

FY10 Wicker Appropriations Requests

Item Name: 45' Technology Demonstrator
Request: \$2,600,000
Suggested Recipient: Seeman Composites, Inc
Suggested Location of Performance: Gulfport, MS
Purpose/Project Description: To continue the development of an advanced composite 45' combatant craft specifically designed to close identified capability gaps in Naval Special Warfare missions.

Item Name: ACES 5 Ejection Seat
Request: \$7,000,000
Suggested Recipient: Goodrich Corporation with Pioneer Aerospace
Suggested Location of Performance: Columbia, MS
Purpose/Project Description: These funds will complete testing necessary to provide the USAF the ACES 5 ejection seat - modular and improved version of ACES ejection seat - common seat found on almost every USAF combat aircraft. ACES 5 includes improved parachute to keep pilots safer

Item Name: Advanced Integrated Microsystems for Enabling Revolutionary Military Electronic Systems
Request: \$5,000,000
Suggested Recipient: Camgian Microsystems Corporation
Suggested Location of Performance: Starkville, MS
Purpose/Project Description: The program will support the development of new, microelectronics technologies that will enable significant improvements in the size, weight and power consumption of existing military electronic sensing and communications systems.

Item Name: Advanced Materials Design for Nano Devices
Request: \$2,230,000
Suggested Recipient: Mississippi State University
Suggested Location of Performance: Starkville, MS
Purpose/Project Description: MSU proposes to develop unique/innovative materials, magnetic memory elements for high-density nanoscale memory devices, nanosensors for chemical warfare agents in support of ARL Nano Electronics Team Sensor/Electron Devices Directorate.

Item Name: Advanced Portable Power Systems Technologies
Request: \$4,800,000
Suggested Recipient: Ultralife
Suggested Location of Performance: West Point, MS
Purpose/Project Description: Developing a hybrid battery fuel cell power source reduces a soldier's battery burden. As the incremental weight of batteries continues to grow, mission effectiveness decreases. These systems will enable lighter power supplies and longer mission times.

Item Name: Advanced, Long Endurance Unattended Ground Sensor Technologies
Request: \$8,000,000
Suggested Recipient: Mississippi State University
Suggested Location of Performance: Starkville, MS
Purpose/Project Description: MSU proposes to conduct R&D of advanced, low power unattended ground sensor technologies that will provide the special operations warfighter with total, reliable and up-to-the minute situational awareness.

Item Name: Aircraft Active Corrosion Protection Compounds
Request: \$2,000,000
Suggested Recipient: Rite-Kem Incorporated
Suggested Location of Performance: Tupelo, MS
Purpose/Project Description: Rite-Kem and MSU are commercializing novel compounds into a product which will provide for the first time active corrosion protection and help address the upwards of \$20B corrosion cost to the DoD.

Item Name: Aircraft Carrier Composite Topside Structure with Integrated Ballistic Protection
Request: \$6,500,000
Suggested Recipient: Alion Science & Technology
Suggested Location of Performance: Pascagoula, MS
Purpose/Project Description: This effort will develop and validate full-scale composite aircraft carrier topside structure, providing a lightweight fragmentation/structural/fire integrated technology solution that can meet/exceed current performance requirements while reducing cost.

Item Name: ANG/USAF F-16 Center Pedestal Color Display/Active Electronically Scanned Array (AESA) Radar (Priority 4 of 6)
Request: \$4,700,000
Suggested Recipient: Raytheon Company
Suggested Location of Performance: Forest, MS
Purpose/Project Description: Integrates Raytheon-developed AESA radar with Center Pedestal Display for F-16

Item Name: Army Center of Excellence in Acoustics
Request: \$4,200,000
Suggested Recipient: University of Mississippi - National Center for Physical Acoustics
Suggested Location of Performance: University, MS
Purpose/Project Description: This research utilizes physics principles to determine not only the direction to a weapon firing but also the distance. This cutting edge technology is being transitioned into combat theatre in cooperation with the Army laboratory at Picatinny Arsenal.

Item Name: Arrow Weapons System
Request: \$46,000,000
Suggested Recipient: ATK
Suggested Location of Performance: Luka, MS
Purpose/Project Description: The Arrow anti-tactical ballistic missile program is the centerpiece of the U.S.-Israel cooperative defense relationship, and provides the U.S. with key research and technology for other theater missile defense programs.

