

| <b>Abstract ID</b>    | <b>Abstract Title</b>                                                                                                                                                                                   |
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| <a href="#">11450</a> | RUN6DOF                                                                                                                                                                                                 |
| <a href="#">11459</a> | Evolution of the EXCALIBUR guided projectile.                                                                                                                                                           |
| <a href="#">11463</a> | 155mm HE Projectile Qualification Program                                                                                                                                                               |
| <a href="#">11482</a> | Precision Guided Indirect Munitions – Operational Evolution                                                                                                                                             |
| <a href="#">11498</a> | Extreme Environment Measurement Device (E2MD) Instrumenting Projectile Success                                                                                                                          |
| <a href="#">11502</a> | A Virtual Learning Environment for Precision Indirect Fires                                                                                                                                             |
| <a href="#">11503</a> | An Analysis of the Indirect Fires Portfolio of Munitions                                                                                                                                                |
| <a href="#">11507</a> | Advanced Cannon Bore Cleaning System                                                                                                                                                                    |
| <a href="#">11509</a> | Aggressor suppression via the use of non-lethal projectiles and launcher systems                                                                                                                        |
| <a href="#">11511</a> | Reduced Incendiary, Non-Toxic Obscuration Technologies Utilizing the M483 Carrier                                                                                                                       |
| <a href="#">11525</a> | Cannon Cluster Munition Replacement for 155mm Artillery Systems                                                                                                                                         |
| <a href="#">11526</a> | Precision Urban Mortar Attack (PUMA)                                                                                                                                                                    |
| <a href="#">11528</a> | XM1128 155mm Insensitive Munition (IM) High Explosive (HE) Extended Range Artillery Projectile                                                                                                          |
| <a href="#">11536</a> | Tailoring Software Configuration Management Requirements for Differing Software Modalities: The RMS Experience                                                                                          |
| <a href="#">11537</a> | DEVELOPMENT AND MANUFACTURE OF AN INSENSITIVE COMPOSITION B REPLACEMENT EXPLOSIVE IMX-104 FOR MORTAR APPLICATIONS                                                                                       |
| <a href="#">11572</a> | The Development and Testing of the Improved Kinetic Energy Electronic Time (IKE-ET) Round                                                                                                               |
| <a href="#">11581</a> | Precision Air Dropped Guided Munition (PADGM) System                                                                                                                                                    |
| <a href="#">11583</a> | New PVD Processes for Durable Pollution-Free Ordnance                                                                                                                                                   |
| <a href="#">11584</a> | RAPID INTEGRATION OF THE M197 ONTO THE MH-60S                                                                                                                                                           |
| <a href="#">11586</a> | Introduction of wireless and MEMs based devices into Fire Control Systems                                                                                                                               |
| <a href="#">11590</a> | Foamed Celluloid technology                                                                                                                                                                             |
| <a href="#">11609</a> | 30MMX173 MK 310 MOD 0 PABM-T CARTRIDGE QUALIFICATION PROGRAM                                                                                                                                            |
| <a href="#">11611</a> | USMC EFV Program 30mm MK310 MOD 0 PABM-T Cartridge Qualification and Integration Program Status. The EFV will provide the USMC with a Substantial Improvement in Firepower for a rapid and flexible res |
| <a href="#">11615</a> | USMC EFV 30mm MK317 TPDS-T Cartridge Program Qualification status. The MK317 TPDS-T provides the warfighter with a training cartridge that can with minor modifications be used as a reduced range co   |
| <a href="#">11635</a> | SUBJECT: Very Affordable Precision Projectile (VAPP) System and Flight Experiments                                                                                                                      |
| <a href="#">11636</a> | A Framework for Considering Uncertainty within the Context of Complex Interdependent Systems                                                                                                            |
| <a href="#">11641</a> | Extended Area Protection and Survivability Program (EAPS)                                                                                                                                               |
