

Senator Roland W. Burris *FY 2011 Armed Services Authorization Requests*

(Note: Projects are listed in alphabetical order by genre, then project title. Projects will be posted as they are submitted to the subcommittees, as is required by new ethics laws.)

Military Construction and Veterans Affairs Authorization Project Requests

\$9,500,000 for Expansion of Squadron Operations Facility, Building 5008 – Scott Air Force Base

Illinois Air National Guard

Scott Air Force Base, IL 62225

Why this is a good use of taxpayer funds:

The 126th Air Refueling Wing requires an adequately sized and appropriately configured space for the Active/Guard KC-135R flying squadron association. The facility will include common/shared space as well as separate active and guard unique areas. This project will consolidate the flying mission from multiple facilities into a single consolidated facility.

\$4,362,000 for Illinois National Guard – Sparta Training Site Infrastructure

Illinois National Guard

1301 North MacArthur Blvd.

Springfield, IL 62702-2317

Why this is a good use of taxpayer funds:

The Illinois National Guard requests federal funding to support the construction of a new training facility in Sparta, Illinois. This project would extend site-required utilities (water, sewer, gas and electric services) to facilitate expansion and creation of the site infrastructure that will support the training requirements of the ILARNG and other military services within the Sparta Training Site region. Once the site is completed, it will reduce travel costs and other related expenses of guardsmen in central and southern Illinois, including the St. Louis metropolitan area, that are currently underserved by - and contributing to the congestion of - the Marseilles Training Center in northern Illinois.

\$3,270,000 for Modified Record Fire Range Expansion – Marseilles Training Area

Illinois Army National Guard

Marseilles Training Center Headquarters

1450 Army Road

Marseilles, IL 61341-9536

Why this is a good use of taxpayer funds:

The Illinois National Guard requests federal funding for a range expansion of Modified Record Fire (MRF) range and move of the 25m zero range. The proposal would move the 25m zero range east, expand the current seven-lane MRF eastward to fourteen lanes. This funding includes: design costs for ranges, lead clean-up, dirt movement, wiring for electric and data transmission from the tower to each target location, target emplacements, and construction of the new range target. Completion of this project will allow the Illinois Army National Guard to meet Department of the Army training requirements for individual weapons.

\$2,297,400 for Readiness Center Decatur – 766th Engineer Battalion

Illinois Army National Guard

766 Engineer Battalion, Field Service Company

5550 Ocean Trail Road

Decatur, IL 62521-8778

Why this is a good use of taxpayer funds:

The Illinois National Guard is requesting federal funding to support the design and construction of an addition for administrative supply (heated and unheated), classroom, and locker room space in Decatur, IL that transformed into the 766th Engineer Battalion Headquarters under the Army Modularity Force. The Illinois National Guard plans to build an addition to current infrastructure in order to reduce overall project costs.

\$2,735,000 for Simulation Center – Marseilles, IL

*Illinois Army National Guard
Marseilles Training Center Headquarters
1450 Army Road
Marseilles, IL 61341-9536*

Why this is a good use of taxpayer funds:

The Illinois National Guard requests federal funding for the construction of a facility capable of supporting virtual and constructive simulated training (JANUS, etc.), as well as command post exercises in order to train command and control elements and staff in a simulated tactical environment. Completion of this project will allow the ILARNG to meet multiple Department of the Army and Department of Homeland Security training requirements.

<i>Defense Authorization Project and Report Language Requests</i>

\$5,000,000 for Renewable Aromatic Jet Fuel Components – Honeywell Special Materials UOP

*Honeywell Special Materials UOP
50 East Algonquin Road
Des Plaines, IL 60017*

Why this is a good use of taxpayer funds:

Department of Defense demand for biofuels, combined with cross-governmental agency mandates regulating the amount of green house gas emissions, require a great industry initiative to produce greater qualities of reliable carbon-reduced fuels. Honeywell has developed a process called to make carbon-reduced jet fuels, called Bio-Synthetic Paraffinic Kerosene (BPSK), from sustainable bio-feedstocks. This technology will be used as a direct drop-in replacement to ordinary petroleum fuel and is fully compatible with existing aircraft engines and infrastructure (pipelines, storage facilities, etc.)

\$60,000,000 for Impact Aid – Department of Defense Education Agency

*Department of Defense Education Agency
4040 North Fairfax Drive, Webb Building
Arlington, VA 22203*

Why this is a good use of taxpayer funds:

Department of Defense Impact Aid provides supplemental assistance to public school districts that educate the largest numbers of children of military personnel to address the children’s unique needs, especially at this time of increased and longer deployments. Education is an important quality of life issue and is directly related to military readiness. District needs include counseling of children and families of deployed members, force protection requirements of schools on military installations, high special education costs, technology upgrades, and repair and renovation of facilities to address health, safety, ADA, and classroom size concerns.