Item Name: Blast and Impact Resistant Composite Structures for Navy Ships
Request: \$3,000,000
Suggested Recipient: University of Mississippi - Departments of Civil and Mechanical Engineering
Suggested Location of Performance: University, MS
Purpose/Project Description: Modeling, analysis, fabrication and testing of blast/shock/impact resistant composite structures for the new generation of navy ships to achieve better mobility, survivability, stealth, safety, and lower cost.

Item Name: CACV Demonstrator
Request: \$10,500,000
Suggested Recipient: Northrop Grumman Shipbuilding
Suggested Location of Performance: Pascagoula, MS
Purpose/Project Description: To meet increased carrying requirements, the SSC (LCAC replacement) must be lighter. Current designs assume heavier materials. This project will prove the technology readiness level of composites, thus allowing use of this lighter material.

Item Name: Center for Intelligence and Security Studies
Request: \$2,447,729
Suggested Recipient: University of Mississippi - Center for Intelligence and Security Studies
Suggested Location of Performance: University, MS
Purpose/Project Description: This program will improve the capability and quality of future intelligence analysts. In addition to providing instruction in analysis and reporting, it will arrange internships in the Intelligence Community and facilitate security clearances.

Item Name: Chemical Materials and Environmental Modeling Project
Request: \$3,500,000
Suggested Recipient: Jackson State University
Suggested Location of Performance: Jackson, MS
Purpose/Project Description: This effort addresses biodegradation of structurally varying nerve agents and related compounds and provides guidance for general rules governing these processes to better understand the mechanism of action for certain enzymes involved.

Item Name: Composite Mast for CVNs
Request: \$3,400,000
Suggested Recipient: Northrop Grumman Shipbuilding
Suggested Location of Performance: Pascagoula, MS
Purpose/Project Description: CVNs have a service life requirement of 50+ years. To achieve this requirement, weight savings, especially high on the ship, is critical. A 10 ton composite mast can save up to 56 tons in the bowels of a ship.

Item Name: Composite Materials Enhancements through Polymer Science Research and Development
Request: \$8,000,000
Suggested Recipient: The University of Southern Mississippi
Suggested Location of Performance: Hattiesburg, MS
Purpose/Project Description: Provide critical research for composite matrix materials specific to the Navy's needs. Advance the utility of polymeric materials for U.S. Navy composites.

Item Name: Conducting Polymer Stress and Polymer Damage Sensors for Composites
Request: \$7,000,000
Suggested Recipient: Crosslink
Suggested Location of Performance: Hattiesburg, MS
Purpose/Project Description: Crosslink and the University of Southern Mississippi have developed the technology for realtime structural health monitoring systems to prevent catastrophic failure in composites that are increasingly being used in military aircraft.

Item Name: Cooperative International Neuromuscular Research Group (CINRG)
Request: \$5,000,000
Suggested Recipient: Children's National Medical Center
Suggested Location of Performance: Washington, DC
Purpose/Project Description: CINRG is the largest clinical trials network in the world for pediatric neuromuscular disease. Its primary goal is to provide a continuum of well-designed clinical trials for the study of muscle function research.

Item Name: Corrosion Control, Prevention and Prediction through Polymer R&D
Request: \$14,000,000
Suggested Recipient: The University of Southern Mississippi
Suggested Location of Performance: Hattiesburg, MS
Purpose/Project Description: DoD initiated a pilot program between 4 universities focused on understanding and reducing the premature failure of military assets via corrosion. Critical are understanding and mitigation of corrosion in combination with predictive models and testing.

Item Name: DDG-51 Hybrid Drive System
Request: \$9,000,000
Suggested Recipient: General Atomics EMS Tupelo Facility
Suggested Location of Performance: Shannon, MS
Purpose/Project Description: Develop a low speed hybrid drive propulsion alternative system for DDG-51 class of ships using advanced motor technologies and power electronics. Will save thousands of gallons of fuel per ship per year.

Item Name: Duchenne Muscular Dystrophy National Program
Request: \$8,000,000
Suggested Recipient: Children's National Medical Center
Suggested Location of Performance: Washington, DC
Purpose/Project Description: Duchenne National Program is focused on testing of molecular patches; highly synthetic DNA-like drugs that are able to modulate muscle repair systems. The goal is to use this as a means of facilitating muscle rehabilitation after recovery from injury.