| <a href="#">11644</a> | Determination of the Shelf Life of MEMS Navigation-Grade Sensors through Use of Accelerated Aging Principles                                                                                            |
| <a href="#">11647</a> | Flowform Superalloy Machinegun Barrels                                                                                                                                                                  |
| <a href="#">11648</a> | System Analysis with Integrated Modeling and Optimization                                                                                                                                               |
| <a href="#">11657</a> | MODELING OF THE AUTOFRETTAGE PROCESSES OF A GUN BARREL                                                                                                                                                  |
| <a href="#">11660</a> | Gun Weapon System (GWS) MK 48 for USCG Legends Class Cutters                                                                                                                                            |
| <a href="#">11668</a> | Design and Fabrication of a Novel High-g Soft Recovery System for 155mm Precision Munitions and Components                                                                                              |
| <a href="#">11670</a> | Versatile Electromagnetic Mortar Launcher for the JLTV-B                                                                                                                                                |
| <a href="#">11681</a> | Next-Gen Fire Control: Free Software & Video Game Math                                                                                                                                                  |
| <a href="#">11692</a> | AFRL Munitions Directorate Fuze Experimentation Research Activities                                                                                                                                     |

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| <a href="#">11697</a> | Netted Smart Precision Engagement Autonomous Rounds (NetSpears) for Navy and Army Weapons                                                                                                                |
| <a href="#">11719</a> | Common GPS: Development of the Subsystem Specification and ICD for the Common GPS Subsystem for the family of Precision Guided Projectiles                                                               |
| <a href="#">11720</a> | Development of the Interceptor System for the Extended Area Protection & Survivability (EAPS) Gun System                                                                                                 |
| <a href="#">11725</a> | Medium calibre goes in a new direction                                                                                                                                                                   |
| <a href="#">11747</a> | Direct Fires & Precision Weapons for rapid deployment at the modern battlefield                                                                                                                          |
| <a href="#">11756</a> | Hellfire Integrated Blast Fragmentation Sleeve Multipurpose Warhead                                                                                                                                      |
| <a href="#">11758</a> | 30mm x 173 Ammunition Suite – The Appropriate Response for Any Target                                                                                                                                    |
| <a href="#">11759</a> | Scalable Airburst Fuze Technology – Shaping the Future                                                                                                                                                   |
| <a href="#">11761</a> | High Explosives charges for insensitive artillery and mortar ammunitions: performances, technology, producibility, affordability                                                                         |
| <a href="#">11771</a> | Fragment Shape Factor Analysis Methodology                                                                                                                                                               |
| <a href="#">11772</a> | A Linear Framework for Projectile Guidance and Control Analyses                                                                                                                                          |
| <a href="#">11773</a> | Modeling and Simulation for Increased Efficiency in Projectile Design                                                                                                                                    |
| <a href="#">11774</a> | Gun Launch Dynamics & Aeroballistic Analysis via Onboard Laser Diode                                                                                                                                     |
| <a href="#">11775</a> | Development of a Field Inspection Vehicle Designed to Autonomously Analyze Large-Bore Tubes for Fatigue and Wear                                                                                         |
| <a href="#">11777</a> | Development of a Moveable Weapon Mount System for the CH47 Helicopter                                                                                                                                    |
| <a href="#">11779</a> | Next Generation Manufacturing & Modeling Technology                                                                                                                                                      |
| <a href="#">11781</a> | Gun-Launched Aerial Precision Munition                                                                                                                                                                   |
| <a href="#">11784</a> | Non-Traditional Impact Detection Using Triboluminescence                                                                                                                                                 |
| <a href="#">11786</a> | Naval Forces capabilities gap against swarm attacks.                                                                                                                                                     |
