ANNEX K

ITEM QUANTITIES

TO

PURCHASE DESCRIPTION

FOR

JOINT LIGHT TACTICAL VEHICLE

VERSION 3.0.2

8TH MARCH 2012

Revision History

Revision	Date	Description
3.0	20th January 2012	RFP Release.
3.0.1	13th February 2012	Table 2 – corrected JCR/JBC-P superscripts Table 2 – added "all crew positions" to Intercom System Kit Table 3 – Changed MK-197 to "M197" Table 3 – Deleted UHF SATCOM and added "/114" to VRC-103 Table 4 – Deleted UHF SATCOM and added "/114" to VRC-103 Revision history truncated to start at v3.0.
3.0.2	8th March 2012	No requirement changes. Date and version number changed to match rest of the PD.

1 SCOPE

Annex K defines the JLTV Item Quantities.

2 Applicable Documents

There are no Applicable Documents specific to Annex K.

3 JLTV Requirements

3.1 Base Vehicle Platforms: Infrastructure Required for Standard Equipment

Contractor furnished Infrastructure shall provide field level maintainers the ability to add Standard Equipment to Base Vehicle Platforms without vehicle re-work (e.g. ability to directly mount a SINCGARS tray). Infrastructure is defined as all necessary cabling (power, signal, RF), connector(s) near the location of each LRU, and mechanical attachment points to support the mounting of Standard Equipment. Infrastructure is anticipated to include a CFE C4ISR/EW Network (e.g. GigE switch/router, cabling, etc) for a single enclave. Standard Equipment includes both GFE and CFE and is defined in Table 1.

	Standard Equipment	Quantities			
		GP	CCWC	UTL	T
Government Furnished	GB-GRAM (receiver and antenna)	1	1	1	
	SINCGARS - AN/VRC-110 DVA Radio Kit (2x - RT, Amp., and Ant.)	1[1]	1[1]	1[1]	
	SINCGARS - AN/VRC-90/91/92 Radio Kit (2x - RT, Amp., and Ant.)				
	EPLRS Radio Kit (RT, Amp., Ant.)	1	1		
	SATCOM - MT-2011 (L BAND BFT I) Antenna Transceiver	1[1]	1[1]	1[1]	
	SATCOM - RT1981/V (L Band BFT II) Antenna Transceiver				
	KGV-72 PIED for MT-2011	1[1]	1[1]	1[1]	
	KGV-72 PIED for RT1981/V				
	CREW - CVRJ 2.1 V2	1[1]	1[1]	1[1]	
	CREW - Duke V3				
	DVE (sensor, display, electronic pan tilt)	1	1	1	
	5 Gal. Jerry Cans	2	2	2	
	Field Pack, Lg Univ. Camo Set	4	4	2	
Contractor Furnished	Driver Smart Display Unit (DSDU) Kit	1	1	1	
	Commander Smart Display Unit (CSDU) Kit	1	1	1	
	Intercom System Kit (for Driver and Commander ONLY)	1	1	1	
	Protection Level 1 B-kit armor	1[1]	1[1]	1[1]	
	Protection Level 2 B-kit armor				
	Winch Kit	1	1	1	
	Flat Tow Kit	1	1	1	
	Fording Kit	1	1	1	
	Spare Tire Kit	1	1	1	
	Run-Flat Kit	1	1	1	

	Standard Equipment	Quantities			
		GP	CCWC	UTL	T
	Combat Bumper Kit	1	1	1	
	Cargo Covering Kit			1	
	120mm Quickstow Mortar Kit				1
	Soft Top Kit				1

Table 1 - JLTV Base Vehicle Platforms Standard Equipment

NOTE:

1. Infrastructure shall have all necessary cabling, connectors, and mechanical attachment points for ALL of these items. Space is only required for one of the items at any one time.

