Section 6 .6 PEO LS Program

JOINT LIGHT TACTICAL VEHICLE

Program Background

The Joint Light Tactical Vehicle (JLTV) is a major Army-Marine Corps defense acquisition program that addresses a new-generation tactical wheeled vehicle to replace a portion of the Services' HMMWV fleet. The program's aim is to develop a new multi-mission light tactical vehicle family with superior crew protection and performance as compared to current HMMWVs. The JLTV family will balance critical weight and transportability constraints against performance, protection, and payload requirements while ensuring an affordable solution for the Army and USMC.

The development of the JLTV reinforces the Services' approach to interoperable platforms that provide expeditionary and protected maneuver capabilities to forces that are currently supported by HMMWVs. The JLTV will also improve payload efficiency through state-of-the-art chassis engineering, enabling the vehicles to be deployed with the appropriate level of force protection through the use of scalable armor solutions. Expected JLTV fleet reliability and fuel efficiency targets will be significantly greater than the current HMMWV fleet, providing millions of dollars in savings over the JLTV life cycle.

The Marine Corps intends to acquire 5,500 JLTVs with Full Operational Capability by the end of FY22.

Program Status

The JLTV program is currently in the EMD phase. On August 22, 2012, PM JLTV awarded three EMD awards to AM General LLC, Lockheed Martin Corporation, and Oshkosh Corporation. These EMD vendors each delivered 22 full-up prototypes on or ahead of schedule and are currently engaged in a comprehensive 14-month Government test program, including blast, automotive, and reliability testing, which will be followed by a limited user test. The program is on schedule for a Milestone C, and an eight-year Low-Rate Initial Production/Full Rate Production contract is planned to be awarded in late FY15.

JLTV'S Top Three Program Technology Issues:

1. Weight/Armor

The JLTV design must meet competing requirements for a balanced solution of protection, payload, and performance. Although the JLTV armor system can meet the functional requirements, it is a weight driver. Therefore, add-on armor solutions that can reduce vehicle weight but still meet the force protection requirements are critical to the success of the JLTV program. Lower weight, affordable transparent armor and Explosively Formed Penetrator (EFP)

kit solutions are also needed. Because of stringent affordability constraints on the program, the armor solution must be in the price range of current JLTV armor solutions.

2. Corrosion Resistance

The JLTV will be stored and maintained for long durations in pre-positioned stocks ashore and at sea, in outdoor motor pools, and in other areas where it will be exposed to salt air, rain, snow, heat, cold, and other corrosive environments that must be mitigated. Corrosion-resistant technologies will reduce total ownership costs and provide a significant increase in equipment readiness.

3. JLTV-CCWC Missile Reloading Design

The JLTV-Close Combat Weapons Carrier (CCWC) is the mission package configuration for employment of the TOW/SABER. During the course of the JLTV EMD phase, the warfighter operational requirements for the TOW/SABER system are evolving and, as a result of the current EMD phase designs for JLTV TOW integration, the requirement for the TOW/SABER system integration may become obsolete. A design effort to integrate TOW/ITAS components and capabilities on a CCWC is needed (independent of the vendors competing for the Low-Rate Initial Production contract) as a risk reduction initiative in the event that the design proposed by the vendor selected for LRIP does not satisfy the revised operational requirements. The required system design includes a securable rear cargo box capable of accommodating TOW/SABER weapon system components, missiles, and loading/reloading capabilities in accordance with the JLTV system specifications and the TOW system Initial Capabilities Document for JLTV.