Item Name: Extremely Large, Domestic Expendable and Reusable Structures Manufacturing Center
Request: \$12,000,000
Suggested Recipient: ATK Mission Systems - Aerospace Structures Division
Suggested Location of Performance: Iuka, MS
Purpose/Project Description: To scale-up domestic composites manufacturing/processing capacity, including evaluation, modification, qualification & acquisition of automated production equipment & facilities, all to meet emerging & critical military space access requirements.

Item Name: F-15C AESA for Air National Guard
Request: \$62,400,000
Suggested Recipient: Raytheon Company
Suggested Location of Performance: Forest, MS
Purpose/Project Description: Upgrade radars on Air National Guard F-15Cs from a mechanically scanned array to an Active Electronically Scanned Array (AESA) configuration.

Item Name: F-15C Classified Demo
Request: \$12,000,000
Suggested Recipient: Raytheon Company
Suggested Location of Performance: Forest, MS
Purpose/Project Description: Three-year development effort to demonstrate the APG-63(V)3 Active Electronically Scanned Array (AESA) with a Radar Common Data Link (RCDL).

Item Name: F-18E/F APG-73 Upgrade
Request: \$5,000,000
Suggested Recipient: Raytheon Company
Suggested Location of Performance: Forest, MS
Purpose/Project Description: Upgrade F/A-18E/F Lot 21-25 aircraft with AESA antenna. Lot 21-25 aircraft are not configured with the power and cooling system to allow for AESA retrofitting. Program upgrades to AESA configuration without major modifications to aircraft.

Item Name: Field Portable Analytical Equipment
Request: \$3,000,000
Suggested Recipient: Seacoast Science, Inc.
Suggested Location of Performance: Starkville, MS
Purpose/Project Description: These funds will complete the testing and development necessary to raise the Technical Readiness Level of the field portable environmental testing system.

Item Name: Fuel Storage Bladder - 210K
Request: \$30,000,000
Suggested Recipient: Applied Geo Technologies, Inc.
Suggested Location of Performance: Choctaw, MS
Purpose/Project Description: Manufacturing of 210K fuel storage bladders under production contract from Army Tank Automotive Command. Existing bladders are too small to store the fuel the Army mission requires.

Item Name: Halvorsen 25k Loader
Request: \$12,000,000
Suggested Recipient: John Bean Technologies
Suggested Location of Performance: Tupelo, MS
Purpose/Project Description: A gap in funding exists during FY 10 that will result in a shut-down of the Halvorsen production. \$12 million in bridge funding is needed in FY 10 in order to avoid a potential loss of jobs and higher costs for the Air Force.

Item Name: HBCU Applied Research Incubator
Request: \$9,500,000
Suggested Recipient: Jackson State University
Suggested Location of Performance: Jackson, MS
Purpose/Project Description: This initiative will provide applied research products required by the Department of the Navy and promote the growth and development of HBCUs.

Item Name: HERON Maritime SOUTHCOM (UAS)
Request: \$15,000,000
Suggested Recipient: Stark Aerospace, Inc.
Suggested Location of Performance: Starkville/Columbus, MS
Purpose/Project Description: HERON is a mature, multi-role UAV that provides robust Maritime capabilities to perform missions at high or low altitudes relaying real-time recon and target acquisition, detection and ID information back to ground control and mission monitoring.

Item Name: High Performance Computational Design of Novel Materials
Request: \$4,000,000
Suggested Recipient: Jackson State University
Suggested Location of Performance: Jackson, MS
Purpose/Project Description: This initiative is designed to implement studies of novel materials that represent the potential for applications as sensors, coatings and electronic elements. One focus will be on the design of carbon Nanotube-based chemical sensors.

Item Name: High Power Computing Capability for Traumatic Brain Injury Research

Request: \$6,000,000

Suggested Recipient: Diversified Technology

Suggested Location of Performance: Ridgeland, MS

Purpose/Project Description: The objective of this program will be to meld applied cognitive applications and neuroscience program to form a combination of biological, behavioral, and computational approaches for evaluating traumatic brain injury.