| <a href="#">11787</a> | The Effects of Igniter Design on the Interior Ballistic Performance of Deterrent Coated Propellants                                                                                                      |
| <a href="#">11788</a> | Leveraging Proven Systems to Develop a Guided Mortar for APMI                                                                                                                                            |
| <a href="#">11790</a> | LW25 Programmable Air Burst Munitions                                                                                                                                                                    |
| <a href="#">11791</a> | Title: Gun Launch Dynamics Modeling – Benchmarking the State of the Art                                                                                                                                  |
| <a href="#">11792</a> | Enhancing Convoy Security by means of Rapid Deployable Weapons                                                                                                                                           |
| <a href="#">11793</a> | The Challenge of Environmental Testing of the Expeditionary Fighting Vehicle Ammunition Feed System Separate from the Expeditionary Fighting Vehicle.                                                    |
| <a href="#">11799</a> | Developing reliable software in a rapid deployment product                                                                                                                                               |
| <a href="#">11800</a> | LW30 Target Practice-Traced (TP-T) Ammunition                                                                                                                                                            |
| <a href="#">11802</a> | Use of COTS O-rings as a Pyrotechnic Safety Barrier in a Rocket motor Ignition Safety Device                                                                                                             |
| <a href="#">11804</a> | Pivoting Coupling- Army's Greatest Invention                                                                                                                                                             |
| <a href="#">11805</a> | Electronic Ballistics Systems: A Scalable Integrated Weapons Systems with Applications Footprint for Fixed and Mobile Platforms and Delivery of Same Caliber Lethal and Non-Lethal Munitions or Payloads |
| <a href="#">11807</a> | Using JLOC (GPS Jammer Detection and Location System) to Improve the Effectiveness of Mission Planning for GPS Guided Weapons and to Support Flexible Response                                           |
| <a href="#">11808</a> | Design Synthesis For Large Shaped Charges: From Requirements To Qualification                                                                                                                            |
| <a href="#">11809</a> | Composite Sabot Technology for the 105MM Rifled Tank Gun System                                                                                                                                          |
| <a href="#">11810</a> | .Inherent Reliability and affordability of ballistic solutions and their operational benefits.                                                                                                           |
| <a href="#">11811</a> | Cartridge Case Venting Technologies, 25mm M910 Ctg Test Vehicle                                                                                                                                          |
| <a href="#">11813</a> | Potting of Electronic Components for High-G Gun Environments                                                                                                                                             |
| <a href="#">11814</a> | Structural Integrity Evaluation of Composite Cylinders                                                                                                                                                   |
| <a href="#">11818</a> | Multipoint Fuzing Techniques for Scalable Effects Warheads                                                                                                                                               |

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| <a href="#">11822</a> | Novel ARDEC Igniters for Gun Systems                                                                               |
| <a href="#">11823</a> | M197 WEAPON COMMAND AND CONTROL SYSTEM FOR THE MH-60S                                                              |
| <a href="#">11824</a> | Design, Analysis and Weight Optimization Techniques for Joint Strike Fighter Missionized Gun Pod Support Equipment |
| <a href="#">11825</a> | Experimental Verification of a Model Pressurized Thick-Walled Cylinder with Numerical and Theoretical methods      |
| <a href="#">11828</a> | Scalable Gen-Set for Directed Energy Weapons: Resolving the Power Problem                                          |
| <a href="#">11829</a> | Investment Cast Titanium in Gun and Missile Systems                                                                |
| <a href="#">11830</a> | Development of an extended range, large caliber, modular payload projectile                                        |
| <a href="#">11831</a> | Use of Optical Augmentation in Target Detection and Identification                                                 |
| <a href="#">11832</a> | Development and Characterization of IM Gun Propellant for the 120mm Tank System                                    |
| <a href="#">11837</a> | The Rheinmetall 30mm x 173 Ammunition Family: Lethality and Urban Effectiveness                                    |
| <a href="#">11838</a> | A Method for Assessing the Effects of Overpressure from Small/Medium Caliber Weapons Fire                          |
| <a href="#">11839</a> | Rheinmetall 30mm x 173 Weapon Systems: Two Guns, Two Solutions                                                     |
| <a href="#">11840</a> | Development of a Large Caliber Naval EM Railgun                                                                    |
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