

ADDENDUM

Senator Robert F. Bennett Appropriation Disclosure Requirements Fiscal Year 2010

Under the new disclosure requirements announced at the beginning of the 111th Congress by the Senate and House Appropriations Committees, all Members of Congress are required to post on their websites each appropriations request they submit to the respective subcommittees. The information must include an explanation of the project, a justification for the request, and the requesting entity.

Senator Bennett is requiring any entity seeking federal funding to sign, date, and return this form to his office by April 6, 2009. By signing below, the requesting entity acknowledges that each Fiscal Year 2010 Appropriations Request form submitted to Senator Bennett's office, along with this addendum, will be posted on the senator's website in compliance with the new practice of the committee, and will therefore be available to the public. By signing this addendum, the requesting entity also acknowledges that the corresponding appropriations request is a priority for the city, county, council, or other organization that it represents. Each request will continue to be thoroughly reviewed by Senator Bennett's office and by the staff of the Appropriations Committee.

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Project Name: Distributed, networked Unmanned Ground Systems (DUGS) for enhanced Reconnaissance, Surveillance, and Target Acquisition / Intelligence, Surveillance, and Reconnaissance (RSTA/ISR)

Head of the organization making request: Name: Morgan Taylor

Title: President

Signature: 

Date: April 2nd, 2009

Senator Robert Bennett FY2010 Defense Authorization and Appropriation Request Form

If submitting multiple requests:	Priority #	1	of	2
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Date:	January 30 th , 2009
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Company/organization:		VPI Engineering			
Address where majority of the work is to be performed:		11814 S. Election Rd., Suite 200			
City:	Draper	State:	UT	Zip:	84020
Corporate point of contact:		Morgan Taylor			
Phone:					
Lobbyist point of contact:					
Phone:		Email:			

Project name:		Distributed, networked Unmanned Ground Systems (DUGS) for enhanced Reconnaissance, Surveillance, and Target Acquisition / Intelligence, Surveillance, and Reconnaissance (RSTA/ISR)			
Is this a request for an appropriation, authorization, or both?		Appropriation			
Proposed funding agency:		Army Research Laboratory			
Account:	Army RDT&E, R-1 Line 5	Budget line number [from DoD exhibit O-1, P-1, or R-1]:			
Line title:	Basic Research	Program Element number:		0602105A	
Is this project funded in the President's budget request? (Yes or No):		No	If yes, amount:	\$	
Funding request:		\$4,750,000			
Is the project in a Service Chief's Unfunded Priority or Unfunded Requirements List? (Yes or No):		No			
If yes, ranking:		Amount:	\$		

DoD or service program manager:		Victor K. Champagne		Phone:	
Office name:	Advanced Materials & Processing Team US Army Research Laboratory	Email:			
Other DoD point of contact/advocate:		Major Dave Borgeson		Phone:	
Office name:	Concept Systems Engineering Branch (SMC/XRAE)	Email:			

Purpose of project (limit to 250 words and be as accurate and concise as possible— this language will be shared with the Senate Appropriations Committee. You may also submit a separate white paper with more detail on the project):

The 2008 Army Modernization Strategy outlines vital improvements in the Army's capabilities for utilizing space based assets including modernization of Battle Command Systems, improved Battlespace Awareness (BA), and achieving the DoD vision for net-centricity that the proposed DUGS program will achieve.

The DUGS program is a natural extension of an Air Force program working to dramatically improve satellite Command and Control (C2). DUGS will expand this existing program to meet the unique needs of the Army including improvements in BA and critical support for Future Force Battle Command through the utilization of a low-cost, distributed network of unmanned ground satellite communication systems that can be rapidly deployed in-theater by combat forces or by accessing previous installations at fixed sites.

The fully operable DUGS network would provide near instantaneous C2 of military space assets worldwide, enabling new capabilities for Army forces in information-driven warfare.

DUGS would enable increased capability for Intelligence, Surveillance, and Reconnaissance (ISR) as well as tightening the decision chains between Battle Command and war fighters. Furthermore, the DUGS system provides a low-cost pathway achieving seamless integration between the Army's forces and the AFSCN and greatly expanding the capabilities of the Army's vision for LandWarNet.