14 Feb 14

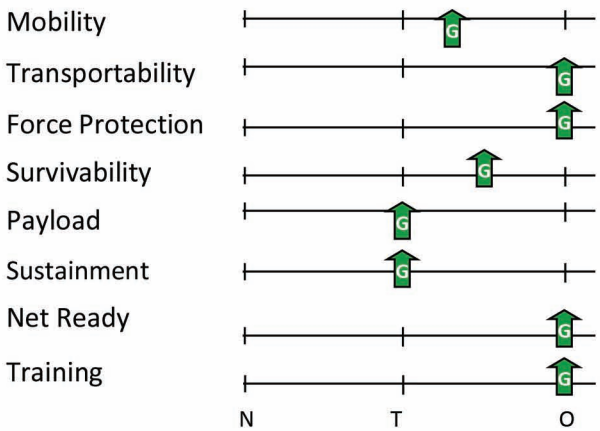
ACAT I D / EMD

C Y S G P G

JLTV

MS C = May 15 (O)/ Nov 15 (T) **AAO** = 5500
IOC = May 18 (O)/Nov 18 (T)

Description: JLTV focuses on procuring a family of light tactical vehicles for combat mission roles, providing increased survivability, mobility, payload and reliability over the current family of HMMWVs. JLTVs will provide a high level of scalable protection, improved sustainment, and net-ready maneuver platforms which are tactically mobile across all terrain.



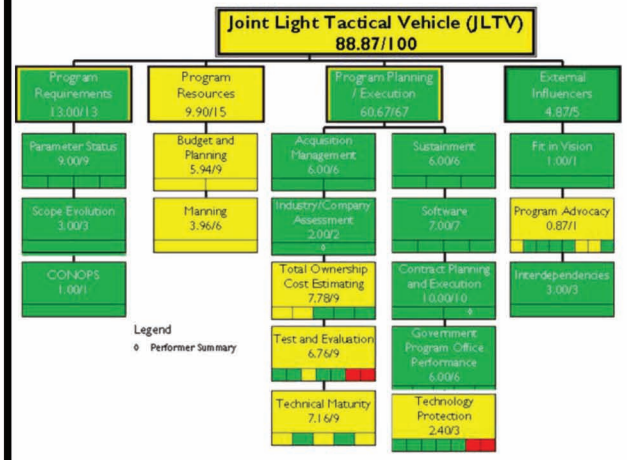
*Based on estimated and calculated values
N – no capability **T** – Threshold **O** - Objective

Contracts Data
Fixed Price
Contractors AMG, OSH, LM
Start – Complete Aug 12 – Nov 14