3.2 Mission Package Configurations

Each Mission Package Configuration is fully defined by both the integration of the Baseline equipment specified in Table 2 and the ability to integrate the Expansion equipment specified in Table 3. Depending on vehicle design, Base Vehicle Platforms may require a Baseline Integration Kit in order to integrate the equipment on Table 2.

3.2.1 Baseline Integration Kits

Contractor furnished Baseline Integration Kits are unique for each Mission Package Configuration (e.g. GP Baseline Integration Kit, HCG Baseline Integration Kit) and consist of all necessary cabling (power, signal, RF), connector(s) near the location of each LRU, and attachment hardware required above and beyond the Infrastructure, to integrate the Baseline equipment quantities in Table 2. Baseline Integration Kits are anticipated to include a CFE C4ISR/EW Network (e.g. GigE switch/router, cabling, etc) for single enclave. Baseline equipment includes both GFE and CFE and is defined in Table 2.

	Kits and Mission Essential Equipment	Quantities			
		GP	HGC	CCWC	UTL
Government Furnished	GB-GRAM (receiver and antenna)	1	1	1	1
	SINCGARS - AN/VRC-110 DVA Radio Kit (2x - RT, Amp., and Ant.)	1[1]	1[1]	1[1]	1[1]
	SINCGARS - AN/VRC-90/91/92 Radio Kit (2x - RT, Amp., and Ant.)				
	EPLRS Radio Kit (RT, Amp., Ant.)	1[1,2]	1[1,2]	1[1,2]	
	SATCOM - MT-2011 (L BAND BFT I) Antenna Transceiver				
	SATCOM - RT1981/V (L Band BFT II) Antenna Transceiver				
	KGV-72 PIED for MT-2011 **or** RT1981/V	1	1	1	1
	SATCOM - MT-2012 (L BAND MTS) Antenna Transceiver				1
	CREW - CVRJ 2.1 V2	1[1]	1[1]	1[1]	1[1]
	CREW - Duke V3				

	Kits and Mission Essential Equipment	Quantities			
		GP	HGC	CCWC	UTL
	JCR Software	1[3]	1[3]	1[3]	1[3]
	JBC-P Software				
	DVE (sensor, display, electronic pan tilt)	1	1	1	1
	JCIMS (CID Beacon)	1	1	1	1
	Shot Detection	1	1		
	LRAS-3		1[1]		
	LRAS-3 with Fire Support Sensor System (FS3)				
	TOW/ITAS (USA)			1[1]	
	SABER (USMC)				
	MCTAGS GPK	1[1]	1[1]		
	OGPK 2.0				
	TOW-GPK			1	
	Improved Turret Drive System (ITDS)	1	1	1	
	5 Gal. Jerry Cans	2	2	2	2
	Veh. Med. Aid Kit (Vehicle Medical Bag (M9))	1	1	1	1
	Ammunition Cans (quantities in Annex G)	Annex G	Annex G	Annex G	Annex G
	Field Pack, Lg Univ. Camo Set	4	4	4	2
Contractor Furnished	Intercom System Kit (for all crew positions)	1	1	1	1
	DSDU Kit	1	1	1	1
	CSDU Kit	1	1	1	1
	Exportable Electric Power Kit				1
	Cargo Covering Kit				1

Table 2 - JLTV Mission Package Configurations – Baseline Equipment

NOTES:

1. Baseline Integration Kits shall have all necessary cabling, connectors, and mechanical attachment points for ALL of these items. Space is only required for one of the items at any one time.
2. The JLTV shall be able to integrate EPLRS, SATCOM (BFT I), or SATCOM (BFT II) to support FBCB2/JBC-P.
3. Either JCR or JBC-P software will be installed on display/computing devices.

3.2.2 Expansion Kits

Depending on vehicle design, the equipment on Table 3 may require Contractor furnished Expansion Kits in order to be integrated. Expansion Kits would consist of all necessary cabling (power, signal, RF), connector(s), and hardware required above and beyond the Contractor Furnished Infrastructure and Baseline Integration Kits. Expansion equipment includes both GFE and CFE and is defined in Table 3.