The US Army is interested in developing DUGS through the research and development of technology related to this low-cost, distributed network of unmanned ground satellite communication systems. The DOD FY2010 budget request will provide RDT&E funding for research, prototyping, testing, and evaluation for technology transition.

Does the request meet an official DoD or service requirement? If so, cite official requirement documents and attach copies if available.

No

Proposed bill and/or report language requested:

Distributed, networked Unmanned Ground Systems (DUGS) for enhanced Reconnaissance, Surveillance, and Target Acquisition / Intelligence, Surveillance, and Reconnaissance (RSTA/ISR)

Please list industry, academic, and government partners:

SPARTA, Inc
2401 E. El Segundo Blvd.
Suite 100
El Segundo, CA 90245

Will this request be submitted to other Senate or House offices? If so, please list:

Senator Orrin Hatch

Congressman Jim Matheson

Have, or will, committee staff be approached regarding this project? If so, please list staff member AND committee.

Has funding previously been requested for this project?	No
If yes, please fill out the following table as far as applicable	
Year and amount requested	Was funding provided? If so, amount:

Please provide a budget breakdown for the amount requested, including locations where funding will be spent:

Budget: \$4,000,000 VPI Engineering, Draper, UT 84020 Budget: \$750,000 SPARTA, Inc, El Segundo, CA, 90245

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Fiscal Year 2010

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Project Name: DUGWAY FIELD TEST IMPROVEMENTS

Head of the organization making request: Name: MICHAEL R. WILSON

Title: PRESIDENT, ITT ADV. ENG. & SCIENCES

Signature: Michael R. Wilson

Date: March 25, 2009

Senator Robert Bennett FY2010 Defense Authorization and Appropriation Request Form

If submitting multiple requests:	Priority #	2	of	2		Date:	3/2/09	
Company/organization:		ITT Advanced Engineering and Sciences						
Address where majority of the work is to be performed:		Test Technology Division, West desert Test Center, Dugway Proving Ground,						
City:	Dugway			State:	UT		Zip:	84022
Corporate point of contact:		Dee Williamson, Director Utah Operations						
Phone:								
Lobbyist point of contact:		Doc Syers, VP Congressional Relations						
Phone:								

Project name:		Dugway Field Test Improvements					
Is this a request for an appropriation, authorization, or both?		Both					
Proposed funding agency:		Army					
Account:	RDTE, A			Budget line number [from DoD exhibit O-1, P-1, or R-1]:	135		
Line title:	Army Technical Test Instrumentation & Targets			Program Element number:	0605602A		
Is this project funded in the President's budget request? (Yes or No): No				If yes, amount:	\$		
Funding request:				\$ 5.0M			
Is the project in a Service Chief's Unfunded Priority or Unfunded Requirements List? (Yes or No):				No			
If yes, ranking:		Amount:		\$			

DoD or service program manager:		Dr. Bob Radel			Phone:		
Office name:	Tech Director—Strategic programs			Email:			
Other DoD point of contact/advocate:		Dr. Marty Marshall			Phone:		
Office name:	Test technology Division Chief			Email:			

DPG is seeking to significantly upgrade its field testing capabilities for monitoring and analyzing chemical aerosol simulant releases in the air and their deposition on surfaces. Additional work needs to be performed on the aerosol referee systems to determine the full capabilities required for accurate aerosol characterization both in the air and on surfaces. ITT will lead the overall chemical aerosol instrumentation R&D efforts and Space Dynamics Laboratory personnel will work closely with Dugway and ITT to help ensure that the systems are optimally deployed, calibrated and cross correlated.

Does the request meet an official DoD or service requirement? If so, cite official requirement documents and attach copies if available.

The program element descriptive summary for this Army R&D PE as presented by DOD (<http://www.asafm.army.mil/budget/fybm/fy08-09/rforms/vol3.pdf>) describes the purpose of as "providing critical front-end investments for development of ...future test capabilities.. at the seven Army Developmental Testing Centers" as recommended by the Defense Science Board. This is just such a "critical front-end" investment.

