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1. MDA12-T004: EOIR Debris Management during ascent phase for C2BMC

Release Date: 07-26-2012Open Date: 08-27-2012Due Date: 09-26-2012Close Date: 09-26-2012

OBJECTIVE: To characterize debris fields and derive a technique which enables system understanding of the debris field and any enclosed objects. DESCRIPTION: During observation from space based electro-optic or infra-red, EOIR, sensors, a missile complex may present debris clouds during boost or mid-course phases of flight. These clouds may appear as various geometric configurations from diff ...

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2. MDA12-T005: Post Intercept Debris Predictions for EO/IR Scene Modeling

Release Date: 07-26-2012Open Date: 08-27-2012Due Date: 09-26-2012Close Date: 09-26-2012

OBJECTIVE: Develop an innovative set of physics-based software tools and models to predict both prompt and late time electro-optical/infrared (EO/IR) signatures associated with the debris cloud generated after a missile intercept. The models should be fast-running, should address current and future missile intercept scenarios covering anticipated altitudes and closing velocities, and should be gr ...

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3. MDA12-T006: Human-in-Control (HIC) Modeling

Release Date: 07-26-2012Open Date: 08-27-2012Due Date: 09-26-2012Close Date: 09-26-2012

OBJECTIVE: Develop and demonstrate an effective, repeatable simulation capability of Human-in-Control (HIC) interactions with other simulated capabilities. Provide capability to represent HIC proficiencies, decisions, decision timeliness, variabilities and outcomes at each interactive system within a system of systems, in order to qualify and quantify impacts on overall system behaviors, capabilit ...

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4. MDA12-T007: M & S Uncertainty Quantification

Release Date: 07-26-2012Open Date: 08-27-2012Due Date: 09-26-2012Close Date: 09-26-2012

OBJECTIVE: Develop and demonstrate Uncertainty Quantification (UQ) capabilities for Ballistic Missile Defense System (BMDS) Modeling and Simulation (M & S). Include methods and tools for efficiently, effectively specifying, representing and analyzing both epistemic (known unknown) and aleatoric (unknown unknown) uncertainties affecting BMDS outcomes. Provide UQ capabilities addressing M & S input ...

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5. MDA12-T008: High energy laser analysis tool with experimental verification of DPAL rate constants

Release Date: 07-26-2012Open Date: 08-27-2012Due Date: 09-26-2012Close Date: 09-26-2012

OBJECTIVE: Develop, or build upon existing models, a set of physics-based software tools to perform high fidelity modeling for MDA"s high-energy lasers. This tool should allow MDA researchers to perform laser performance and sensitivity analysis tasks (e.g. power, beam quality, efficiency trades, etc.). Development includes university research to assist with model formulation and experimental ver ...

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6. MDA12-028: Improved Target Discrimination of Multiple Targets Using Bulk Filtering for Debris

Release Date: 07-26-2012Open Date: 08-27-2012Due Date: 09-26-2012Close Date: 09-26-2012

OBJECTIVE: Identify & evaluate data/signal processing techniques and algorithms that will minimize or overcome the system degradation effects caused by dense threat complexes, consisting of large numbers of closely-spaced uninteresting ballistic objects. The intent of this Topic is to develop a Bulk Filtering method where the radar return data for non-threatening objects are de-emphasized, suppr ...

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7. MDA12-029: Anchoring Post-Intercept Debris Prediction Tools

Release Date: 07-26-2012Open Date: 08-27-2012Due Date: 09-26-2012Close Date: 09-26-2012

OBJECTIVE: Develop and test techniques for collecting data from hyper-velocity missile intercepts for the anchoring of post-intercept debris (PID) models. DESCRIPTION: MDA continues to develop models to predict and understand the phenomenology of hyper-velocity missile intercepts. Missile intercept events produce complex debris environments whose morphology and density are a function of sever ...

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8. MDA12-030: Detailed Lethality Assessments for Flight Test Events

Release Date: 07-26-2012Open Date: 08-27-2012Due Date: 09-26-2012Close Date: 09-26-2012

OBJECTIVE: Develop in situ detectors for MDA flight test targets to directly record physical properties in and around the expected warhead location to provide a more definitive measure of interceptor lethality. DESCRIPTION: MDA has the responsibility to test new and improved interceptor missiles against new and evolving threats. To accomplish this, MDA must constantly upgrade the capability o ...

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9. MDA12-031: Innovative designs for reliable Electro-Explosive Ordnance Devices

Release Date: 07-26-2012Open Date: 08-27-2012Due Date: 09-26-2012Close Date: 09-26-2012

OBJECTIVE: This topic seeks to apply innovative concepts from the field of Electro-Explosive Ordnance Devices for use on Interceptors to improve the overall reliability and lower the failure and/or inadvertent initiation risks by simplifying the design, employing contemporary or next generation energetics, or incorporating other robust features to lower risks and enhance reliability. DESCRIPTI ...

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10. MDA12-032: Long-Term Missile Aging Assessment & Reliability Predictions for Polymer Materials and Electronic Parts

Release Date: 07-26-2012Open Date: 08-27-2012Due Date: 09-26-2012Close Date: 09-26-2012

OBJECTIVE: The development of innovative methodologies, components, or subsystems that aide in long term reliability assessment of missile hardware. Methodologies are sought using the latest proven systematic approaches to age acceleration testing of typical missile and payload components that are maintained in inert modes for extended periods of time prior to launch. Further, advanced reliabilit ...

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