment for tracked combat vehicles. Equipment to be procured includes shop sets and tool kits.

Production Base Support: \$105.5 million is requested for production base support, which includes depot maintenance plant equipment requirements. Major areas of emphasis are: \$23.3 million for production support and equipment replacement at M1 tank production facilities, \$29.5 million for M1E1 facilitization and \$.4 million for modernization of fire control production facilities. The FY83 request also includes \$6.0 million for layaway of equipment excess to production, \$23.6 million for various manufacturing methods and technology projects, and \$.7 million for military adaptation of commercial items. \$16.4 million is requested to procure capital investment equipment required to support depot maintenance operations, increased workload, facility modernization, and age/wear consideration. With the introduction of the M60A3 and M1 tanks, DIVAD Gun and the Fighting Vehicle System, depot maintenance facilities must be established both in the US and Europe to support the overhaul and repair of these vehicles. The equipment to be procured will provide the depots with the capability to more rapidly diagnose, repair, and check out the electrical and mechanical subsystems of these vehicles. \$5.6 million is for expansion of Mainz Army Depot in Mainz, Germany to accommodate the increasing work load.

FORM 3-1	Department of the Army Annual Budget Estimate <b>JUSTIFICATION</b>	Appropriation Procurement of Weapons & Tracked Combat Vehicles, Army	FY 1983  Budget
	Budget Program or Budget Project Account	(Thousands of Dollars)	Estimate
	Activity 1 - Tracked Combat Vehicles		FY 1984
	Direct Obligation or Direct Budget Plan		\$4,750,400

**Section 1 - PURPOSE AND SCOPE**

Provides for procurement of tracked combat vehicles including tanks, Infantry and Cavalry Fighting Vehicles, the Field Artillery Ammunition Support Vehicle (FAASV), M88A1 Recovery Vehicle, Mobile Protected Gun - Cannon Vehicle, Light Armored Squad Carriers, and Mobile Protected Gun Recovery Vehicles, Fire Support Team Vehicles; and associated equipment. The request also provides for modification kits, major assembly repair parts (including initial provisioning), related production base support, and depot maintenance plant equipment.

**Section 2 - JUSTIFICATION OF FUNDS REQUESTED**

**Tracked Combat Vehicles:** The requested funding level provides for continued procurement of the following tracked combat vehicles: Field Artillery Ammunition Support Vehicle (FAASV), M88A1 Recovery Vehicle, Light Armored Squad Carrier (LASC), Mobile Protected Gun-Cannon Vehicle, Mobile Protected Gun - Recovery Vehicle, M1 tanks and Fighting Vehicles Systems to meet modernization goals and improve near-term readiness and sustainability. To further improve/enhance Army material readiness of high-priority combat vehicles, the following modification programs are continued: M60 tank, M113 family of carriers, M109 and M110 series howitzers. Funds are also requested for further procurement of Fire Support Team Vehicle (FISTV) kits. Each of the major items included in this request is discussed below:

**Bradley Fighting Vehicles:** \$739.8 million is requested to procure 555 Fighting Vehicle Systems. The FVS is designed to be compatible with the new M1 main battle tank, with improved firepower, cross-country mobility, and ballistic protection for infantry squads and cavalry sections. The armament is designed to engage an array of enemy targets and will include a two-man turret employing a 25mm automatic cannon, the tube-launched, optically tracked, wire-guided (TOW) antitank guided missile system, and a 7.62mm coaxial machine gun, all utilizing an integrated day/night thermal sight. Using the organic 5.56mm firing port weapon, the mounted infantry will be delivering suppressive fires around the vehicle. Interior configuration varies in the Cavalry Fighting Vehicle to allow for differences in crew size and storage requirements.

**Advance Procurement-Bradley Fighting Vehicles:** \$56.7 million is requested for procurement of long leadtime manufacturing items and components to support the production of Infantry and Cavalry Fighting Vehicles.

FORMAT A

Department of the Army Annual Budget Estimate <b>JUSTIFICATION</b>		FY 1983  Budget
Appropriation Procurement of Weapons and Tracked Combat Vehicles, Army	Budget Program or Budget Project Account Activity 1 - Tracked Combat Vehicles	

Bradley Fighting Vehicle Training Devices: \$56.7 million is requested to continue procurement of conduct-of-fire trainers and to purchase turret maintenance trainers for schools. The turret maintenance trainers, and computer driven simulation devices permit insertion of a wide selection of system faults and greatly enhance fault isolation and diagnostic skill development.

