

Exhibit P-40, Budget Item Justification Sheet								Date: <div style="text-align: right;">February 2010</div>		
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 2009	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	To Complete	Total Prog
Proc Qty	316	38	53	14						421
Gross Cost	733.1	120.9	157.4	62.0						1073.3
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	733.1	120.9	157.4	62.0						1073.3
Initial Spares										
Total Proc Cost	733.1	120.9	157.4	62.0						1073.3
Flyaway U/C										
Weapon System Proc U/C										
P-40 Breakdown										
Area		FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015		
Active	Qty	25	36	14	0	0	0	0		
	Gross Cost	80841.0	111525.0	62000.0	0.0	0.0	0.0	0.0		
National Guard	Qty	13	17	0	0	0	0	0		
	Gross Cost	40030.0	45890.0	0.0	0.0	0.0	0.0	0.0		
Reserve	Qty	0	0	0	0	0	0	0		
	Gross Cost	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Total	Qty	38	53	14	0	0	0	0		
	Gross Cost	120871	157415	62000	0	0	0	0		
<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>Justification: FY11 Overseas Contingency Operations (OCO) procurement dollars in the amount of \$62.000 million procures 14 M777 Light Weight 155MM Howitzers. It also supports Interim Contractor Support for all guns in theater. Finally it provides for Capability Package to address usage problems encountered in Afghanistan - Hydraulic Power Assist (HYPAK), Muzzle Velocity Radar, and</p>										

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<p>Power Distribution Systems. The HYPAK assists the howitzer crew in elevating the howitzer when emplacing and displacing. This increases responsiveness and survivability and addresses the types of missions being conducted in Forward Operating Bases. The Muzzle Velocity Radar is an off-the-shelf replacement for the radar used since the earlier M198 howitzer and which has proven to be problematic. The Power Distribution upgrade allows for use of AC power to recharge on-board batteries that power digital components. Current method of recharge is through running of prime mover (MTVR) and due to 24 hour operations has degraded MTVR assets in theater.</p> <p>The LW155 replaces the M198 Towed Howitzer for the U.S. Army and USMC. The LW155 must be procured in FY2011 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. These guns are needed for the reorganized Fires Battalions.</p>		

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 2010		
WTCV Cost Elements	ID	FY 09			FY 10			FY 11		
	CD	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
		\$000	Units	\$000	\$000	Units	\$000	\$000	Units	\$000
BAE Lightweight 155mm Howitzer		86375	38	2273	124550	53	2350	32900	14	2350
Watervliet Arsenal Cannon		9500	38	250	13250	53	250	3500	14	250
Primer Feed Mechanism		798	38	21	1060	53	20	280	14	20
Optical Fire Control		1824	38	48	2332	53	44	616	14	44
Basic Initial Issue		5908			1316			340		
System Engineering / Program Management		8500			7985			2524		
Test		3250			1767			490		
Fielding		4716			5155			1350		
Interim Contractor Support (ICS)								12000		
Capability Package 1								8000		
Total:		120871			157415			62000		

Exhibit P-5a, Budget Procurement History and Planning									Date: February 2010		
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 2009	BAE SYSTEMS Barrow-in-Furness, UK	SS/FFP	Picatinny Arsenal, NJ	Jul 09	Oct 10	38	2273				
FY 2010	BAE SYSTEMS Barrow-in-Furness, UK	SS/FFP	Picatinny Arsenal, NJ	Mar 10	Oct 11	53	2350				
FY 2011	BAE SYSTEMS Barrow-in-Furness, UK	SS/FFP	Picatinny Arsenal, NJ	Dec 10	Aug 12	14	2350				
Watervliet Arsenal Cannon											
FY 2009	Watervliet Arsenal Watervliet, NY 12189	MIPR	N/A	Oct 08	May 09	38	250				
FY 2010	Watervliet Arsenal Watervliet, NY 12189	MIPR	N/A	Jan 10	May 10	53	250				
FY 2011	Watervliet Arsenal Watervliet, NY 12189	MIPR	N/A	Oct 10	May 11	14	250				
Primer Feed Mechanism											
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	Jan 10	May 10	53	20				
FY 2011	Triumph Actuator Systems Bloomfield, CT 06002	SS/FFP	Picatinny Arsenal, NJ	Oct 10	May 11	14	20				
Optical Fire Control											
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	Jan 10	May 10	53	44				
FY 2011	Seiler Instrument St. Louis, MO 63119	SS/FFP	Picatinny Arsenal, NJ	Oct 10	May 11	14	44				
REMARKS:											