Next Contract: LRIP = Jul 15
DCMA = G

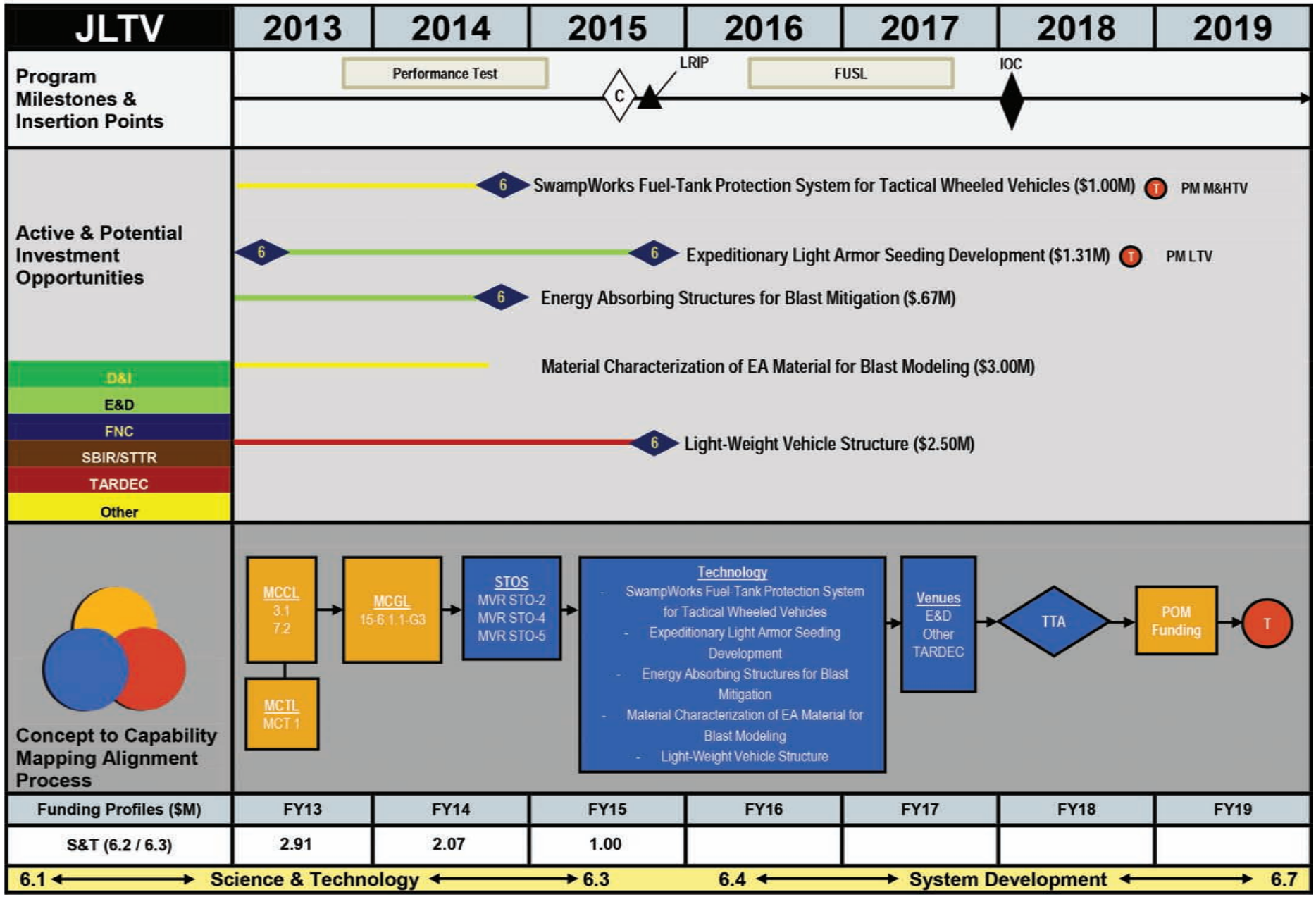
CPI = NA SPI = NA
EAC = NA

Issues:



PROGRAM	FY12				FY13				FY14				FY15				FY16				FY17				FY18			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Milestones & Phases				MS B												MS C										IOC		
SETR Reviews				SOW M/SRR		DUR			MRA		FCA		SVR/PRR											PCA				
Test Events				Performance Test					RAM				LUT						FUSL						MOT&E			
Contract Events				EMD	Award								RFP			LRIP	Award											
Qtys					0				0				15 (8 R&D)				99 (9 R&D)				245				1100 (1 R&D)			