Field Artillery Ammunition Support Vehicle (FAASV): \$73.7 million is requested to provide funds for continued procurement of the FAASV which are replacements for the M548s in self-propelled field artillery units in Europe. The FAASV provides armor protection for the ammunition and crew as well as new ammunition handling equipment to make ammunition handling less man-intensive in the battle area.

Recovery Vehicle, Med, Full Tracked M88A1: \$185.5 million is requested to procure 197 M88A1's to meet needs of armor units for required tank recovery capability.

Tank, Combat FT, 105mm Gun, M1 Series: \$1,950.4 million is requested for procurement of 1080 M1 tanks. The M1 will be a highly mobile vehicle with significantly improved survivability provided by improved armor protection and compartmentalization. It will mount a large-caliber gun and two complementary armament systems with improved fire control and shoot-on-the-move capability. The M1 tank will become the Army's main battle tank in armor units. It will be used as the primary offensive weapon on the Army's combined arms team to counter the threat of the 1980's.

Advanced Procurement, Tank, M1, Combat, FT: \$513.1 million is requested for procurement of long leadtime manufacturing items, components, and government-furnished equipment to support the FY 1985 production.

Training Equipment for M1 Tank: \$35.4 million is requested to procure training equipment for use in M1 crew and maintenance personnel training programs. Use of training equipment permits more efficient utilization of training areas and provides continuous training for personnel which reduces wear on actual equipment.

Light Armored Squad Carrier (LASC): \$102.7 million will be used to procure 282 squad carriers for the Army's light divisions. This represents a second year buy.

Mobile Protected Gun - Cannon Vehicle (MPC-CV): \$102.4 million will be used to procure 126 Mobile Protected Gun - Cannon Vehicles (MPC-CV) equipped with the M242 BUSHMASTER cannon. This represents the second year buy of fighting vehicles for light divisions.

FORMAT A

Department of the Army Annual Budget Estimate <b>JUSTIFICATION</b>		FY 1983  Budget
<b>Appropriation</b>	<b>Budget Program or Budget Project Account</b>	
Procurement of Weapons and Tracked Combat Vehicles, Army	Activity 1 - Tracked Combat Vehicles	

Mobile Protected Gun - Recovery Vehicle (MPC-RV): \$14.8 million will be used to procure 41 MPC-RVs to provide maintenance support for the MPCs of the light divisions. This represents a second year buy of MPC-RVs.

Carrier Modifications (Mod): \$34.9 million is requested for procurement of kits to provide improved suspension and improved cooling to M113A1 carrier series.

Fire Support Team Vehicle (FISTV) (Mod): \$195.9 million is requested to provide funds for continued procurement of 495 kits for the Fire Support Team Vehicles, an integrated system platform which will provide under-armor protection for the Ground Laser Locator Designator. Mounted on an M113 carrier, the FISTV will vastly increase the capability of the artillery fire support team to provide rapid, accurate indirect fire support to the maneuver forces by providing laser designation on targets for Copperhead Cannon Launched Guided Projectile.

Howitzer, Medium, SP, 155mm M109 Series (Mod): \$4.7 million in funding is requested to complete engineering effort on the Howitzer Extended Life Program (HELP) which is designed to improve the readiness and survivability of the M109 series self-propelled howitzers. Additionally, a thermal warning device, which improves safety by alerting the crew to a dangerously hot tube will be applied.

Howitzer, Heavy, SP, FT, 8-Inch M110A2 (Mod): \$24.5 million is requested for procurement for the crew ballistic protection shelter and the gun tube liner.

Tank Combat, Full Tracked, 105mm Gun, M60 Series (Mod): \$182.3 million is requested to procure 360 modification kits to convert M60A1 to M60A3 configuration. The M60A3 employs a solid state computer, laser range finder and thermal sight to maximize effectiveness of the system over both day and night situations. Also provides for continued M60A1, Combat Engineer Vehicle and Armored Vehicle Launched Bridge modifications.

Spares and Repair Parts: \$394.5 million is requested for procurement of initial and replenishment spares and repair parts items related to tracked combat vehicles.

Items Less Than \$900,000: \$1.0 million is requested for the procurement of maintenance and repair equipment for tracked combat vehicles.

FORMAT A

Department of the Army Annual Budget Estimate JUSTIFICATION		FY 1983 Budget
Appropriation Procurement of Weapons and Tracked Combat Vehicles, Army	Budget Program or Budget Project Account Activity 1 - Tracked Combat Vehicles	

**Production Base Support:** \$81.4 million is requested for production base support. \$31.5 million is requested to provide annual production support and equipment replacement to maintain current tank production rates. \$6.8 million is requested for manufacturing equipment required at the tank production facilities for incorporation of the M1 product improvement program. \$4.6 million is to continue rehabilitation of the Stratford Army Engine Plant, and \$2 million to modernize fire control facilities. The balance of the request provides \$6.1 million for layaway of the M60 series tank production lines and \$10.7 million for various manufacturing methods and technology projects. There is \$21.5 million for depot maintenance equipment required to support fielding of new systems in Germany such as the M1 tank, Bradley Fighting Vehicle Systems, Division Air Defense Gun and the Mobile Protected Gun family.

