

Exhibit P-40, Budget Item Justification Sheet						Date: May 2009															
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: 0604854-509		Code: B	Other Related Program Elements:																		
	Prior Years	FY 2008	FY 2009	FY 2010	To Complete	Total Prog															
Proc Qty	113	203	38	53		407															
Gross Cost	268.2	470.6	112.9	157.6		1009.2															
Less PY Adv Proc																					
Plus CY Adv Proc																					
Net Proc P1	268.2	470.6	112.9	157.6		1009.2															
Initial Spares																					
Total Proc Cost	268.2	470.6	112.9	157.6		1009.2															
Flyaway U/C	0.0	0.0	0.0	0.0		0.0															
Weapon System Proc U/C	2.4	2.3	3.0	3.0		10.6															
<p>Description: The Lightweight 155mm Howitzer (LW155), also known as the M777A2, provides direct, reinforcing, and general support fires to maneuver forces. It replaces all howitzers in all missions in the USMC and replaces the M198 howitzer as the general support artillery for light forces in the Army. The LW155 fires unassisted projectiles to a range of 15 miles and assisted projectiles to 19 miles, but the addition of the digital fire control system enables the weapon to program and fire the improved Excalibur precision-guided munition to ranges in excess of 25 miles with better than 10-meter Circular Error Probable (CEP) accuracy. The LW155 is the first ground combat system whose major structures are made of high strength titanium alloy and the system makes extensive use of hydraulics to operate the breech, load tray, recoil and wheel arms. The combination of titanium structures and the use of hydraulic systems resulted in a significant weight savings over the M198 system (>7000 lbs.). Compared to the M198, the LW155 emplaces three-times faster and displaces four-times faster. It traverses 32 percent more terrain worldwide and is 70 percent more survivable than the M198.</p> <p>FY08 production is the final year of a joint FY2005-FY2008 multiyear procurement with the USMC. FY09-FY10 Weapon System procurement unit cost is higher because the Howitzer procurement will be awarded as single year buys.</p> <p>Justification: The LW155 replaces the M198 Towed Howitzer for the U.S. Army and USMC. The LW155 must be procured in FY2010 to continue the replacement of the aging, heavier M198 howitzer. This is scheduled to be the final year of the LW155 production line. The LW155 is the cannon fire support for the Army's Stryker Brigade Combat Teams (SBCT) and is capable of firing the 155mm Excalibur Precision Munition.</p> <p>FY10 Base funding in the amount of \$49,572 million will procure 17 Lightweight 155mm Towed Howitzers (LW155). FY10 Overseas Contingency Operations (OCO) funding in the amount of \$107.996 million will procure 36 Lightweight 155mm Towed Howitzers (LW155).</p> <table style="width: 100%; margin-top: 20px;"> <tr> <td></td> <td></td> <td style="text-align: center;">FY2008</td> <td style="text-align: center;">FY2009</td> <td style="text-align: center;">FY2010</td> </tr> <tr> <td>Active</td> <td style="text-align: center;">QTY</td> <td style="text-align: center;">113</td> <td style="text-align: center;">25</td> <td style="text-align: center;">36</td> </tr> <tr> <td></td> <td style="text-align: center;">Gross Cost</td> <td style="text-align: center;">\$320.749</td> <td style="text-align: center;">\$72.841</td> <td style="text-align: center;">\$111.678</td> </tr> </table>									FY2008	FY2009	FY2010	Active	QTY	113	25	36		Gross Cost	\$320.749	\$72.841	\$111.678
		FY2008	FY2009	FY2010																	
Active	QTY	113	25	36																	
	Gross Cost	\$320.749	\$72.841	\$111.678																	

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Program Elements for Code B Items: 0604854-509		Code: <div style="text-align: center;">B</div>	Other Related Program Elements:														
<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">National Guard</td> <td style="width: 10%;">QTY</td> <td style="width: 10%; text-align: right;">90</td> <td style="width: 10%; text-align: right;">13</td> <td style="width: 10%; text-align: right;">17</td> <td style="width: 45%;"></td> </tr> <tr> <td></td> <td>Gross Cost</td> <td style="text-align: right;">\$149,842</td> <td style="text-align: right;">\$40,030</td> <td style="text-align: right;">\$45,890</td> <td></td> </tr> </table>						National Guard	QTY	90	13	17			Gross Cost	\$149,842	\$40,030	\$45,890	
National Guard	QTY	90	13	17													
	Gross Cost	\$149,842	\$40,030	\$45,890													

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: May 2009			
	WTCV Cost Elements			ID CD	FY 08 Total CostQtyUnit Cost			FY 09 Total CostQtyUnit Cost			FY 10 Total CostQtyUnit Cost		
					\$000	Units	\$000	\$000	Units	\$000	\$000	Units	\$000
WVA Cannon Long Lead													
BAE Lightweight 155mm Howitzer					365400	203	1800	86375	38	2273	120469	53	2273
Watervliet Arsenal Cannon					50750	203	250	9500	38	250	13250	53	250
Primer Feed Mechanism					4060	203	20	798	38	21	1113	53	21
Optical Fire Control					9135	203	45	1824	38	48	2544	53	48
Basic Initial Issue					22629			4236			5908		
Watervliet Arsenal Facilitization													
System Engineering / Program Management					8255			5310			7550		
Test					4680			2250			3138		
Fielding					5682			2578			3596		
Total:					470591			112871			157568		

