

Anticipated Sources of Funding during Project Duration: DoD (Navy), FAA, Aviation Industry. Percent and Sources of Matching Funds: 25 percent—FAA; 10 percent—Aviation Industry. No matching funds are required for the Department of Defense program.

NANOCOMPOSITES FOR LIGHTNING PROTECTION OF COMPOSITE AIRCRAFT STRUCTURES

The Department of Defense Appropriations Act, 2009, H.R. 2638, contains \$1,200,000 for Nanocomposites for Lightning Protection of Composite Aircraft Structures in the Department of the Air Force, RDT&E Account. The entity to receive funding for this project is Wichita State University at 1845 Fairmount St, Wichita, 67260.

Nonmetallic military (manned and unmanned) aircraft are vulnerable to lightning strike and airworthiness assurance is threatened. For example, FAA certified aircraft are typically struck by lightning once or twice a year. Unlike their metal counterparts, composite structures do not readily conduct away the extreme electrical currents and electromagnetic forces generated by lightning strikes. Composite materials are either not conductive at all (e.g. fiberglass) or are significantly less conductive than metals (e.g. carbon fiber). For this reason, lightning strike protection has been a significant concern since the first composites were used on aircraft more than 30 years ago. This program will seek to advance the development and operation of a nanocomposite based methodology addressing lightning strike protection on composite airframe structures in Department of Defense aircraft applications. Recent advances in the addition of nanocomponents to advanced composite materials have shown the potential for reducing lightning strike damage to composite airframe structures. A variety of nanoconstituents known for their conductivity and high aspect ratio have been recently analyzed under an exploratory Air Force study and have shown great promise for the incorporation of this technology into a manufacturing environment. This research focus and funding will work in coordination with the Air Force Research Laboratory (AFRL) at Wright Patterson AFB to advance research into possible commercial applications that may be used in production. This will enable aircraft operation (manned and unmanned) in all environments without restrictions.

Anticipated Sources of Funding during Project Duration: DoD (Air Force), State of Kansas, Aviation Industry. Percent and Sources of Matching Funds: 20 percent match—State of Kansas; 20 percent match—Aviation Industry. No matching funds are required for the Department of Defense program.

COMPOSITE SMALL MAIN ROTOR BLADE

The Department of Defense Appropriations Act, 2009, H.R. 2638, contains \$1,600,000 for development of a Composite Small Main Rotor Blade in the Department of the Army, RDT&E Account. The entity to receive funding for this project is Plastic Fabricating division of Kaman Aerospace Corporation at 1650 South McComas Street, Wichita, KS 67213.

It is my understanding that the funding would be used to continue development on the Composite Small Main Rotor Blade which would replace the legacy main rotor blade on the U.S. Army's A/MH-6 Little Bird helicopter. The Little Bird, flown by the U.S. Army's 160th Special Operations Aviation Regiment, has

been heavily modified to better meet operational needs; however, the main rotor blade, a critical dynamic component, has not been upgraded to modern standards. Constructed of metal, this blade is highly susceptible to damage and fatigue, and since metal lacks ballistic tolerance, the blades leave the aircraft especially vulnerable to enemy weapons in hostile action. Moreover, when gunners fire their weapons from the aircraft, expended shell casings can cause minor skin dents, and even these small dents require that the blades be replaced. The Composite Small Main Rotor Blade takes advantage of the inherent ballistic tolerance of composite construction, advanced aerodynamic design, and state-of-the-art erosion-resistant materials and will significantly improve the safety, reliability, performance—and survivability—of the aircraft. Specifically, the blades will increase damage tolerance, enhancing survivability in hostile environments, and improve hover performance, increase operating ceiling, increase maximum forward speed, all adding to the aircraft's maneuverability and performance envelope. The composite blades will also improve erosion resistance, experience better field reparability, and reduce the cost and logistics burden related to premature metal blade replacement due to damage. Funds are requested to fabricate production tooling, fabricate FAA certification blades, and conduct FAA certification ground testing. Composite Small Main Rotor Blades will (1) make the A/MH-6 Little Bird helicopter more survivable in hostile environments; (2) expand the flight envelope of the aircraft; and (3) reduce logistics burden and cost associated with supporting the legacy blade.