C DIVAD	Department of the Army Annual Budget Estimate JUSTIFICATION	Appropriation Procurement of Weapons & Tracked Combat Vehicles, Army		FY 1983  Budget
	Budget Program or Budget Project Account	(Thousands of Dollars)		
	Activity 2 - Weapons and Other Combat Vehicles	Actual	Estimate	Estimate
	Direct Obligation or Direct Budget Plan	FY 1981	FY 1982	FY 1983
	\$302,645	\$661,015	\$829,946	

**Section 1 - PURPOSE AND SCOPE**

Provides for procurement of weapons and other combat vehicles including air defense weapons, mortars, machine guns, and associated equipment. The request also provides for modification (mod), procurement of depot reparable major assembly repair parts (including initial provisioning), related production base support, and depot maintenance plant equipment.

**Section 2 - JUSTIFICATION OF FUNDS REQUESTED**

**Weapons and Other Combat Vehicles:** The requested funding level provides for continued procurement of the Vehicle Rapid Fire Weapon System (VRFWS) (BUSHMASTER weapons), M240 machine gun, Smoke Grenade Launcher, Magnetic Heading Set and gyros. Funding is also requested for the procurement of the Division Air Defense (DIVAD) Gun System, DIVAD advance procurement, 9mm Personal Defense Weapon, XM252 81mm Mortar, and Squad Automatic Weapon (SAW). Each of the items included in this request is discussed below:

**DIVAD Gun:** \$521.1 million is requested for further procurement of 96 DIVAD guns. This system will provide air defense for divisional maneuver elements against attack by armed helicopters and high performance fixed-wing aircraft.

**Advance Procurement, DIVAD Gun:** \$74.4 million is requested for the procurement of long leadtime manufacturing items and components to support the FY84 production of the DIVAD gun.

**Armor Machine Gun, 7.62mm, M240:** \$26.4 million is requested for procurement of 5400 machine guns. This request will continue the five-year multiyear procurement from a Continental United States (CONUS) producer. The resultant asset posture is 36 percent of the acquisition objective. The M240 replaces the M219 Armor Machine Gun and provides significant reliability improvements.

**Squad Automatic Weapon (SAW):** \$10.5 million is requested for the second year procurement of 3579 Squad Automatic Weapons. This lightweight, highly mobile machine gun delivers sustained fire and increased range and will greatly enhance the effectiveness of the infantry rifle squad.

**Launcher Smoke Grenade (Mod):** \$3.4 million is requested to continue procurement of protective smoke systems for combat vehicles. The launcher provides near instantaneous smoke protection and is a defensive aid against antitank missiles.



FORMAT A

Department of the Army Annual Budget Estimate <b>JUSTIFICATION</b>		FY 1983  Budget
<b>Appropriation</b> Procurement of Weapons and Tracked Combat Vehicles, Army	<b>Budget Program or Budget Project Account</b> Activity 2 - Weapons and Other Combat Vehicles	

Mortar, 81mm, XM252: \$10.6 million is requested to procure 352 XM252 81mm mortars. The improved mortar replaces the M30 4.2 inch mortar as the battalion/squadron mortar in all combat units and the M29 81mm mortar as the company mortar for mechanized infantry and cavalry troops. The system is composed of both United Kingdom and US-produced components.

9mm Personal Defense Weapon (PDW): \$4.4 million is requested to procure 11,500 9mm handguns. This is the first year of a ten year Army procurement of new 9mm handguns to replace an aging and depleted stock of M1911A1 caliber .45 handguns and caliber .38 revolvers. This will also enhance NATO Rationalization, Standardization and Interoperability (RSI) hand guns and ammunition throughout the Alliance.

Vehicle Rapid Fire Weapons System (VRFWS) (BUSHMASTER): \$33.4 million is requested for the procurement of 532 25mm VRFWS, BUSHMASTER weapons. The BUSHMASTER is the primary armament for the Bradley Fighting Vehicles.

Heading Reference Set (Magnetic Set): \$3.7 million is requested for initial procurement of the Heading Reference Set. This set is a low-cost unit that provides vehicle heading information to assist the combat vehicle driver to maintain orientation during periods of limited visibility or over terrain with few distinguishable features.