FY 09 / 10 BUDGET PRODUCTION SCHEDULE													P-1 ITEM NOMENCLATURE HOWITZER LT WT 155MM (T) (G01700)										Date: February 2010										
COST ELEMENTS						Fiscal Year 09													Fiscal Year 10													Later	
MFR	FY	SERV	PROC QTY x1000	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT				Calendar Year 09												Calendar Year 10												
						OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP				
BAE Lightweight 155mm Howitzer																																	
1	FY 08	A	203	14	189	7	7	7	7	7	7	7	7	7	7	7	7	7	6	10	10	10	10	10	10	10	10	10	5	0			
1	FY 08	MC	100	0	100	7	7	7	7	7	7	7	7	7	7	7	7	5	4											0			
1	FY 09	A	25	25																										0			
1	FY 09	NG	13	13																										0			
1	FY 09	TOT	38	0	38										A															38			
1	FY 09	MC	62	0	62										A													5	57				
1	FY 09	FMS	25	0	25										A															25			
1	FY 10	A	36	36																										0			
1	FY 10	NG	17	17																										0			
1	FY 10	TOT	53	0	53																		A							53			
1	FY 10	MC	18	0	18																		A							18			
1	FY 10	FMS	35	0	35																		A							35			
1	FY 11	A	14	0	14																									14			
1	FY 11	MC	22	0	22																									22			
Total					556	14	14	14	14	14	14	14	14	14	14	14	14	12	10	10	10	10	10	10	10	10	10	10	10	262			
						OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP				
MFR	Name - Location							PRODUCTION RATES			Reached D+	MFR		ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS															
								MIN	1-8-5	MAX				Prior 1 Oct	After 1 Oct																		
1	BAE SYSTEMS, Barrow-in-Fumess, UK							48	192	192		1	Initial	0	1	11	12																
												Reorder	0	3	20	23																	
												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: February 2010										
COST ELEMENTS						Fiscal Year 11										Fiscal Year 12										Later				
MFR	FY	SERV	PROC QTY x1000	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 11										Calendar Year 12														
						OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY		JUN	JUL	AUG	SEP
BAE Lightweight 155mm Howitzer																														
1	FY 08	A	203	203																									0	
1	FY 08	MC	100	100																									0	
1	FY 09	A	25	25																									0	
1	FY 09	NG	13	13																									0	
1	FY 09	TOT	38	0	38	5	5	5	5	5	5	5	3																0	
1	FY 09	MC	62	5	57	5	5	5	5	5	5	5	7	10	5														0	
1	FY 09	FMS	25	0	25										5	10	10												0	
1	FY 10	A	36	36																									0	
1	FY 10	NG	17	17																									0	
1	FY 10	TOT	53	0	53											5	5	5	7	10	10	10	1						0	
1	FY 10	MC	18	0	18											5	5	5	3										0	
1	FY 10	FMS	35	0	35																		9	10	10	6			0	
1	FY 11	A	14	0	14			A																		2	5		7	
1	FY 11	MC	22	0	22			A																		2	5		15	
Total						262	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	22
						OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	

MFR	Name - Location	PRODUCTION RATES			Reached D+	MFR		ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS
		MIN	1-8-5	MAX				Prior 1 Oct	After 1 Oct			
1	BAE SYSTEMS, Barrow-in-Fumess, UK	48	192	192		1	Initial	0	1	11	12	
							Reorder	0	3	20	23	
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					

FY 13 / 14 BUDGET PRODUCTION SCHEDULE										P-1 ITEM NOMENCLATURE HOWITZER LT WT 155MM (T) (G01700)										Date: February 2010									
COST ELEMENTS						Fiscal Year 13										Fiscal Year 14										Later			
MFR	FY	SERV	PROC QTY x1000	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 13										Calendar Year 14													
						OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY		JUN	JUL	AUG
BAE Lightweight 155mm Howitzer																													
1	FY 08	A	203	203																									0
1	FY 08	MC	100	100																									0
1	FY 09	A	25	25																									0
1	FY 09	NG	13	13																									0
1	FY 09	TOT	38	38																									0
1	FY 09	MC	62	62																									0
1	FY 09	FMS	25	25																									0
1	FY 10	A	36	36																									0
1	FY 10	NG	17	17																									0
1	FY 10	TOT	53	53																									0
1	FY 10	MC	18	18																									0
1	FY 10	FMS	35	35																									0
1	FY 11	A	14	7	7	5	2																						0
1	FY 11	MC	22	7	15	5	8	2																					0
Total					22	10	10	2																					
					OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	

MFR	Name - Location	PRODUCTION RATES			Reached D+	MFR		ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS
		MIN	1-8-5	MAX				Prior 1 Oct	After 1 Oct			
1	BAE SYSTEMS, Barrow-in-Fumess, UK	48	192	192		1	Initial	0	1	11	12	
							Reorder	0	3	20	23	
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					