No matching funds are required for the Department of Defense program.

VIGILANT, AN AUTO-ID AND ACCESS CONTROL FACILITY

The Department of Defense Appropriations Act, 2009, H.R. 2638, contains \$1,600,000 for development of Vigilant an auto-ID and access control facility at the McConnell ANG facility in the Department of the Army, RDT&E Account. The entity to receive funding for this project is the 184th Air National Guard at McConnell Air Force Base, located at 2801 N Rock Rd, Wichita, Kansas 67226.

Anticipated sources of funding for the duration of the project: It is anticipated that the funding for the Vigilant Sentinel multi-year effort will be provided by Federal Government support. Vigilant Sentinel will enable the National Guard to continue to be a quality first responder in the field by providing a quality, cost-effective security system in a fixed location or mobilized via UAVs that can be customized to each user's security requirements without being intrusive. The proposed FY09 funding of \$2.0M will be utilized for Phase 4 in developing the system to start the transition into a mobile sensor network. FY09 funding will be executed on a 50 percent Camber Corporation and 50 percent 184th Kansas Air National Guard McConnell AFB, Wichita, KS. Camber Corporation: (50 percent/\$1,300,000) 1st phase; prototype a mobile unmanned perimeter sensor network that will enable the National Guard to secure an area with a minimum of manpower. The second phase is to integrate handheld devices to read valid Government IDs and validate them through available communication networks (satellite uplink, cell, wireless) thereby enabling the National Guard to quickly and accurately ID people during a first response to a disaster or National

emergency. 184th Kansas Air National Guard, McConnell AFB, Wichita, KS: (50 percent / \$1,300,000) Finalize Phase 3, a working prototype to provide secured coverage over multiple locations for fixed site security currently being installed and tested at McConnell Air Force Base.

No matching funds are required for this Department of Defense project.

EARMARK DECLARATION

HON. JON C. PORTER

OF NEVADA

IN THE HOUSE OF REPRESENTATIVES

Wednesday, September 24, 2008

Mr. PORTER. Madam Speaker, pursuant to the Republican Leadership standards on earmarks, I am submitting the following information for publication in the CONGRESSIONAL RECORD regarding earmarks I received as part of H.R. 2638—The Consolidated Security, Disaster Assistance, and Continuing Appropriations Act, 2009.

Requesting Member: Congressman JON C. PORTER.

Bill Number: H.R. 2638—The Consolidated Security, Disaster Assistance, and Continuing Appropriations Act, 2009.

Account: Air Force, OM account.

Legal Name of Requesting Entity: Giant Campus.

Address of Requesting Entity: 3101 Western Avenue, Suite 100, Seattle, WA, USA.

Description of Request: Provide an earmark of \$2,000,000 to complete funding to allow for the continuation of an on-base program, offering technology curriculum through in-class study, additional after-school and evening community programs, and a more concentrated series during vacations or school breaks. This request is consistent with the intended and authorized purpose of the Air Force, OM account.

Requesting Member: Congressman JON C. PORTER.

Bill Number: H.R. 2638—The Consolidated Security, Disaster Assistance, and Continuing Appropriations Act, 2009.

Account: Navy, Force Protection Advanced Technology account.

Legal Name of Requesting Entity: Pierce Targets.

Address of Requesting Entity: 215 Grand Mediterra Henderson, NV 89011.

Description of Request: Provide an earmark of \$1,600,000 for the demonstration and evaluation of the self healing target system at Guam and research, development, and testing of next generation large scale self healing targets for bombing ranges. This request is consistent with the intended and authorized purpose of the Navy, Force Protection Advanced Technology account.

Requesting Member: Congressman JON C. PORTER.

Bill Number: H.R. 2638—The Consolidated Security, Disaster Assistance, and Continuing Appropriations Act, 2009.

Account: Army, RDTE account.

Legal Name of Requesting Entity: Opticomp. Address of Requesting Entity: 215 Elks Point Road, P.O. Box 10779 Zephyr Cove, Nevada 89448-2779.