Item Name: High Speed Aerial Target Development

Request: \$2,000,000

Suggested Recipient: Applied Geo Technologies

Suggested Location of Performance: Choctaw, MS

Purpose/Project Description: The project performs R&D to modify the launcher for the Shadow Unmanned Aerial Vehicle to make the launcher common to all subsonic aerial targets. R&D supports current operations, and provides cost avoidance and support for Future Combat Systems.

Item Name: High Temp Polymers for Missile System Applications

Request: \$5,500,000

Suggested Recipient: The University of Southern Mississippi

Suggested Location of Performance: Hattiesburg, MS

Purpose/Project Description: High temperature polymers are required for next generation missile systems applications. Special materials with increased stiffness, decreased weight, and primarily higher thermal loads are needed to replace the high cost of titanium or aluminum products.

Item Name: High-Performance Polymers for Weapons and Munitions Technology

Request: \$4,300,000

Suggested Recipient: The University of Southern Mississippi

Suggested Location of Performance: Hattiesburg, MS

Purpose/Project Description: Develop light-weight composites, very low-friction surfaces, energetic polymers, reduce corrosion and extend the shelf-life of weapons and munitions used to advance soldier and future combat systems critical to improve performance of the warfighter

Item Name: Hunter MQ5-B UAS for Army

Request: \$8,000,000

Suggested Recipient: Stark Aerospace, Inc.

Suggested Location of Performance: Starkville/Columbus, MS

Purpose/Project Description: This additional funding for two attrition air vehicles will be for replacements subsequent to losses in theater. Hunter B has over 46,000 combat hours in support of GWOT giving needed Surveillance & Targeting against IED teams and other enemy assets.

Item Name: Hybrid Plastics and POSS Nanotechnology Engineering Scale-Up Initiative

Request: \$6,000,000

Suggested Recipient: Hybrid Plastics Inc.

Suggested Location of Performance: Hattiesburg, MS

Purpose/Project Description: POSS materials have a broad range of defense and commercial applications. The proposed effort is the final step in an ongoing Title III program aimed at creating an affordable domestic supply of qualified POSS materials for these applications.

Item Name: Infectious and Airborne Pathogen Reduction

Request: \$2,800,000

Suggested Recipient: Luvata Grenda

Suggested Location of Performance: Grenada, MS

Purpose/Project Description: Proactive measure to preserve health of warfighter while receiving routine & emergency care. Copper has an intrinsic capability to kill disease-causing bacteria that thrive in hospital settings on touch surfaces & fungal growth in air-handling systems.

Item Name: Integrated Composite Armor for Riverine Craft

Request: \$2,000,000

Suggested Recipient: Seeman Composites, Inc

Suggested Location of Performance: Gulfport, MS

Purpose/Project Description: The funding of this request will lead to development of lighter weight armor solutions for small high speed craft that will allow increased mission capability and crew protection.

Item Name: Integrated Rugged Checkpoint Container (IRCC)
Request: \$2,500,000
Suggested Recipient: Rapiscan Systems, Inc.
Suggested Location of Performance: Ocean Springs, MS
Purpose/Project Description: The IRCC supplies the war fighter with a ruggedized suite of person, parcel and vehicle borne threat detection systems which fill a capability gap not currently addressed by providing our forces an integrated mobile checkpoint for unimproved terrain.

Item Name: Jet Blast-Resistant Composite Radomes
Request: \$5,100,000
Suggested Recipient: Northrop Grumman Shipbuilding
Suggested Location of Performance: Pascagoula, MS
Purpose/Project Description: The JSF VTOL configuration will operate from LHA 6. Its exhaust temperatures will reach 1800F. This project will mitigate operational risks associated with JSF exhaust temperatures, ensuring topside shipboard elements, including antennas, are protected.

Item Name: Land Based Test Capability
Request: \$20,000,000
Suggested Recipient: Northrop Grumman Shipbuilding
Suggested Location of Performance: Pascagoula, MS
Purpose/Project Description: Today's ship are increasingly complex, and feature integrated networks that carry data from a wide range of shipboard systems. Land Based Testing would provide a pre-installation capability to simulate and test these systems, reducing major program risks.

Item Name: LHA Advance Procurement
Request: \$222,000,000
Suggested Recipient: Northrop Grumman Shipbuilding
Suggested Location of Performance: Pascagoula, MS
Purpose/Project Description: LHA class requires \$400M of AP funding for long lead material. \$178M was authorized and appropriated in FY09 for LHA 7 AP. LHA 7 requires \$222M of FY10 AP funding to preserve the current schedule.