Exhibit P-5a, Budget Procurement History and Planning									Date: May 2009		
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 \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
BAE Lightweight 155mm Howitzer											
FY 2008	BAE SYSTEMS Barrow-in-Furness, UK		MYP/FFP	Picatinny Arsenal, NJ	Mar 08	Jul 08	203	1800			
FY 2009	BAE SYSTEMS Barrow-in-Furness, UK		SS/FFP	Picatinny Arsenal, NJ	Oct 08	Jul 10	38	2273			
FY 2010	BAE SYSTEMS Barrow-in-Furness, UK		SS/FFP	Picatinny Arsenal, NJ	Oct 09	Dec 10	53	2273			
Watervliet Arsenal Cannon											
FY 2008			MIPR	N/A	Oct 07	Jun 08	203	250			
FY 2009			MIPR	N/A	Oct 08	May 09	38	250			
FY 2010			MIPR	N/A	Oct 09	Sep 10	53	250			
Primer Feed Mechanism											
FY 2008	Triumph Actuator Systems Bloomfield, CT 06002		MYP/FFP	Picatinny Arsenal, NJ	Oct 07	Jun 08	203	20			
FY 2009	Triumph Actuator Systems Bloomfield, CT 06002		SS/FFP	Picatinny Arsenal, NJ	Oct 08	May 09	38	21			
FY 2010	Triumph Actuator Systems Bloomfield, CT 06002		SS/FFP	Picatinny Arsenal, NJ	Oct 09	Sep 10	53	21			
Optical Fire Control											
FY 2008	Seiler Instrument St. Louis, MO 63119		MYP/FFP	Picatinny Arsenal, NJ	Oct 07	Jun 08	203	45			
FY 2009	Seiler Instrument St. Louis, MO 63119		SS/FFP	Picatinny Arsenal, NJ	Oct 08	May 09	38	48			
FY 2010	Seiler Instrument St. Louis, MO 63119		SS/FFP	Picatinny Arsenal, NJ	Oct 09	Sep 10	53	48			
REMARKS: Prior LW155 Towed Howitzer procurement was accomplished through a Multiyear (FY05-FY08) Procurement Contract. Contracts for the procurement of howitzers, primer feed mechanisms, and optical fire control for FY2009 and FY2010 quantities will be awarded as single year buys.											
FY09/FY10 Weapon System procurement unit cost is higher because the Howitzer procurement will be awarded as single year buys.											

FY 09 / 10 BUDGET PRODUCTION SCHEDULE														P-1 ITEM NOMENCLATURE HOWITZER LT WT 155MM (T) (G01700)										Date: May 2009										
COST ELEMENTS						Fiscal Year 09														Fiscal Year 10														Later
M F R	FY	S E R V	PROC QTY Units	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 09														Calendar Year 10														
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					
LW155 (USMC - For Information Only)																																		
1	FY 08	MC	100	24	76	8	8	8	8	8	8	8	8	8	4																		0	
1	FY 09	FMS	25	1	24																												4	
1	FY 09	MC	24	0	24																												0	
1	FY 10	FMS	35	0	35																												35	
1	FY 10	MC	18	0	18																												18	
Lightweight 155mm Towed Howitzer (LW155)																																		
1	FY 08	A	203	24	179	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	5	4	2	0	
1	FY 09	A	38	0	38	A																											15	
1	FY 10	A	53	0	53																												53	
Total					447	16	16	16	16	16	16	16	16	16	12	8	8	8	12	12	12	12	12	12	12	12	12	12	12	16	16	14	125	
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					
M F R	Name - Location					PRODUCTION RATES			Reached D+	MFR 1	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS																			
						MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct			The FY05-08 Full Rate Production Contract is a Joint Multi-Year procurement with the USMC. This Multi-Year Contract was awarded in March 2005. Admin and Production Leadtimes are from the original FY05 buy.																			
1	BAE SYSTEMS, Barrow-in-Furness, UK					48	192	192			Initial	0	1	11	12																			
											Reorder	0	1	14	15																			
											Initial																							
											Reorder																							
											Initial																							
											Reorder																							
											Initial																							
											Reorder																							
											Initial																							
											Reorder																							

FY 11 / 12 BUDGET PRODUCTION SCHEDULE										P-1 ITEM NOMENCLATURE HOWITZER LT WT 155MM (T) (G01700)										Date: May 2009										
COST ELEMENTS						Fiscal Year 11										Fiscal Year 12										Later				
M F R	FY	S E R V	PROC QTY Units	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 11										Calendar Year 12														
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y		J U N	J U L	A U G	S E P
LW155 (USMC - For Information Only)																														
1	FY 08	MC	100	100																									0	
1	FY 09	FMS	25	21	4	4																							0	
1	FY 09	MC	24	24																									0	
1	FY 10	FMS	35	0	35						4	5	5	5	5	5	5	1											0	
1	FY 10	MC	18	0	18		2	5	5	5	1																		0	
Lightweight 155mm Towed Howitzer (LW155)																														
1	FY 08	A	203	203																									0	
1	FY 09	A	38	23	15	8	7																						0	
1	FY 10	A	53	0	53			5	5	5	5	5	5	5	5	5	3												0	
Total					125	12	9	10	10	10	10	10	10	10	10	10	4													
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	
M F R	Name - Location					PRODUCTION RATES			Reached	MFR			ADMIN LEAD TIME		MFR	TOTAL	REMARKS													
						MIN	1-8-5	MAX	D+	1	Initial	Prior 1 Oct	After 1 Oct	After 1 Oct	After 1 Oct															
1	BAE SYSTEMS, Barrow-in-Furness, UK					48	192	192			Reorder	0	1	14	15															
											Initial																			
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