Description of Request: Provide an earmark of \$2,200,000 to build a WMD-capable optical amplifier system that may be integrated with wave guide-based massively parallel optical

interconnect, MPOI, technology. This request is consistent with the intended and authorized purpose of the Army, RDTE account.

Requesting Member: Congressman JON PORTER.

Bill Number: H.R. 2638—The Consolidated Security, Disaster Assistance, and Continuing Appropriations Act, 2009.

Account: Navy, RDTE account.

Legal Name of Requesting Entity: Progeny Systems Corporation.

Address of Requesting Entity: 2501 N. Green Valley Parkway, Suite 130—D, Henderson, Nevada 89014.

Description of Request: Provide an earmark of \$2,500,000 for Tactical Unmanned Aerial Vehicles PE 0305204N, Project 2478, only to continue Phase III SBIR N04-011 Unmanned Air Systems Tactical Control System "Open Architecture" Migration Program in FY09. This request is consistent with the intended and authorized purpose of the Navy, RDTE account.

Requesting Member: Congressman JON C. PORTER.

Bill Number: H.R. 2638—The Consolidated Security, Disaster Assistance, and Continuing Appropriations Act, 2009.

Account: Air Force, AP account.

Legal Name of Requesting Entity: ATK.

Address of Requesting Entity: 5050 Lincoln Drive, Edina, MN, USA.

Description of Request: Provide an earmark of \$400,000 to complete funding for upgrades to the Podded Reconnaissance System, also known as SCATHE VIEW, to provide ground and air forces critical real-time intelligence for domestic disaster relief operations and war fighter requirements. This request is consistent with the intended and authorized purpose of the Air Force, AP account.

Requesting Member: Congressman JON C. PORTER.

Bill Number: H.R. 2638—The Consolidated Security, Disaster Assistance, and Continuing Appropriations Act, 2009.

Account: Army, RDTE account.

Legal Name of Requesting Entity: Nevada Cancer Institute.

Address of Requesting Entity: 10000 W. Charleston Blvd, Las Vegas, NV, USA.

Description of Request: Provide an earmark of \$1,600,000 to complete funding to test whether the combined injury of trauma, hypoxia, sepsis and/or radiation exposure can be reduced by interruption of the complement cascade. This request is consistent with the intended and authorized purpose of the Army, RDTE account.

EARMARK DECLARATION

HON. C.W. BILL YOUNG

OF FLORIDA

IN THE HOUSE OF REPRESENTATIVES

Wednesday, September 24, 2008

Mr. YOUNG of Florida. Madam Speaker, I submit the following:

Requesting Member: Congressman C.W. BILL YOUNG.

Bill Number: H.R. 2638—Consolidated Security, Disaster Assistance, and Continuing Appropriations Act, 2009

Account: Military Construction, Army National Guard.

Legal Name of Requesting Entity: Florida Army National Guard.

Address of Requesting Entity: 400 S. Monroe Street, Tallahassee, Florida 32399.

Description of Request: Provides \$20,907,000 for construction of Phase IV of the Regional Training Institute (RTI), Project Number 120191, located at Camp Blanding, Starke, Florida 32091. It is my understanding that the Florida Army National Guard (FLARNG) and Army National Guard readiness will be affected if the school cannot educate and train soldiers. This final phase will finish construction of the remaining 65,000 square feet of billeting, all remaining infrastructure, supporting facilities, and all necessary work not completed in the prior phases to support and house students attending the courses at the training institute.

Requesting Member: Congressman C.W. BILL YOUNG.

Bill Number: H.R. 2638—Consolidated Security, Disaster Assistance, and Continuing Appropriations Act, 2009.

Account: Navy Aircraft Procurement.

Legal Name of Requesting Entity: Alliant Techsystems (ATK), Inc.

Address of Requesting Entity: 13133 34th Street North, Clearwater FL 33762.

Description of Request: Provides \$3,200,000 for an AAR-47 Missile Advance Warning System. The AAR-47 is an extremely effective, low cost, missile warning system that provides significant timely warning of missile and laser threats to U.S. aircraft. This program will provide upgrades for new requirements based on emerging threats in the Global War on Terrorism, and it will address long-term performance improvements for emerging threats. This system is currently fielded in a wide variety of fixed wing and rotary wing aircraft currently being used in Iraq and Afghanistan. The lessons learned from years of combat operations and subsequent upgrades to this system will enhance the ability of aircraft to avoid being shot down.