Item Name: Lightweight Small Caliber Ammunition Production Initiative
Request: \$4,500,000
Suggested Recipient: MAC LLC
Suggested Location of Performance: Bay St Louis, MS
Purpose/Project Description: Lightweight polymer-case ammunition produced by MAC has been demonstrated to reduce the overall weight of the cartridge by over 25%. This project will establish a domestic production capacity needed to meet the .50 caliber needs of the Marine Corps.

Item Name: Long Term Pain and Infection Management for Combat Casualty Care
Request: \$3,000,000
Suggested Recipient: Ablitech Inc.
Suggested Location of Performance: Hattiesburg, MS
Purpose/Project Description: This project will provide advanced treatment and Long Term Pain and Infection Management of Combat Casualty Care for the warfighter. Funding will build upon current research and development in conjunction with the The University of Southern Mississippi.

Item Name: MARS (Modeling and Analysis of the Response of Structures)
Request: \$2,000,000
Suggested Recipient: ES3, Inc. (headquarters)
Suggested Location of Performance: Vicksburg, MS
Purpose/Project Description: MARS is providing ERDC with advanced computational methods specifically designed to support DoD's requirements in assessing vulnerabilities of critical US assets (buildings and vehicles) to enemy threats (IED's, mines, and bombs).

Item Name: Mobile Acoustic Ranging and Tracking (MACRAT)
Request: \$4,100,000
Suggested Recipient: Radiance Technologies, Inc.
Suggested Location of Performance: Oxford, MS
Purpose/Project Description: This program will develop an on-the-move sniper detection system to protect the in-theater warfighter and critical domestic assets.

Item Name: Mold in Place (MIP) Coating Development for the US Submarine Fleet
Request: \$2,000,000
Suggested Recipient: Seeman Composites, Inc
Suggested Location of Performance: Gulfport, MS
Purpose/Project Description: To provide additional funding to complete the development of MIP coatings for low cost submarine components built by Seemann Composites for the VA Class and other US Navy

Item Name: MQ-8B Fire Scout Army
Request: \$14,900,000
Suggested Recipient: Northrop Grumman Corporation
Suggested Location of Performance: Moss Point, MS
Purpose/Project Description: Fire Scout Army provides persistent over the horizon, tactical reconnaissance, surveillance and target acquisition (RSTA), communications relay, emitter tracking, and logistical support to warfighters.

Item Name: National Shipbuilding Research Program Advanced Shipbuilding Enterprise / (MARITECH budget
Request: \$15,000,000
Suggested Recipient: VT Halter Marine
Suggested Location of Performance: Pascagoula, MS
Purpose/Project Description: Manage and focus national shipbuilding and repair research and development funding on technologies that will reduce the cost of ships to the U.S. Navy by leveraging best commercial practices and improving the efficiency of the industry.

Item Name: Navy Special Warfare Performance and Injury Prevention Program for SBT 22 at Stennis Space Center, MS
Request: \$2,850,000
Suggested Recipient: University of Pittsburgh School of Health and Rehabilitation Sciences
Suggested Location of Performance: Pittsburgh, PA
Purpose/Project Description: Growing from an existing project with SEAL Team 2, this would establish the Special Boat Team Human Performance and Injury Prevention Laboratory. The first phase will develop physiologic & musculoskeletal profiles of operators assigned to SBT 22 in MS.

Item Name: Next Generation Passive Sensor (NGPS)
Request: \$4,000,000
Suggested Recipient: Miltec Research & Technology Corporation
Suggested Location of Performance: Oxford, MS
Purpose/Project Description: This work develops/enhances acoustic sensor systems and capabilities for use in providing increased amounts of strategic information to the warfighter in the battlefield allowing detection, classification and tracking of objects of interest or threats.

Item Name: On-Board Hybrid Power Unit (OBHPU)
Request: \$1,500,000
Suggested Recipient: Diversified Technology
Suggested Location of Performance: Ridgeland, MS
Purpose/Project Description: Provide a light weight, safe, robust, cost effective fuel cell power sources, the On-Board Hybrid Power Unit (OBHPU) associated technology of the Onboard Vehicle Power system (OBVP) concentrated on the conduction cooled 10 kW AC power unit.