Proposed bill and/or report language requested:

Authorize and appropriate an additional \$5.0M in FY 10 into Defensewide R,D,T&E, Line 135, PE# 605602A—Army Technical Test Instrumentation and Targets--ONLY for Dugway Field Test Improvements.

Please list industry, academic, and government partners:

Space Dynamics Laboratory, Utah State—Dr. Gail Biningham, Chief Scientist, 435-797-4320

Will this request be submitted to other Senate or House offices? If so, please list:

Senator Hatch and Congressman Bishop

Have, or will, committee staff be approached regarding this project? If so, please list staff member AND committee.

Doug Bush & Doug Roach, HASC 225-4440, Paul Terry, HAC-D 225-2847, and Kate Kaufer, SAC-D 224-6688

Has funding previously been requested for this project?	
If yes, please fill out the following table as far as applicable	
Year and amount requested	Was funding provided? If so, amount:
FY05 -	
FY06 -	
FY07 -	
FY08 -	
FY09 - 2.4	

Please provide a budget breakdown for the amount requested, including locations where funding will be spent:

R&D: 1.30 , Planning: 1.25 , Production: 2.45

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Fiscal Year 2010**

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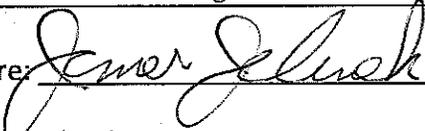
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Project Name: Electronic Motion Actuation Systems

Head of the organization making request: Name: James I. Jelinek

Title: General Manager

Signature: 

Date: 03/26/09

**Senator Robert Bennett FY2010
Defense Authorization and Appropriation Request Form**

If submitting multiple requests:	Priority #1	1	of	1	Date:	3/5/09
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Company/organization:		Moog Inc.-FloTork					
Address where majority of the work is to be performed:		1701 North Main Street P.O. Box 68					
City:	Orrville	State:	OH	Zip:	44667-0068		
Corporate point of contact:	Jerry Irving						
Phone:							
Lobbyist point of contact	Mark Benedict (on Behalf of Pat Curley, Moog Director of Government Affairs)						
Phone:							

Project name:		Electronic Motion Actuation Systems (EMAS)					
Is this a request for an appropriation, authorization, or both?		Both					
Proposed funding agency:		Defense, Navy					
Account:	RDT&E	Budget line number [from DoD exhibit O-1, P-1, or R-1]:					
Line title:	Line #4. Power Projection Applied Research	Program Element number:		0602114N			
Is this project funded in the President's budget request? (Yes or No):		NO	If yes, amount:	\$ n/a			
Funding request:		\$ 4,000,000.00					
Is the project in a Service Chief's Unfunded Priority or Unfunded Requirements List? (Yes or No):		NO					
If yes, ranking:		Amount:	\$				

DoD or service program manager:		Lynn Petersen			Phone:	
Office name:	Office of Naval Research			Email:		
Other DoD point of contact/advocate:		n/a			Phone:	
Office name:				Email:		

Purpose of project (limit to 250 words and be as accurate and concise as possible— this language will be shared with the Senate Appropriations Committee. You may also submit a separate white paper with more detail on the project):

The purpose of the project is to develop shipboard-qualified prototype electric actuators and demonstrate their satisfactory performance in shipboard applications. Actuators

convert energy from hydraulic, air, or electric power to achieve mechanical movement and control of heavy or remote devices. Current Navy ships have between 100 to 3,000 actuators each. At present, these actuators typically use old style hydraulic technology. In 1957, FLO-TORK was founded to provide actuators to the Polaris submarine program. The company has maintained that relationship with the Navy and is the sole source provider of hydraulic actuators for numerous submarine classes and aircraft carriers. Over the past three years, by internal investment, the company has made significant advances in the area of electric actuators. These developments have been put into a working model that the Navy has witnessed in laboratory demonstrations. From that model a working prototype has been developed which addresses task objectives of power factor correction, user interface, system diagnostics, and integrated packaging approaches. The prototype is being broadened to address additional service requirements raised by the agency from completed field tests.