Account: Army RDT&E.

Legal Name of Requesting Entity: Enser Corporation.

Address of Requesting Entity: 5430 70th Avenue North, Pinellas Park FL 33781.

Description of Request: Provides \$2,300,000 for Advanced Battery Technology (ABT). This program is intended to establish a U.S. owned thermal battery capability to support advanced weapons systems to meet production requirements of next generation weapon systems for strategic defense and advanced guided munitions, smart bombs and missiles.

Account: Army RDT&E.

Legal Name of Requesting Entity: Eclipse Energy Systems Inc.

Address of Requesting Entity: 2345 Anvil St. North, St. Petersburg FL 33710.

Description of Request: Provides \$3,500,000 for the Advanced Conductivity Program (ACP). This program is designed to meet an urgent need for manufacture of patented advanced nanotechnology films that offer enhancements over current film systems in order to reduce solar loading of vehicles, and provide greater multi-functionality in transparent armor.

Account: Air Force RDT&E.

Legal Name of Requesting Entity: Alaka'i Consulting & Engineering, Inc.

Address of Requesting Entity: 7887 Bryan Dairy Rd, Suite 220, Largo FL 33777.

Description of Request: Provides \$2,400,000 for Advanced Detection of Explo-

sives (ADE). ADE will improve current counter-IED technology and detect improvised explosives devices (IEDs) at safe standoff distance.

Account: Army Aircraft Procurement.

Legal Name of Requesting Entity: Conax Florida Corporation.

Address of Requesting Entity: 2801 75th Street North, St. Petersburg FL 33710.

Description of Request: Provides \$2,400,000 for the Air Warrior—Joint Service Vacuum Packed Life Raft (AW-JSVPLR) which will provide the Army with a small, compact, maintenance free raft for helicopter crews in the event of an emergency egress. The Air Warrior Block I ensemble specification includes a requirement for an Over-Water-Gear Container (OWGC) and vacuum packed, low profile life raft for over-water missions and for personnel safety/survival in the event of a water landing or eject.

Account: Navy ONR RDT&E.

Legal Name of Requesting Entity: University of South Florida.

Address of Requesting Entity: 4202 East Fowler Avenue, Tampa FL 33620.

Description of Request: Provides \$1,600,000 for Autonomous Marine Sensors and Networks for Rapid Littoral Assessment. This program continues development of advanced underwater sensing systems and associated networks that provide rapid assessment of near shore ocean environments.

Account: Army Reserve Operation & Maintenance.

Legal Name of Requesting Entity: U.S. Army Reserve.

Address of Requesting Entity: St. Petersburg-Clearwater International Airport, Clearwater FL 33762.

Description of Request: Provides \$1,600,000 to address the immediate military need for aviation facilities supporting the United States Army Transformation and rapid fielding of the new USAR Air Ambulance Company in Clearwater, FL. The USAR Air Ambulance Company is the first in a series of unit activations required to implement the Army's directive to increase the air ambulance structure in the modular force and mitigate the critical medical evacuation shortfall with the OIF/OEF rotational requirements.

Account: Air Force RDT&E.

Legal Name of Requesting Entity: Honeywell.

Address of Requesting Entity: 13350 U.S. Highway 19 North, Clearwater FL 33764-7290.

Description of Request: Provides \$2,400,000 for Ballistic Missile Technology. This project will help develop and mature the current Minuteman III program, the Navy's Trident D-5 Life Extension and Prompt Global Strike mission.

Account: Navy/Marine Corps RDT&E.

Legal Name of Requesting Entity: SAIC.

Address of Requesting Entity: Central Avenue, Suite 1370, St. Petersburg FL 33701.

Description of Request: Provides \$2,400,000 for Battlefield Sensor Netting (BSN). BSN will provide the warfighter with unparalleled access to mission critical, real-time sensor data. Although tremendous progress has been made in the advancement of sensors, there has not been a corresponding advancement in data link network technologies that can effectively disseminate, display and exploit the tremendous amounts of