Item Name: Orion High Altitude Long Endurance (HALE) UAV (Risk Reduction Effort)
Request: \$9,720,000
Suggested Recipient: Aurora Flight Sciences
Suggested Location of Performance: Columbus, MS
Purpose/Project Description: Orion HALE UAV will meet urgent national requirements for persistent intelligence, surveillance and reconnaissance, beyond line of sight communications, and assist in further development of key technologies needed for long-term operations in near space.

Item Name: Procurement of Virtual Interactive Combat Environment training systems for the MS National Guard
Request: \$4,920,000
Suggested Recipient: Dynamic Animation Systems, Inc
Suggested Location of Performance: Hattiesburg, MS
Purpose/Project Description: Procurement of Virtual Interactive Combat Environment training systems for the Mississippi National Guard, including all hardware, software, and media of VICE, installation and support. This will fulfill the initial installation of VICE at Camp Shelby.

Item Name: Production of High Energy Density, "Green" Fuel for Fuel Cells
Request: \$3,500,000
Suggested Recipient: Ardica Technologies
Suggested Location of Performance: Starkville, MS
Purpose/Project Description: There is a need for high energy density, environmentally friendly fuel for soldier power systems. Higher energy density provides electric power for a given mission time while carrying less weight.

Item Name: Production of MARCbots
Request: \$8,000,000
Suggested Recipient: Applied Geo Technologies, Inc.
Suggested Location of Performance: Choctaw, MS
Purpose/Project Description: The MARCbot is a field system currently operating in high-threat IED aread in which US military personnel are operating.

Item Name: Propulsion Manufacturing Technology Development (PMTD, NiB Coatings)
Request: \$6,880,000
Suggested Recipient: Rolls-Royce Naval Marine Inc.
Suggested Location of Performance: Pascagoula, MS
Purpose/Project Description: Proving the benefits of NiB coatings in large scale naval propulsion equipment applications provides significant opportunities for improved operations and fuel efficiency and reduce life

Item Name: RC-26B Modernization
Request: \$9,130,000
Suggested Recipient: ATK Mission Systems - Integrated Systems Division
Suggested Location of Performance: Fort Worth, TX
Purpose/Project Description: ANG UFR cites avionics modernization & Night Vision Imaging System as high priorities for RC-26Bs. FY2009 appropriated funds combined with requested FY2010 funds would equip 5 stateside aircraft – including 1 in MS – with these modernization upgrades.

Item Name: SAVIOR (Surveillance Augmentation Vehicle - Insertable on Request)
Request: \$2,800,000
Suggested Recipient: General Atomics
Suggested Location of Performance: Starkville, MS
Purpose/Project Description: This project completes a rapidly deployable ultra-high-resolution sensor/analysis and command & control vehicle yielding human target detection, recognition, and location in a 4 km diameter circle giving unprecedented levels of situational awareness.

Item Name: Sewage-Derived Biofuels Project
Request: \$5,000,000
Suggested Recipient: General Atomics
Suggested Location of Performance: Starkville, MS
Purpose/Project Description: As a follow-on to Phase I, Phase II will demonstrate the viability of large-scale production of sewage-derived distillate fuels from military and municipal wastewater treatment facilities.

Item Name: Short Range Ballistic Missile Defense (SRBMD)
Request: \$45,000,000
Suggested Recipient: ATK
Suggested Location of Performance: Luka, MS
Purpose/Project Description: The David's Sling System, jointly developed by the US and Israel, is planned to provide both the Israel and the US with an effective and affordable protection against the proven threat of Long Range Artillery Rockets & Short Range Ballistic Missiles.

Item Name: Silicon Carbide Electronics Material Producibility Initiative
Request: \$9,000,000
Suggested Recipient: II-VI Wide Band Gap Materials Group
Suggested Location of Performance: Starkville, MS
Purpose/Project Description: Develop domestic 2nd source of SiC materials and devices, required for highly energy efficient, high-frequency and -power systems for critical military platforms and commercial applications. Stimulate private sector employment and manufacturing capacity.