\$250,000 for Illinois Troops to Teachers Program

*Illinois Troops to Teachers
100 West Randolph, Suite 5-570
Chicago, IL 60601*

Why this is a good use of taxpayer funds:

The Illinois Troops to Teachers program recruits eligible members of the armed forces, be they active duty personnel or current members of the Reserve or National Guard, for participation in a certification program to become teachers in Illinois. The Troops to Teachers program facilitates the certification and the employment of such participants as teachers in public schools throughout Illinois – often serving underserved or underprivileged communities throughout our state.

\$4,000,000 for End Item Industrial Preparedness Activities – American Foundry Society

*American Foundry Society
1695 North Penny Lane
Schaumburg, IL 60173*

Why this is a good use of taxpayer funds:

This program is entering its second year and will focus on lightweight metal approaches and casting methods to produce various vital defense and commercial components in the shortest possible time. It will improve manufacturing readiness through a variety of production technologies, advancements in metal alloys to enhance properties and performance, and extending the state of the science in net shape manufacturing, and rapid prototyping and production technology. This will be done in partnership with the U.S. Army and will be an applied research and development program focused on improving the capabilities of U.S. foundries.

\$10,000,000 for the Applied Research Institute at the University of Illinois at Urbana-Champaign

*University of Illinois
306 Engineering Hall
1308 West Green Street, MC-266
Urbana, IL 61801*

Why this is a good use of taxpayer funds:

It is the mission of the Applied Research Institute (ARI) at the University of Illinois at Urbana-Champaign to develop, test, validate, and deploy plans, strategies and tools for next-generation cyber-enabled resilient infrastructure systems that will deter, prevent, detect, defend, respond, and recover from accidental or malicious disruptive events. Additionally, the ARI will develop and deploy the necessary content, curriculum, training materials and programs to prepare a new “Resilient Infrastructure Workforce,” improving the knowledge and skill base necessary to foster the next generation of students and veterans that will work in DoD-critical sectors, such as science, engineering, and mathematics.

\$2,000,000 for Electrolyte Additives for Improved Lithium Ion Battery Performance – 3M

*3M Company
22614 Route 84 North
Cordova, IL 61242-9799*

Why this is a good use of taxpayer funds:

To research and develop radically improved lithium salts as additives for fundamental improvements in lithium ion batteries that will expand the electric and hybrid vehicle industry, improving fuel energy, reducing greenhouse gases, improving safety of batteries, supporting military needs, and differentiating the U.S. battery and vehicle industries. As a three phase project, the goals of each phase are as follows: (1) synthesis and initial screening of additives; (2) targeted evaluation of additives; (3) down-selection of the best additive(s), process scale-up, optimization of electrolyte formation, and cell construction.

\$2,750,000 for Corrosion Resistant, High Performance Alloys for Navy Aircraft – QuesTek Innovations

*QuesTek Innovations
1820 Ridge Avenue
Evanston, IL 60201*

Why this is a good use of taxpayer funds:

With Navy funding, QuesTek has designed and developed two new ultra-high performance alloys, M54 for airframe applications (primarily landing gear) and C64 for gears. The performance of these alloys far exceeds currently used materials. They will provide substantial cost and weight savings in development while being virtually maintenance free in service and safer for the environment than using current materials. This stems from the fact that current alloys used in landing gear steels are coated in environmentally devastating cadmium and have not been researched in recent years to find lighter-weight, cost-efficient, replacements.

\$5,000,000 for Rescue Eagle Program – University of Illinois at Chicago

*University of Illinois at Chicago
1253 South Halsted Street, Suite 204
Chicago, IL 60607*

Why this is a good use of taxpayer funds:

A full-spectrum, multi-spectral sensor suite, currently under development at the University of Illinois at Chicago (UIC) will be configured to mount an unmanned aerial vehicle and provide the MASINT community, flight surgeons, and other trauma care providers with clinically relevant data as well as environmental analysis. Flight surgeons and public health personnel would receive environmental, occupational, and toxicological threat information throughout the recovery process and flight. Together, the monitoring of EM/DE emissions and environmental health threats will provide a completely new data stream to the operator and medical community that will influence commander decisions during both acute and long term care.

Report Language on Exploration of Future Technology Requirements for U.S. Space Command

*USSPACECOM
Offutt Air Force Base, NE*

Why this report is requested:

This study is intended to look at the cost-effectiveness, feasibility, and service need for aerospace technology that could conform to a uniform standard of size, inter-operability, stackability, functionality, and protocol available with off-the-shelf hardware systems. Specifically, this study is requested to assess the possible cost-savings of non-proprietary (non-“black box”) off-the-shelf computer hardware and software systems that would provide the U.S. Space Command with the flexibility to repair, replace, and acquire aerial vehicle components critical to mission objectives.

Bill Language to Make Permanent the Arsenal Support Program Initiative (ASPI) in the FY 2011 National Defense Authorization Act

*Quad City Development Group
1830 2nd Avenue, Suite 200
Rock Island, Ill., 61201*

Why this language is requested:

The goals of ASPI are to encourage commercial firms to utilize and invest in Rock Island Arsenal (RIA) facilities to reduce product and ownership costs (overhead). Additionally, ASPI contributes to the increased use of the military industrial base’s critical skill sets, thereby enhancing overall readiness levels.