Heading Reference Set (GYRO Group) (Mod): \$1.5 million is requested for initial procurement of this item. It is a directional gyro unit that is used in conjunction with the Heading Reference Set to provide the armored unit commander with more accurate vehicle heading information to maintain orientation during periods of limited visibility or over terrain with few distinguishing features.

Modification Under \$900,000: \$.9 million is requested for modification of weapons and other combat vehicles.

Spares and Repair Parts: \$107.9 million is requested for procurement of initial and replenishment spares and repair parts related to weapons and other combat vehicles.

Items Less Than \$900,000: \$2.6 million is requested for procurement of shop sets and tool sets for maintenance and repair of weapons and other combat vehicles.

FORM 3

Department of the Army Annual Budget Estimate <b>JUSTIFICATION</b>		FY 1983 Budget
<b>Appropriation</b> Procurement of Weapons and Tracked Combat Vehicles, Army	<b>Budget Program or Budget Project Account</b> Activity 2 - Weapons and Other Combat Vehicles	

**Production Base Support:** Production base support programs require \$29.1 million FY 1983. \$4.2 million is for plant equipment in support of various weapons systems, and \$1.3 million for rehabilitation of small arms production facilities. Additionally, \$6.8 million is being requested for manufacturing methods and technology, \$1.3 million for layaway of industrial facilities, and \$1.3 million for military adaptation of commercial items. \$13.3 million is for depot support for the DIVAD gun and \$9 million for weapons depot support.

Department of the Army Annual Budget Estimate <b>JUSTIFICATION</b>	Appropriation Procurement of Weapons & Tracked Combat Vehicles, Army	FY 1983 Budget
	(Thousands of Dollars)	
	Budget Program or Budget Project Account Activity 2 - Weapons and Other Combat Vehicles	Estimate
Direct Obligation or Direct Budget Plan		FY 1984 \$ 952,200

**Section 1 - PURPOSE AND SCOPE**

Provides for procurement of weapons and other combat vehicles including air defense weapons, towed artillery, mortars, machine guns, and associated equipment. The request also provides for modification kits, procurement of depot repairable major assembly repair parts (including initial provisioning), related production base support, and depot maintenance plant equipment.

**Section 2 - JUSTIFICATION OF FUNDS REQUESTED**

**Weapons and Other Combat Vehicles:** The requested funding provides for continued procurement of the Division Air Defense Gun (DIVAD), DIVAD Gun advance procurement, 9mm Personal Defense Weapon, the XM252 81mm mortar, the Squad Automatic Weapon, the Vehicle Rapid Fire Weapon System (VRFWS) (BUSHMASTER), and the M240 machine gun. Modification programs are continued for the Smoke Grenade Launchers and the Magnetic Heading Set with gyro systems. Each of the major items included in this request is discussed below:

**DIVAD Gun -** \$595.4 million is requested for the third year procurement of 150 DIVAD Guns. This system will provide air defense for divisional maneuver elements against attack by armed helicopters and high-performance, fixed-wing aircraft.

**Advance Procurement - DIVAD Gun:** \$66.9 million is requested for the procurement of long leadtime manufacturing items and components to support the FY85 production of the DIVAD gun.

**Armor Machine Gun, 7.62mm, M240:** \$25.4 million is requested for procurement of 4800 M240 machine guns. This request will complete the five-year multiyear procurement from a Continental United States (CONUS) producer. The M240 replaces the M219 Armor Machine Gun and provides significant reliability improvement.

**Squad Automatic Weapon (SAW):** \$16.5 million is requested for the third-year buy of 6000 Squad Automatic Weapons. This is a one-man weapon which can deliver a sustained volume of automatic, accurate, and lethal fire at ranges up to 1000 meters. It will greatly enhance infantry rifle squad effectiveness.

**Launcher, Smoke Grenade (Mod):** \$3.6 million is requested to continue procurement of these protective smoke systems for combat vehicles. This is an effective defense system against antitank missiles.

FORM 1

Department of the Army Annual Budget Estimate <b>JUSTIFICATION</b>		FY 1983  Budget
Appropriation Procurement of Weapons and Tracked Combat Vehicles, Army	Budget Program or Budget Project Account Activity 2 - Weapons and Other Combat Vehicles	

**KM252 81mm Mortar:** \$37.9 million is requested to procure 1204 KM252 81mm mortars. The improved mortar replaces the M30 4.2 inch mortar as the battalion/squadron mortar in all combat units and the M29 81mm mortar as the company mortar for mechanized infantry and cavalry troops. The system is composed of both United Kingdom and US-produced components.