Item Name: Silicon carbide power electronics for More Electric Aircraft
Request: \$10,000,000
Suggested Recipient: SemiSouth Laboratories, Inc
Suggested Location of Performance: Starkville, MS
Purpose/Project Description: SiC power electronics technology will reduce weight & cost in critical More-Electric-Aircraft systems. Project will ensure early maturation of SiC technology for timely integration and readiness level demonstrations of critical MEA systems in JSF/F35.

Item Name: Simulation Based Reliability and Safety (SimBRS) Program
Request: \$10,000,000
Suggested Recipient: Mississippi State University
Suggested Location of Performance: Starkville, MS
Purpose/Project Description: SimBRS Program provides a formal relationship with other universities/corporate entities to engage in synergized research to develop cradle-to-grave modeling & simulation capabilities to optimize reliability in vehicular components/systems

Item Name: Smart Bomb Targeting System
Request: \$3,900,000
Suggested Recipient: Global Technical Systems (GTS)
Suggested Location of Performance: Oxford, MS
Purpose/Project Description: The development of a Multi-Mode Targeting Radar will provide an enhanced, low-cost, highly reliable, day/night and adverse weather targeting capability, greatly reducing collateral damage and ensuring that critical targets are neutralized.

Item Name: SOC-R Armor RDT&E for Small Arms Armor Piercing ammo
Request: \$6,000,000
Suggested Recipient: United States Marine, Inc.
Suggested Location of Performance: Gulfport, MS
Purpose/Project Description: The project would involve the design, development, testing and evaluation of an armor solution for the SOC-R to protect against the threat of small arms armor piercing ammunition.

Item Name: Software Network Application Performance Enhancements
Request: \$5,000,000
Suggested Recipient: Circadence Corporation
Suggested Location of Performance: Tupelo, MS
Purpose/Project Description: WARP WAN optimization and Virtualization Management software will provide the Business Transformation Agency Business Enterprise Information Services (BEIS) an integrated capability to enhance performance and assurance of critical data and applications.

Item Name: Special Operations Craft--Riverine (SOC-R)
Request: \$10,800,000
Suggested Recipient: United States Marine, Inc.
Suggested Location of Performance: Gulfport, MS
Purpose/Project Description: The project would involve the procurement of six additional SOC-R for the Special Operations Forces.

Item Name: Unique Identification of Tangible Items
Request: \$8,000,000
Suggested Recipient: Applied Enterprise Solutions, LLC
Suggested Location of Performance: Oxford, MS
Purpose/Project Description: DoD directed that all services uniquely identify tangible items. Compliance is far behind. COMFISCS has been very successful at incorporating IUID into Navy business processes and has raised compliance to DASN (A&LM) level. However, much work remains.

Item Name: Unmanned Special Operations Craft--Riverine (USOC-R)
Request: \$6,000,000
Suggested Recipient: United States Marine, Inc.
Suggested Location of Performance: Gulfport, MS
Purpose/Project Description: USOC-R will provide SOCOM and Navy Special Warfare Command personnel the ability to remotely assess dangerous coastal and riverine environments, keeping personnel out of harm's way until the mission demands it. Current methods require manned surveillance.

Item Name: Unmanned Tactical Data Collection Platform - Mobile
Request: \$2,000,000
Suggested Recipient: QinetiQ North America Technology Solutions Group | Planning Systems, Inc.
Suggested Location of Performance: Long Beach, MS
Purpose/Project Description: This project will provide an accelerated capability for Expeditionary Naval Forces to collect relevant environmental and intelligence, surveillance, and reconnaissance data and allow them to effectively exploit the battlespace for tactical advantage.

Item Name: VA Class Propulsor Fleet Spare Rotor
Request: \$7,500,000
Suggested Recipient: Rolls-Royce Naval Marine Inc.

Suggested Location of Performance: Pascagoula, MS
Purpose/Project Description: Manufacture and deliver a ready-for-issue rotor to the fleet inventory, replacing a casting currently in production which, due to quality issues, has and will in the future require substantial

Item Name: VePro - Health Usage Monitoring and Vehicle Prognostics
Request: \$4,400,000
Suggested Recipient: HBM-nCode Products
Suggested Location of Performance: Starkville, MS
Purpose/Project Description: Reduce operational failures, costs & fuel consumption, save lives, improve vehicle designs & accelerate evaluation plus identify hybrid power opportunities by understanding usage severity & durability using robust, scalable & cost effective VePro systems