	Kits and Mission Essential Equipment	Quantities			
		GP	HGC	CCWC	UTL
Government Furnished	SINCGARS – AN/VRC-110 DVA Radio Kit (2x – RT, Amp., and Ant.)	2[6]	1	1	1
	SINCGARS – AN/VRC-90/91/92 Radio Kit (2x – RT, Amp., and Ant.)				
	VRC-103/114 Radio Kit (RT, Amp., and Ant.)	1	1	1	
	HF VRC-104 Radio Kit (RT, Amp., and Ant.)	1	1	1	
	SATCOM - MT-2011 (L BAND BFT I) Antenna Transceiver				1[1]
	SATCOM - RT1981/V (L Band BFT II) Antenna Transceiver				1[1]
	JTRS HMS Radio Kit (RT, Amps., and Ants.)	1	1	1	1
	OSRVT Transceiver	1	1	1	
	TACLINK Modem – USB – AFATDS Only	2[7]			
	TACLINK Modem – PCMCIA – AFATDS Only				
	AFATDS Software	1			
	C2PC Software	1			
	OSRVT Software	1	1	1	
	LRAS-3	1			
	LRAS-3 with Fire Support Sensor System (FS3)	1			
	Common CBRN Sensor	1	1	1	1
	MK-19 40mm Automatic Grenade Launcher (AGL) - Primary weapon	1[2]	1[2]	1[2]	
	MK-47 40mm Advanced Lightweight Grenade Launcher (ALGL) - Primary weapon	1[2]	1[2]	1[2]	
	M2 .50 cal Machine Gun - Primary Weapon	1[2]	1[2]	1[2]	
	M240B 7.62mm Machine Gun - Secondary weapon	1[2]	1[2]	1[2]	
	M249 Machine Gun 5.56mm squad automatic weapon - Secondary weapon	1[2]	1[2]	1[2]	
	MK-93 Weapons Mount (for M2 or MK-19)	1[2]	1[2]	1[2]	
	M197 Weapons Mount (for M240B or M249)	1[2]	1[2]	1[2]	
	MK-107 Weapons Mount (for ALGL)	1[2]	1[2]	1[2]	
	MCTAGS GPK			1	
	OGPK 2.0			1	
	CROWS Baseline v2	1[3]	1[3]	1[3]	1
	LVOSS (M310 Installation Kit w/M7 Launcher)	1	1	1	1
	CPP Shelter				1[4]
	SICPS (S-787) Shelter				1[4]
	SECM Shelter				1[4]
	S-250 Shelter				1[4]
	S-250G Shelter				1[4]
	S-788 Shelter				1[4]
	S-832 Shelter				1[4]
	S-842 Shelter				1[4]
Contractor Furnished	ASDU Kit	1 and 2	1	1	
	Exportable Electric Power Kit[5]	1	1	1	
	Silent Watch Energy Storage Kit	1	1	1	1
	Power Expansion Kit	1	1	1	1
	B-kit armor	1	1	1	1
	Engine Arctic Kit	1	1	1	1
	Winch Kit	1	1	1	1
	Flat Tow Kit	1	1	1	1

Kits and Mission Essential Equipment	Quantities			
	GP	HGC	CCWC	UTL
Fording Kit	1	1	1	1
RPG Protection Kit	1	1	1	1
Spare Tire Kit	1	1	1	1
Run-Flat Kit	1	1	1	1
EFP Protection Kit	1	1	1	1
Combat Bumper Kit	1	1	1	1

Table 3 - JLTV Mission Package Configurations – Expansion Equipment

NOTES:

