**MEC-V Survivability Demonstration**

**Explore the capabilities to protect the M1151 HMMWV platform against emerging Threshold and Objective underbody threats.**

**Security Classification of:**
- **Report:** Unclassified
- **Abstract:** Unclassified
- **This Page:** Unclassified

**Limitation of Abstract:** Public Release

**Number of Pages:** 2
MEC-V Survivability Demonstration

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

Schedule & Cost

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<thead>
<tr>
<th>Milestones</th>
<th>FY12</th>
<th>FY13</th>
<th>FY14</th>
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<tbody>
<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)**

Last update (DD-MMM-YY): 8 - MAY - 12