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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:  

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18. NUMBER OF PAGES  
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19a. NAME OF RESPONSIBLE PERSON

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Standard Form 298 (Rev. 8-98)  
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**Program Overview**

**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

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**Schedule & Cost**

<table>
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<th>Milestones</th>
<th>FY12</th>
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<tr>
<td>Acquisition Decision Memorandum</td>
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<td>Release SOW and Evaluate Offers</td>
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<td>Award contracts to 6 contractors</td>
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<td>Conduct Start of Work Meetings and Test Readiness Reviews</td>
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<td>Assets Arrive at Test Facility</td>
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<td>Conduct Testing</td>
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<td>Complete Testing and Write Report</td>
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<td>Concurrent M&amp;S Studies</td>
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**TOTAL: $22M (6.4)**

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