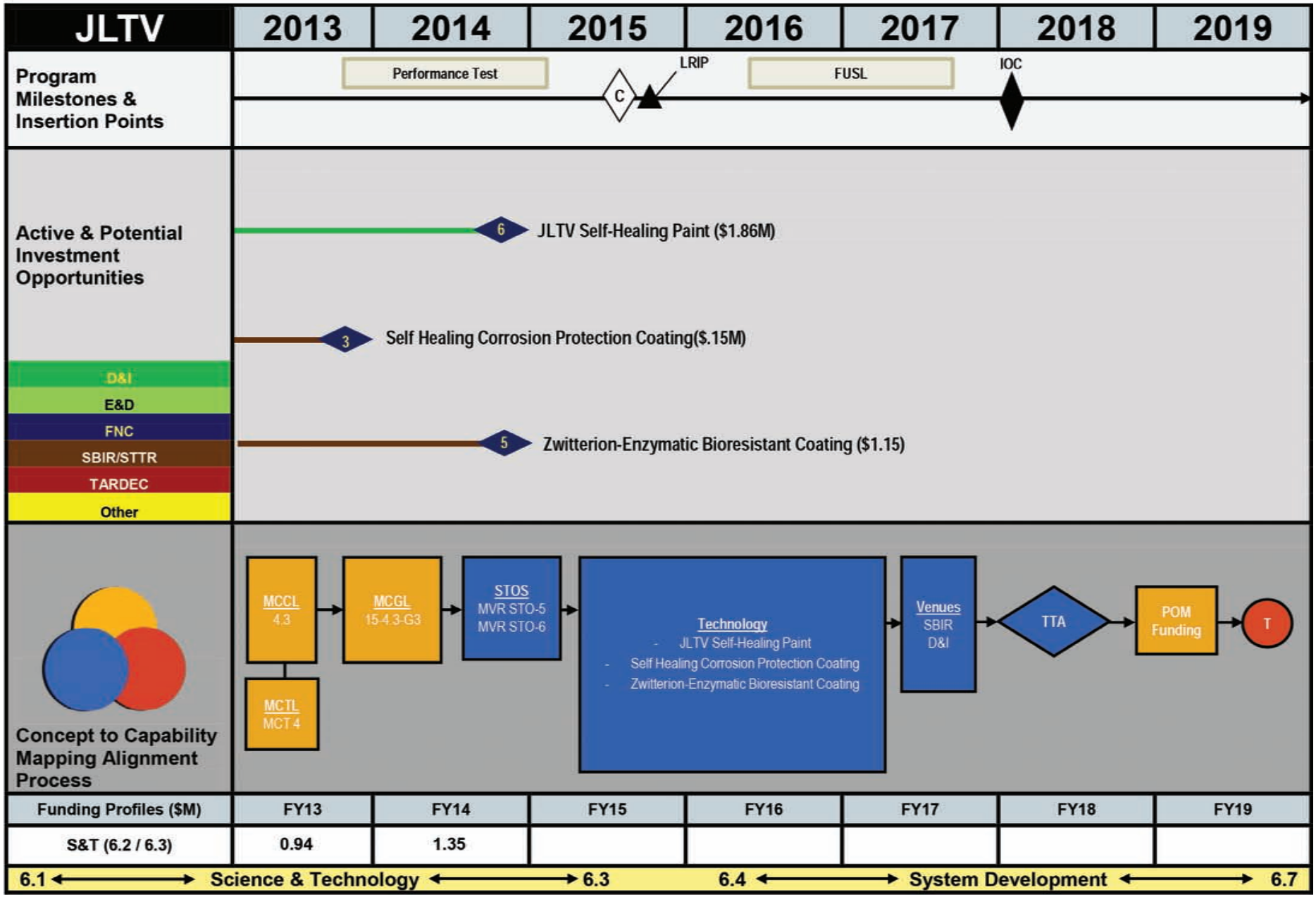
JLTV Technical Issue #1 Weight/Armor



Funding Profiles ($M)	FY13	FY14	FY15	FY16	FY17	FY18	FY19
S&T (6.2 / 6.3)	2.91	2.07	1.00				

6.1 ⟷ Science & Technology ⟷ 6.3 6.4 ⟷ System Development ⟷ 6.7

JLTV Technical Issue #2 Corrosion Resistance



Funding Profiles ($M)	FY13	FY14	FY15	FY16	FY17	FY18	FY19
S&T (6.2 / 6.3)	0.94	1.35					

JLTV Technical Issue #3 JLTV-CCWC Missile Reloading Design

JLTV	2013	2014	2015	2016	2017	2018	2019
Program Milestones & Insertion Points	Performance Test		C, LRIP	FUSL		IOC	
Active & Potential Investment Opportunities	No Current Investments						
Concept to Capability Mapping Alignment Process	MCCL 3.2 → MCGL M.02-05-G6 → STOS MVR STO-5 → Technology → Venues → TTA → POM Funding → T; MCTL MCT 3						
Funding Profiles ($M)	FY13	FY14	FY15	FY16	FY17	FY18	FY19
S&T (6.2 / 6.3)							

6.1 ⟷ Science & Technology ⟷ 6.3 6.4 ⟷ System Development ⟷ 6.7

D&I
E&D
FNC
SBIR/STTR
TARDEC
Other