Successful completion of the technology will reduce shipboard personnel and reduce repair and maintenance costs. The Department of the Navy has repeatedly stated its desire for an all-electric ship using this technology. The target ship for this concept is the DDG-1000 Zumwalt class destroyer (formerly DD(X)) which is a multi-mission destroyer and the centerpiece of a family of all-electric ships (destroyers, cruisers, and littoral combat ships) that will operate within the construct of the Surface Combatant Navy.

Environmental hazards associated with traditional hydraulic systems will also be eliminated by moving to a electric actuators. The objective is to begin placement of working units into submarine applications by calendar 2011 and then broaden to the next generation surface ships as typified by the DDG-1000 Zumwalt class in the next two years.

Does the request meet an official DoD or service requirement? If so, cite official requirement documents and attach copies if available.

n/a

Proposed bill and/or report language requested:

Requesting \$4.0 million:

“RESEARCH, DEVELOPMENT, TEST AND EVALUATION.

Research development, test, and evaluation, Navy.

Electric Motion Actuation Systems Technology Development.—The Committee directs the department to fund in the amount of \$4 million the development of shipboard-qualified prototype electric actuators and demonstrate their satisfactory performance in shipboard applications.”

Please list industry, academic, and government partners:

The Office of Naval Research, as well as the Naval Sea Systems Command, strongly supports the development of the electric actuator technology. Specific contacts can be provided upon request.

Will this request be submitted to other Senate or House offices? If so, please list:

Sen. Hatch(UT), Rep. Chaffetz (UT-3), Rep. Matheson (UT-2), Rep. Bishop (UT-1), Sen. G. Voinovich (OH), Sen. S. Brown (OH), Rep. Latta (OH-5), Rep. Austria (OH-7), Rep. La Tourette (OH-14), Rep. Jordan (OH-4), Rep. Sutton (OH-13), Rep. Driehaus (OH-1), Rep. Turner (OH-3), Rep. Z. Space (OH-18), Rep. J. Bocchieri(OH-16), Rep. Tim Ryan (OH-16), Rep. Higgins (NY-27), Sen. Hagan(NC), Sen. Burr (NC), Rep. H. Shuler (NC-11), Rep. S. Myrick (NC-9), Sen. Casey (PA), Sen. Bennett (UT),

Have, or will, committee staff be approached regarding this project? If so, please list staff member AND committee.

Sen. Bennett (UT);:Clint Satterthwaite; Sen. Hatch(UT): Bill Castle; Rep. Chaffetz (UT-3): EreK Loosli; Rep. Bishop (UT-1): Steve Petersen, Sen. G. Voinovich (OH): Joseph Lai; Sen. S. Brown (OH): Diane Wilkenson; Rep. Latta (OH-5): Allison Witt, Rep. Austria (OH-7): Beth Debrosse;

Rep. La Tourette (OH-14): Christine Kontra; Rep. Sutton (OH-13): Alyssa Plakas; Rep. Z. Space (OH-18): Dan Farmer; Rep. J. Bocchieri(OH-16): Chad Tanner; Rep. Tim Ryan (OH-16): Robert Bacon; Rep. Higgins (NY-27): Andy Tantillo; Rep. H. Shuler (NC-11): Sean O'Brien; Rep. S. Myrick (NC-9): Andy Polk; Sen. Casey (PA): Alex Davis;

Has funding previously been requested for this project?	Yes
If yes, please fill out the following table as far as applicable	
Year and amount requested	Was funding provided? If so, amount:
FY09	None
FY08	\$1,200,000.00
FY07	\$2,200,000.00
FY06	\$1,800,000.00

Please provide a budget breakdown for the amount requested, including locations where funding will be spent:

MOOG Inc. with facilities affected by this project are located in (Salt Lake City) Utah, (Orrville) Ohio, (Torrance, Chatsworth, Huntington Beach) California, (Murphy)North Carolina, and Pennsylvania. The company has provided cost sharing in the past. This is anticipated in the future though it is dependent on a number of factors including the rewarded amount. Past amounts have been as high as 30%. 20%-25% can be expected. Budget Breakdown is:

Engineering/basic research: \$500,000.00

Final prototype and field testing: \$3,000,000.00

Materials/design improvements: \$350,000.00

Software modifications/improvements: \$150,000.00

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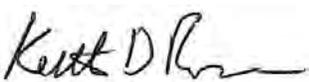
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Project Name: Family of Motors Capability Demonstration

Head of the organization making request: Name: Keith Ross

Title: Senior Vice President, General Counsel

Signature: 

Date: April 2, 2009

Senator Robert Bennett FY2010 Defense Authorization and Appropriation Request Form

If submitting multiple requests:	Priority #	3	of	4		Date:	3/6/09
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Company/organization:		Alliant Techsystems (ATK)					
Address where majority of the work is to be performed:		9160 North Highway 83					
City:	Corinne	State:	UT	Zip:	84307		
Corporate point of contact:	Casey Betzold						
Phone:							
Lobbyist point of contact:	Erin Neal						
Phone:							

Project name:		Family of Motors Capability Demonstration					
Is this a request for an appropriation, authorization, or both?		Both					
Proposed funding agency:		Air Force					
Account:	RDTE, Air Force	Budget line number [from DoD exhibit O-1, P-1, or R-1]:			TBD		
Line title:	Aerospace Propulsion and Power Technology	Program Element number:		0603216F			
Is this project funded in the President's budget request? (Yes or No):		No	If yes, amount:	\$			
Funding request:		\$ 10,000,000					
Is the project in a Service Chief's Unfunded Priority or Unfunded Requirements List? (Yes or No):		No					
If yes, ranking:		Amount:	\$				

DoD or service program manager:		Keith McFall			Phone:	
Office name:	CIV Air force Research Laboratory, Edwards AFB, CA		Email:			
Other DoD point of contact/advocate:		Dr. Sandra Slivinsky			Phone:	
Office name:	Ballistic Missile Technology, Air Force Research Laboratory/VSE-B		Email:			

Purpose of project (limit to 250 words and be as accurate and concise as possible— this language will be shared with the Senate Appropriations Committee. You may also submit a separate white paper with more detail on the project):

The fielding of next-generation prompt global strike (PGS), operationally responsive space (ORS), land-based strategic deterrence, and missile defense systems are amongst the Department of Defense's (DOD) highest modernization priorities. Yet, the collective expense in developing all of these systems concurrently is insurmountable within the DOD's future projected fiscal resources. For this reason, the Air Force has advocated the application of a "Family of Motors" (FoM) concept to eliminate a significant portion of the booster stack development costs associated with all of these future mission needs. However, there are still several unfunded areas expected where additional funds would help to reduce schedule impacts, increase product fidelity, and reduce overall program costs for the fielding of future FoM-based systems. Some of the unfunded areas that need immediate attention include the domestic case fiber requirement for all strategic systems, increased fidelity modeling and simulation capabilities, and insensitive munitions qualification and

testing for all new systems (including large solid rocket motors). Addressing these requirements now with some additional funds will provide much larger cost savings in future systems.

Does the request meet an official DoD or service requirement? If so, cite official requirement documents and attach copies if available.

U.S. Strategic Command (USSTRATCOM) has been assigned a number of missions, including Prompt Global Strike (PGS), Operationally Responsive Space (ORS), land-based strategic deterrence, and missile defense. However, projected fiscal constraints make the development and fielding of a new or next-generation capability for each requirement cost prohibitive. The Family of Motors (FoM) concept addresses these missions by providing a motor family that can be used across multiple mission areas, greatly reducing overall development costs.

The Air Force, going forward, is requiring that the carbon fiber rocket motor case for strategic weapons systems necessarily be domestically produced. This requirement is already being addressed on large-class solid rocket motors within the FoM effort. However, not yet funded are qualification and testing for medium-class FoM motors in support of the next generation of strategic and missile defense systems.