**9mm Personal Defense Weapon (PDW):** \$4.2 million is requested to procure 11,650 9mm handguns. This is the second year of a ten year Army procurement of new 9mm handguns to replace an aging and depleted stock of M1911A1 caliber .45 handguns and caliber .38 revolvers. This will also enhance NATO Rationalization, Standardization and Interoperability (RSI) efforts to standardize all of NATO on 9mm handguns and ammunition.

**Vehicle Rapid Fire Weapons Systems (VRFWS) (BUSHMASTER):** \$35.5 million is requested for the procurement of 532 25mm VRFWS, BUSHMASTER. The BUSHMASTER is the primary armament for the Fighting Vehicle Systems.

**Heading Reference Set (Magnetic Set) (Mod):** \$4.5 million is requested to continue procurement of this item. It is a low-cost unit that provides vehicle heading information to assist the combat vehicle driver maintain orientation during periods of limited visibility.

**Heading Reference Set (Gyro Group) (Mod):** \$1.9 million is requested to continue procurement of the Heading Reference Set-Gyro. It is a directional gyro unit that is used in conjunction with the Heading Reference Set to provide the armored unit commander with more accurate heading information.

**Modifications Under \$900,000:** \$.9 million is requested for modifications to weapons and other combat vehicles.

**Spares and Repair Parts:** \$113.2 million is requested for procurement of initial and replenishment spares and repair parts related to weapons and other combat vehicles.

**Items Less Than \$900,000:** \$2.9 million is requested for procurement of shop sets and tool sets for maintenance and repair of weapons and other combat vehicles.

FORM 1

Department of the Army Annual Budget Estimate <b>JUSTIFICATION</b>		FY 1983  Budget
Appropriation Procurement of Weapons and Tracked Combat Vehicles, Army	Budget Program or Budget Project Account Activity 2 - Weapons and Other Combat Vehicles	

**Production Base Support:** Production base support programs require \$43.4 million in FY 1984. \$8.5 million is for plant equipment package voids at Watervliet Arsenal. Another \$4.0 million is for plant equipment in support of various weapon systems. \$13.3 million is being requested for manufacturing methods and technology, \$1.9 million for layaway of industrial facilities, and \$2.1 million for military adaptation of commercial items. \$1.1 million is required for procurement of capital equipment required to support depot maintenance operations associated with the 9mm Personal Defense Weapon and Squad Automatic Weapon. Additionally, \$12.5 million is for depot support of the DIVAD Gun.

PROCUREMENT OF WEAPONS AND TRACKED COMBAT VEHICLES, ARMY

Section 5

Comparison of Program Requirements and Financing

Comparison of FY 1981 program requirements as reflected in FY 1982 budget with FY 1981 program requirements as shown in the FY 1983 budget.

Comparison of FY 1981 financing as reflected in FY 1982 budget with FY 1981 financing as shown in FY 1983 budget.

Comparison of FY 1982 program requirements as reflected in FY 1982 budget with FY 1982 program requirements as shown in FY 1983 budget.

Comparison of FY 1982 financing as reflected in FY 1982 budget with FY 1982 financing as shown in FY 1983 budget.

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)

Appropriation:	Total Program Requirements Per FY 82 Budget	Program Requirements Per FY 1983 Budget	Increase (+) or Decrease (-)
<b>PROCUREMENT OF WEAPONS AND TRACKED COMBAT VEHICLES</b>			
Activity 1 - Tracked Combat Vehicles.....	3,202,100	3,341,285	+139,185
Activity 2 - Weapons and Tracked Combat Vehicles .....	<u>654,600</u>	<u>661,015</u>	<u>+ 6,415</u>
	3,856,700	4,002,300	+145,600

Explanation By Activity

Activity 1 - Tracked Combat Vehicles - A net increase of \$139.2 million resulted from Congressional adjustments, reductions from the appropriation to finance the National Guard appropriation, a transfer of \$1.9 million from activity 2 to Activity 1 (-\$1.9 machine gun, +1.9 initial spares), and a transfer from other accounts to activity 1 (inflation adjustment).

