

# Exhibit P-40, Budget Item Justification Sheet

Date:

February 2004

Appropriation/Budget Activity/Serial No:

Procurement of W&TCV, Army /2/Weapons and other combat vehicles

P-1 Item Nomenclature

HOWITZER LT WT 155MM (T) (G01700)

Program Elements for Code B Items:  
0604854A

Code:  
B

Other Related Program Elements:

	Prior Years	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Complete	Total Prog
Proc Qty						18	18	72	125		40	273
Gross Cost			1.1		7.9	37.2	46.8	128.3	191.5	3.5	65.2	481.6
Less PY Adv Proc	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Plus CY Adv Proc	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Net Proc (P-1)			1.1		7.9	37.2	46.8	128.3	191.5	3.5	65.2	481.6
Initial Spares												
Total Proc Cost			1.1		7.9	37.2	46.8	128.3	191.5	3.5	65.2	481.6
Flyaway U/C												
Wpn Sys Proc U/C						2.1	2.6	1.8	1.5		1.6	

## Description:

The Lightweight 155mm Towed Howitzer (LW155) is a Joint USMC/Army Program. A 40% reduction in weight compared to the current system allows for greater strategic and tactical mobility while improving range, weapon stability, accuracy, and durability. Significantly improved battlefield mobility creates a weapon that is more survivable and lethal. The LW155 includes a digital fire control system but retains conventional fire control as a backup. The digital fire control will enable the LW155 Howitzer to emplace faster and without survey, aiming posts or an aiming circle. Digital communications and an on-board antenna eliminate the need for wire to the Fire Direction Center and will increase dispersion and survivability on the battlefield. Modifications to the existing prime mover will enable the howitzer unit to navigate, recharge the system and receive fire missions, all while moving to the next firing position.

The PM is working closely with PM Excalibur to incorporate Excalibur precision Global Positioning System/Inertial Navigation Unit (GPS/INU) guided 155mm projectile compatibility by 4QFY06. LW155 will be the first platform to fire Excalibur, which will provide precision strike capability (10 meter accuracy) out to ranges of 40 kilometers.

This system supports both the Current and Stryker transition paths of the Transformation Campaign Plan (TCP).

## Justification:

FY05 procures 18 Lightweight 155mm Towed Howitzers (LW155). This quantity and the Army's overall procurement of LW155s are planned as a joint multi-year procurement with the United States Marine Corps for FY05-FY08. The LW155 replaces the M198 Towed Howitzer for the U.S. Army and USMC. It must be procured in FY05 to begin replacing the aging, heavier M198 howitzer. The LW155 will be the cannon fire support for the Army's Stryker Brigade Combat Teams.

The United Kingdom and Italy are participating in the development of the LW155 under an MOU and the UK has signed a production MOU with the US.

Exhibit P-5, Weapon WTCV Cost Analysis		Appropriation/Budget Activity/Serial No. Procurement of W&TCV, Army / 2 / Weapons and other combat vehicles			P-1 Line Item Nomenclature: HOWITZER LT WT 155MM (T) (G01700)			Weapon System Type:			Date: February 2004		
WTCV Cost Elements	ID CD				FY 03			FY 04			FY 05		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Units	\$000	\$000	Units	\$000	\$000	Units	\$000	\$000	Units	\$000
1. Titanium/Tooling/Fixtures (BAE)								2839	18	158	1260	18	70
2. Cannon Assembly (Watervliet Arsenal)								828	18	46	828	18	46
3. Howitzer (M777E1)											30582	18	1699
4. ECPs											2409		
5. Engineering Support (OGAs, Spt Kts)											500		
6. Program Management/Admin/Facilities													
7. Software Changes / Updates											1630		
8. Facilitization (Watervliet Arsenal)								4272					
<b>Total</b>								<b>7939</b>			<b>37209</b>		

## Exhibit P-5a, Budget Procurement History and Planning

Date:  
February 2004

Appropriation/Budget Activity/Serial No:  
Procurement of W&TCV, Army / 2 / Weapons and other combat vehicles

Weapon System Type:

P-1 Line Item Nomenclature:  
HOWITZER LT WT 155MM (T) (G01700)

WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Units	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
<b>1. Titanium/Tooling/Fixtures (BAE)</b>										
FY 2002	BAE SYSTEMS Barrow-in-Furness, UK	FFP	Picatinny Arsenal, NJ	Feb 02	N/A					
FY 2004	BAE SYSTEMS Barrow-in-Furness, UK	FFP	Picatinny Arsenal, NJ	Dec 03	Feb 05	18	158			
FY 2005	BAE SYSTEMS Barrow-in-Furness, UK	MYP/FFP	Picatinny Arsenal, NJ	Jan 05	Jan 06	18	70			
FY 2006	BAE SYSTEMS Barrow-in-Furness, UK	MYP/FFP	Picatinny Arsenal, NJ	Jan 06	Jan 07	72	70			
<b>2. Cannon Assembly (Watervliet Arsenal)</b>										
FY 2004	Watervliet Arsenal Watervliet, NY 12189	N/A		Dec 03	Feb 05	18	46			
FY 2005	Watervliet Arsenal Watervliet, NY 12189	N/A		Nov 04	Jan 06	18	46			
FY 2006	Watervliet Arsenal Watervliet, NY 12189	N/A		Nov 06	Jan 07	72	46			
<b>3. Howitzer (M777E1)</b>										
FY 2005	BAE SYSTEMS Barrow-in-Furness, UK	MYP/FFP	Picatinny Arsenal, NJ	Jan 05	Jan 06	18	1699			
FY 2006	BAE SYSTEMS Barrow-in-Furness, UK	MYP/FFP	Picatinny Arsenal, NJ	Jan 06	Jan 07	18	1736			

REMARKS: A joint service multi-year contract is anticipated with the USMC commencing in FY05.