Department of Defense-wide, insensitive munitions (IM) are now required during the development of all new weapons systems. An IM-compliant weapon system is one which can withstand most worst-case scenarios in handling and use, with the weapon system activating only at the time in which it is intended. Over the past decade, as higher performance has been desired, and therefore new systems have been designed, IM requirements have had increasingly greater influence over the design of missiles. These requirements have affected tactical motor programs due to more recent design efforts; whereas, IM has not affected legacy strategic and space programs. As the nation looks to next generation strategic and space launch systems, development of IM solutions for these applications is necessary. For these systems, solutions are required to enable IM compliance that include worst-case operational scenarios that can occur during storage, shipping, handling, and use.

Proposed bill and/or report language requested:

None required

Please list industry, academic, and government partners:

N/A

Will this request be submitted to other Senate or House offices? If so, please list:

Senator Hatch

Representatives Rob Bishop, Chaffetz, Dicks, Franks, Kingston, Matheson, Tauscher, Turner

Have, or will, committee staff be approached regarding this project? If so, please list staff member AND committee.

Absolutely, Madelyn Creedon and Arun Seraphin (SASC), Betsy Schmid and Brian Potts (SAC-D)

Has funding previously been requested for this project?	Yes
If yes, please fill out the following table as far as applicable	
Year and amount requested	Was funding provided? If so, amount:
FY2008 – \$15.0 M requested	\$8.0 M appropriated

Please provide a budget breakdown for the amount requested, including locations where funding will be spent:

\$6.0M for Domestic Case Fiber qualification of medium class motor family
\$1.5M for Aging and Surveillance data gathering of existing aged motor technology
\$1.0M for generation of increased ability for modeling and simulation capability
\$0.5M for Insensitive Munitions Study and Requirements Verification effort

All work will be done in Promontory and Magna, Utah, at ATK facilities.

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Project Name: **_FEATHAR – Fusion, Exploitation, Algorithm, Targeting High-Altitude Reconnaissance_**

Head of the organization making request: Name: __Douglas K. Lemon, Ph.D.____

Title: __Laboratory Director____

Signature: 

Date: __March 25, 2009____

Senator Robert Bennett FY2010 Defense Authorization and Appropriation Request Form

If submitting multiple requests:	Priority# Subcmte. SDL USU/SDL Combined	1	of	24		Date:	March 6, 2009
Company/organization:		Space Dynamics Laboratory					
Address where majority of the work is to be performed:		1695 N. Research Park Way					
City:	North Logan	State:	Utah	Zip:	84341		
Corporate point of contact:	Niel Holt						
Phone:							
Lobbyist point of contact	David B. Lee, Lee & Smith, PC						
Phone:							

Project name:		FEATHAR – Fusion, Exploitation, Algorithm, Targeting High-Altitude Reconnaissance					
Is this a request for an appropriation, authorization, or both?		Both.					
Proposed funding agency:		Department of Defense, Navy, Naval Research Laboratory (NRL)					
Account:	RDT&E – Navy	Budget line number [from DoD exhibit O-1, P-1, or R-1]:			R-1: Line 199		
Line title:	Airborne Reconnaissance Systems	Program Element number:		PE 0305206N			
Is this project funded in the President's budget request? (Yes or No):		Yes.	If yes, amount:	\$ 55,719M (FY09)			
Funding request:		\$ 8,700,000					
Is the project in a Service Chief's Unfunded Priority or Unfunded Requirements List? (Yes or No):		Uncertain/TBD					
If yes, ranking:		Amount:	\$				

DoD or service program manager:		Dale C. Linne von Berg, Branch Head, Applied Optics Branch			Phone:	
Office name:	Applied Optics Branch, Optical Sciences Division Naval Research Laboratory (NRL) 4555 Overlook Ave., S.W. Washington, D.C. 20375-5000			Email:		
Other DoD point of contact/advocate:					Phone:	
Office name:				Email:		

Purpose of project (limit to 250 words and be as accurate and concise as possible– this language will be shared with the Senate Appropriations Committee. You may also submit a separate white paper with more detail on the project):

Utah State University/Space Dynamics Laboratory in association with the Navy has developed highly advanced technologies in the areas of reconnaissance systems, advanced sensors, imagery processing/fusion exploitation systems, digital links, tactical UAVs, avionics, and control stations. Building upon this research, FEATHAR will improve

upon and integrate these technologies onto airborne platforms to demonstrate, in an operational scenario, the capability to cross-cue sensors allowing for discovery and identification of obscured targets of interest.