<u>Item</u>	<u>Net Change (in thousands)</u>
Bradley Fighting Vehicle Systems (BFVS) .....	- 500
BFVS Advance Procurement .....	+ 700
Field Artillery Ammunition Support Vehicle Advance Procurement .....	- 4,000
M88A1 Recovery Vehicle .....	-23,200
Tank, Combat, FT, 105 Gun, M1 .....	+15,900
Tank, Combat, FT, 105mm Gun, M1 Advance Procurement .....	+ 2,700
M1 Training Equipment .....	+ 600
Carrier MOD Roll .....	+ 200
Improved TOW Vehicle (MOD) .....	+ 400
Tank Combat, FT, 105mm Gun M60 Series (MOD).....	+ 2,000
Spares and Repair Parts (TCV) .....	+ 3,400
Production Base Support (TCV).....	+13,300
M1 Tank Surge Capability.....	+126,000
Inflation Adjustment (Revised Economic Assumptions).....	<u>+ 1,685</u>

Total Net Change +139,185

Activity 2 - Weapons and Other Combat Vehicles: A net increase of \$6.4 million resulted from a transfer of \$1.9 million to activity 1, reductions to finance the National Guard appropriation, and a transfer from other accounts to activity 2 (inflation adjustment).

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)

Appropriation:	Total Program	Program Requirements	Increase (+)
PROCUREMENT OF WEAPONS AND TRACKED COMBAT VEHICLES	Requirements	Per FY 1983 Budget	or
	Per FY 82 Budget	Per FY 1983 Budget	Decrease (-)
<u>Item</u>	<u>Net Change (in thousands)</u>		
DIVAD Gun .....		+ 3,600	
DIVAD Advance Procurement .....		+ 600	
Howitzer, Medium, Towed, 155mm M198 .....		+ 900	
Armor Machine Gun, M240 .....		- 1,500	
Squad Automatic Weapon (SAW) .....		+ 200	
Radar Chronograph M90 .....		+ 100	
Vehicle Rapid Fire Weapons System - BUSHMASTER .....		+ 500	
Firing Port Weapon - IFV .....		+ 200	
Howitzer, 155mm, M114A2 (MOD) .....		+ 100	
Launcher, Smoke Grenade (MOD) .....		+ 100	
Spares and Repair Parts (WOCV) .....		+ 600	
Items Less Than \$900,000 (WOCV) .....		+ 100	
Production Base Support (WOCV) .....		+ 915	
Total Net Change		+ 6,415	



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

(In Thousands of Dollars)

Appropriation:	Financing Per FY 1982 Budget	Financing Per FY 1983 Budget	Increase (+) or Decrease (-)
<b>Procurement of Weapons &amp; Tracked Combat Vehicles, Army</b>			
Program Requirements, (Total).....	\$4,570,300	\$4,715,900	\$+145,600
Program Requirements (Service Account).....	(3,856,700)	(4,002,300)	(+145,600)
Program Requirements (Reimbursable).....	( 490,700)	( 713,600)	0
<b>Less:</b>			
Anticipated reimbursements.....	490,700	713,600	0
Reprogramming from prior year budget plans.....	0	0	0
Unobligated balance available from prior year to finance new budget plans.....	0	0	0
Unobligated balance transferred to other accounts.....	0	0	0
<b>Add:</b>			
Unobligated balance transferred to other accounts.....	0	0	0
Unobligated balance available to finance subsequent year budget plans.....	0	0	0
<b>BUDGET AUTHORITY</b>	<b>\$3,856,700</b>	<b>\$4,002,300</b>	<b>+145,600</b>
Budget Authority			
Appropriation.....	\$3,856,700	\$3,951,200	-31,500
Transferred from other accounts.....	0	51,100	+51,100
Transferred to other accounts.....	0	0	0
Appropriation (adjusted).....	3,856,700	4,002,300	145,600

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)

Appropriation:	Total Program Requirements Per FY 82 Budget	Program Requirements Per FY 1983 Budget	Increase (+) or Decrease (-)
<b>Procurement of Weapons &amp; Tracked Combat Vehicles</b>			
Activity 1 - Tracked Combat Vehicles .....	3,072,000	3,071,600	-400
Activity 2 - Weapons and Other Combat Vehicles .....	306,200	302,600	-3,600
	3,378,200	3,374,200	-4,000

EXPLANATION BY ACTIVITY

Activity 1 - Tracked Combat Vehicles - A net decrease of \$400 thousand resulted from the transfer of \$1,600 from M88A1 to the aircraft appropriation account and below threshold reprogrammings within activity 1.

<u>Item</u>	<u>Net Change (in thousands)</u>
Recovery Vehicle, Med, FT, M88A1 .....	-6,500
Tank Combat, FT; 105mm Gun, M1 .....	-2,000
Advance Procurement	
Training Equipment .....	+2,000
Carrier Mod Roll .....	+4,900
Improved Tow Vehicle .....	+1,200
	- 400
Total (Net Change)	- 400

Activity 2 - Weapons and Other Combat Vehicles - A net decrease of \$3,600 thousand resulted from a transfer of \$2,400 thousand to the aircraft appropriation account (Howitzer, Med, Towed, 155mm, M198; magnetic heading set (MHS) and MHS-GYRO), below threshold reprogrammings within the activity and a reprogramming to the DIVAD Gun and DIVAD advance procurement line.

