

Report Documentation Page

Form Approved
OMB No. 0704-0188

Public reporting burden for the collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington VA 22202-4302. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to a penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number.

1. REPORT DATE 21 JUN 2012		2. REPORT TYPE Briefing Charts		3. DATES COVERED 01-06-2012 to 20-06-2012	
4. TITLE AND SUBTITLE MEC-V Survivability Demonstration				5a. CONTRACT NUMBER	
				5b. GRANT NUMBER	
				5c. PROGRAM ELEMENT NUMBER	
6. AUTHOR(S) Anthony Dolan				5d. PROJECT NUMBER	
				5e. TASK NUMBER	
				5f. WORK UNIT NUMBER	
7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) U.S. Army TARDEC ,6501 E.11 Mile Rd,Warren,MI,48397-5000				8. PERFORMING ORGANIZATION REPORT NUMBER #23032	
9. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES) U.S. Army TARDEC, 6501 E.11 Mile Rd, Warren, MI, 48397-5000				10. SPONSOR/MONITOR'S ACRONYM(S) TARDEC	
				11. SPONSOR/MONITOR'S REPORT NUMBER(S) #23032	
12. DISTRIBUTION/AVAILABILITY STATEMENT Approved for public release; distribution unlimited					
13. SUPPLEMENTARY NOTES For TARDEC Ground System Survivability Advanced Planning Briefing to Industry					
14. ABSTRACT Explore the capabilities to protect the M1151 HMMWV platform against emerging Threshold and Objective underbody threats					
15. SUBJECT TERMS					
16. SECURITY CLASSIFICATION OF:			17. LIMITATION OF ABSTRACT Public Release	18. NUMBER OF PAGES 2	19a. NAME OF RESPONSIBLE PERSON
a. REPORT unclassified	b. ABSTRACT unclassified	c. THIS PAGE unclassified			



TECHNOLOGY DRIVEN. WARFIGHTER FOCUSED.

MEC-V Survivability Demonstration

**Anthony Dolan
Program Lead
Ground System Survivability
United States Army RDECOM-TARDEC**

Distribution A: Approved for public release;
distribution is unlimited.



Purpose:

- Explore the capabilities to protect the M1151 HMMWV platform against emerging Threshold and Objective underbody threats
- Compare and contrast several Industry vehicle designs to determine design characteristics that contribute to a reduction in occupant injury during underbody events
- Assess various potential blast mitigating technologies for Light Tactical Vehicle (LTV) platforms and their corresponding TRL
- Upgrade RDECOM's underbody event reconstruction and "excursion" M&S capabilities with respect to LTV platforms

Product(s):

- Final report detailing design methodologies that provide increased occupant protection during underbody events
- System level test and evaluation reports for several LTV vehicle systems
- M&S results for reconstruction of actual test events, as well as results for underbody excursions above the objective level

Payoff:

- Demonstrate the "what's possible" with regards to light vehicle platforms (~18,500 lbs) and underbody protection
- Provide US Army data on technologies/techniques critical to the success of a vehicle system against underbody threats
- Further refine and improve the Army's M&S capabilities and aid with future R&D efforts with respect to LTV underbody technologies
- Demonstrate TRLs of advanced underbody individual technologies

Schedule & Cost

Milestones	FY12	FY13	FY14
Acquisition Decision Memorandum	◆		
Release SOW and Evaluate Offers	■		
Award contracts to 6 contractors		◆	
Conduct Start of Work Meetings and Test Readiness Reviews		■	
Assets Arrive at Test Facility		◆	
Conduct Testing		■	
Complete Testing and Write Report			◆
Concurrent M&S Studies	■	■	
TOTAL: \$22M (6.4)		22.0	