1. The JLTV-UTL shall be able to integrate any of the following: MT-2011 (BFT I) or RT-1981/V (BFT II) or MT-2012 (MTS). However, it is not required to integrate more than one of these systems concurrently.
2. The JLTV (without GPK) shall have the ability to integrate any of the weapons and mounts listed. However, it is not required to accept more than one (1) vehicle mount concurrently.
3. The JLTV (except JLTV-UTL) shall have the ability to integrate either the CROWS or a GPK, however it is not required to accept both systems concurrently.
4. The JLTV will only need to mount a single shelter at a time.
5. The expected mission duration utilization for the Exportable Electric Power Kit is 46% IAW PDFOV-1234.
6. Expansion Kits shall have all necessary cabling, connectors, and mechanical attachment points for ALL of these items. Space is only required for one of the items at any one time.
7. The TACLINK modems shall either be USB or PCMCIA or a combination of both, but not exceeding two (2) devices in total.

3.2.3 Silent Watch Power Requirement

Contractor furnished silent watch energy storage capability shall provide sufficient power storage, when the vehicle engine is not running, to minimally power the following equipment and systems (as equipped per Tables 2 and 3), in accordance with Table 4. Any additional equipment (e.g. Contractor furnished network devices) used to enable functionality of Table 4 equipment and systems shall be included in the silent watch energy storage capability. The expected mission duration utilization for the silent watch energy storage capability is 12% IAW PDFOV-1261.

Equipment and Systems	# of Devices Powered in Silent Watch	Duty Cycle Peak Power	Duty Cycle Nominal Power
GB-GRAM (receiver and antenna)	1	100%	0%
SINCGARS - AN/VRC-110 DVA Radio Kit (2x - RT, Amp., and Ant.)	1	10%	90%
SINCGARS - AN/VRC-90/91/92 Radio Kit (2x - RT, Amp., and Ant.)	1	10%	90%
VRC-103/114 Radio Kit (RT, Amp., and Ant.)	1	10%	90%
HF VRC-104 Radio Kit (RT, Amp., and Ant.)	1	10%	90%
EPLRS Radio Kit (RT, Amp., and Ant.)	1	95%	5%
SATCOM - MT-2011 (L BAND BFT I) Antenna Transceiver	1	95%	5%
SATCOM - RT1981/V (L Band BFT II) Antenna Transceiver	1	95%	5%
SATCOM - MT-2012 (L BAND MTS) Antenna Transceiver	1	80%	20%

Equipment and Systems	# of Devices Powered in Silent Watch	Duty Cycle Peak Power	Duty Cycle Nominal Power
KGV-72 PIED for MT-2011	1	95%	5%
OSRVT Transceiver	1	100%	0%
JCR Software **OR** JBC-P Software	1	95%	5%
CROWS Baseline v2	1	5%	95%
120 VAC power outlets (convenience outlets)	1	25%	75%
Intercom System Kit	1	90%	10%
DSDU Kit	1	100%	0%
CSDU Kit	1	100%	0%
ASDU Kit	2	100%	0%
Power Expansion Kit	1	100%	0%

Table 4 - Silent Watch Powered Equipment and Duty Cycles

3.3 Future JLTV C4I Systems Growth

The JLTV GP Base Vehicle Platform will have the ability in the future to accept the growth of C4ISR/EW systems as defined in Table 5. These systems are comprised of both GFE and CFE. The Statement of Work (SOW) and related C4I growth Attachment defines the requirements for these systems.

Equipment and Systems	GFE or CFE	Quantities	Notes
WIN-T Inc2 Point of Presence (PoP)	GFE	1	WIN-T network management application hosted on CFE computer/display devices.
WIN-T Inc2 Soldier Network Extension (SNE)	GFE	1	WIN-T network management application hosted on CFE computer/display devices.
Command Post of the Future (CPOF)	GFE	1	CPOF GFE application hosted on CFE computer/display device(s).
Enhanced Modular Computing Unit (EMCU)	CFE	1	
Auxiliary Display Unit (ADU)	CFE	2	
Cross Domain – Access	CFE	Design Specific	
Cross Domain – Transfer	CFE	Design Specific	
Multi-enclave Ethernet Vehicle Networking	CFE	Design Specific	

Table 5 – JLTV Future C4I Systems