DIVAD Gun .....	-29,100
DIVAD Advance Procurement .....	+29,100
How, Med Towed, 155mm M198 .....	- 400
Magnetic Heading Set (MHS) .....	- 2,200
MHS - Gyro .....	- 1,000
	- 3,600
Total (Net Change)	- 3,600

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

(In Thousands of Dollars)

Appropriation:	Financing Per FY 1982 Budget	Financing Per FY 1983 Budget	Increase (+) or Decrease (-)
<b>Procurement of Weapons &amp; Tracked Combat Vehicles, Army</b>			
Program Requirements, (Total).....	\$4,194,300	\$4,028,530	\$-165,770
Program Requirements (Service Account).....	(3,378,200)	(3,374,200)	(- 4,000)
Program Requirements (Reimbursable).....	( 816,100)	( 654,330)	(-161,770)
<b>Less:</b>			
Anticipated reimbursements.....	816,100	654,330	-161,770
Reprogramming from prior year budget plans.....	0		
Unobligated balance available from prior year to finance new budget plans.....	0	0	0
Unobligated balance transferred from other accounts....	0	0	0
<b>Add:</b>			
Unobligated balance transferred to other accounts.....	0	0	0
Unobligated balance available to finance subsequent year budget plans.....	0		
<b>BUDGET AUTHORITY</b>	<u>\$3,378,200</u>	<u>\$3,374,200</u>	<u>- 4,000</u>
<b>Budget Authority</b>			
Appropriation.....	3,378,200	3,378,200	- 4,000
Transferred from other accounts.....	0	0	0
Transferred to other accounts.....	0	-4,000	0
Appropriation (adjusted).....	<u>3,378,200</u>	<u>3,374,200</u>	<u>- 4,000</u>

PROCUREMENT OF WEAPONS AND TRACKED COMBAT VEHICLES, ARMY

Section 7

Analysis of Unobligated Balances

3 - 38 February 1982

PROCUREMENT OF WEAPONS AND TRACKED COMBAT VEHICLES, ARMY

Analysis of Unobligated Balanced - FY 1983 Programs\*

Summary by Category

<u>Category</u>	<u>Estimated Unobligated</u>	
	<u>Dollars</u> <u>(Millions)</u>	<u>% of Total</u> <u>Unobligated</u>
1. Reserved to support contracts	878,492	75
2. Engineering changes	93,705	8
3. Other	199,125	17
<b>Total Unobligated FY 1983</b>	<b>\$1,171,322</b>	<b>100</b>

EXPLANATION BY CATEGORY

Based on past experience, it is predicted that the above amount will remain unobligated at the end of FY 83. Reasons for the unobligated balance have been grouped into three general categories, and are detailed below. These unobligated amounts will, therefore, be required in subsequent fiscal years to complete the procurement of the FY 83 program.

1. Reserved to Support Contracts:

- a. Amounts reserved for incentive contract payments.
- b. Amounts held to support Product and Component Improvement Programs; modification for retrofit during production; modification ordered by customers.
- c. Contractor claims, reserves to cover potential liabilities for contracts containing escalation clauses for labor, or material cost increases and price redeterminations.
- d. Government-furnished equipment breakout procurements; preparations of manuals and technical data; and reserve for completion of construction elements of production base support facilities projects.
- e. Delay due to design or testing difficulties.
- f. Award protests.
- g. Insufficient procurement detail involving reimbursable orders.
- h. Develop adequate competitive procurement or technical data package.
- i. Items released to Army by other customers too late to permit obligation in FY 1982.

\* Includes estimated FY 1982 and prior years carryover and other customer reimbursable programs.

PROCUREMENT OF WEAPONS AND TRACKED COMBAT VEHICLES, ARMY (Cont'd)

2. Engineering Changes:

- a. Engineering costs in support of production (obligated only as expenses are incurred).
- b. Validated engineering change orders to be incorporated into the current manufacturing process.
- c. Engineering changes as a result of acceptance testing.
- d. Amounts reserved to support engineering change proposals and value engineering proposals.

3. Other:

- a. Changes to the previously planned method of procurement (i.e., competitive in lieu of sole-source).
- b. Extension to bid opening dates.
- c. Additional time required to complete audits of cost data and to obtain contractor cost data.
- d. Unfavorable pre-award surveys and extended negotiations.
- e. Held pending validation of production capability of low bidder.
- f. Attaining a satisfactory production rate prior to awarding additional work.

PROCUREMENT OF WEAPONS AND TRACKED COMBAT VEHICLES, ARMY

Appendix

Consultants, Studies and Analyses, and Management Support Contracts

Exhibit PB-21, Special Analysis

Narrative Justification

FY 1983 PRESIDENT'S BUDGET  
 PD-21, SPECIAL ANALYSIS  
 CONSULTANTS, STUDIES AND ANALYSES  
 AND MANAGEMENT SUPPORT CONTRACTS  
 (DOLLARS IN THOUSANDS)

APPROPRIATION: WEAPONS AND TRACKED COMBAT VEHICLES, ARMY      DATE: 01/25/82

	FY 1981	FY 1982	FY 1983
<b>A. EXPERTS AND CONSULTANTS</b>	<u>168</u>	<u>84</u>	<u>-</u>
1. PERSONNEL APPOINTMENTS	168	84	-
A. EXPERTS	-	-	-
B. CONSULTANTS	(168)	(84)	-
(1) FEDERAL ADVISORY COMMITTEE MEMBERS	-	-	-
(2) ALL OTHER APPOINTED CONSULTANTS	((168))	((84))	-
2. CONTRACT CONSULTANTS	-	-	-
<b>B. CONTRACT STUDIES &amp; ANALYSES</b>	<u>-</u>	<u>-</u>	<u>-</u>
1. CONSULTING SERVICES	-	-	-
2. OTHER	-	-	-
<b>C. PROFESSIONAL AND MANAGEMENT SERVICES BY CONTRACT</b>	<u>-</u>	<u>-</u>	<u>-</u>
1. PROGRAM MANAGEMENT SUPPORT	-	-	-
A. CONSULTING SERVICES	-	-	-
B. OTHER	-	-	-
2. POLICY REVIEW AND DEVELOPMENT	-	-	-
A. CONSULTING SERVICES	-	-	-
B. OTHER	-	-	-
3. SPECIFICATION DEVELOPMENT	-	-	-
A. CONSULTING SERVICES	-	-	-
B. OTHER	-	-	-
4. SYSTEMS ENGINEERING	-	-	-
A. CONSULTING SERVICES	-	-	-
B. OTHER	-	-	-



APPROPRIATION: WEAPONS AND TRACKED COMBAT VEHICLES, ARMY

DATE: 01/25/82

	FY 1981	FY 1982	FY 1983
5. TECHNOLOGY SHARING/ UTILIZATION	-	-	-
A. CONSULTING SERVICES	-	-	-
B. OTHER	-	-	-
6. LOGISTIC SUPPORT SERVICES	-	-	-
A. CONSULTING SERVICES	-	-	-
B. OTHER	-	-	-
7. TECHNICAL DATA COLLECTION	-	-	-
A. CONSULTING SERVICES	-	-	-
B. OTHER	-	-	-
8. PUBLIC RELATIONS AND ADVERTISING	-	-	-
A. CONSULTING SERVICES	-	-	-
B. OTHER	-	-	-
9. OTHER PROFESSIONAL AND MANAGEMENT SERVICES BY CONTRACT	-	-	-
A. CONSULTING SERVICES	-	-	-
B. OTHER	-	-	-
0. CONTRACT ENGINEERING TECHNICAL SERVICES (CETS)	192	862	966
1. CONTRACT PLANT SERVICES	-	-	-
2. CONTRACT FIELD SERVICES	192	862	966
3. FIELD SERVICE REPRESENTATIVES	-	-	-
TOTAL	360	966	966

APPROPRIATION: WEAPONS AND TRACKED COMBAT VEHICLES, ARMY

DATE: 01/25/82

FY 1981

FY 1982

FY 1983

**E. SUMMARY**

1. PERSONAL SERVICES CONTRACTS	-	-	-
2. CONTRACT CONSULTING SERVICES	-	-	-
3. OTHER CONTRACT SERVICES	192	862	966
4. PERSONNEL APPOINTMENTS	168	84	-
<b>TOTAL</b>	<u>360</u>	<u>946</u>	<u>966</u>

**WEAPONS AND TRACKED COMBAT VEHICLES, ARMY**

**NARRATIVE JUSTIFICATION**

**CONSULTANTS, STUDIES AND ANALYSES AND MANAGEMENT SUPPORT CONTRACTS**

1. These funds provide for independent assessment, engineering and design services for measuring the progress of prime and major subcontractors in meeting cost and performance objectives required to achieve scheduled production of Abrams Tank M1 Systems at prescribed monthly rates and in quantities specified.
2. Without these efforts, contractor surveillance and progress measurement would not be possible and quality products would fall short of anticipated goals.
3. The skills required in this area are not available in-house.

**DATE**  
**ILME**