A manned or unmanned airborne platform equipped with a small synthetic aperture radar (SAR) can detect metal objects. These SAR detections can then cue a visible or infrared (IR) sensor to collect high resolution imagery of the area of interest in real-time. The cue along with the imagery can then be linked to the ground, displayed, chipped, and disseminated to the warfighter.

SDL has built and demonstrated prototype SAR, visible, and IR sensors compatible with Tier II unmanned vehicles. Cueing algorithm development and additional sensor integration (such as a small hyperspectral) is required to allow for producible sensor systems for airborne platforms with this advanced technology. With these advanced sensors and algorithms, this new sensor technology will be turned over to the Services for procurement and platform integration.

To demonstrate these advanced FEATHAR capabilities, existing multi-INT sensors and aircraft will be utilized for the operational scenario. In addition, this effort would require development and advancement of sensor control processing, exploitation, fusion, and interactive link systems for the multiple sensor/UAV control, arbitration, exploitation and dissemination in a networked airborne environment.

Does the request meet an official DoD or service requirement? If so, cite official requirement documents and attach copies if available.

Most Pressing Military Issues, August 2006, JROCM 211-06, 18 October 2006:

- Collect and fuse multi-source sensor data increasing situational understanding
- Provide persistent surveillance in ungoverned/denied areas
- Establish capability to locate, tag, and track individuals.

Proposed bill and/or report language requested:

+\$8,700,000 FEATHAR, Space Dynamics Laboratory, North Logan, UT

Please list industry, academic, and government partners:

Naval Research Laboratory (NRL)

Will this request be submitted to other Senate or House offices? If so, please list:

None.

Have, or will, committee staff be approached regarding this project? If so, please list staff member AND committee.

None.

Has funding previously been requested for this project?

Yes.

If yes, please fill out the following table as far as applicable	
Year and amount requested	Was funding provided? If so, amount:
FY08 - \$9,900,000	\$4,000,000
FY09 - \$9,900,000	\$6,000,000

Please provide a budget breakdown for the amount requested, including locations where funding will be spent:

Space Dynamics Laboratory, North Logan, UT:	\$6,960,000
Naval Research Laboratory, Washington, DC:	\$1,740,000

FEATHAR – Fusion, Exploitation, Algorithm, Targeting High-Altitude Reconnaissance

Funding: 2010 - \$8.7M

PE: 0305206N Airborne Reconnaissance Systems

Need: In hostile environments, there is a need for a forward deployed standoff airborne multi-UAS control and exploitation system that would identify, geo-locate, and track enemy targets. This information also needs to be disseminated from the airborne platform in near real-time for remote command decisions.

Explanation: In many hostile scenarios, use of manned surveillance and reconnaissance assets is prohibitive. What is lacking is the ability to command, control, collect, and disseminate imagery from multiple Unmanned Aerial Systems (UAS) while keeping the forward deployed operators out of harms way. Building on current FEATHAR efforts, FEATHAR 2010 would provide additional much needed capability for improved cueing, fusion, exploitation, and dissemination of data products from multiple UAS. This system would simultaneously extend the area of intelligence gathering, provide a portable real-time processing, exploitation and dissemination node to identify, geo-locate, and track enemy targets. Depending on operating need, airborne or ground based platforms could also provide the command, control, and dissemination.

Approach: Utah State University/Space Dynamics Laboratory in association with the Navy has developed highly advanced technologies in the areas of reconnaissance systems, advanced sensors, imagery processing/fusion exploitation systems, digital links, tactical UAS, avionics, and control stations. Current FEATHAR systems include: NuSAR, a dual band synthetic aperture radar system targeted for UAS use; EyePod, a visible and long wave infrared ball gimballed system; both embedded airborne and ground processing; fusion software; and cueing algorithms and software. Building upon this research, FEATHAR would compliment current FEATHAR systems, advance the technology and integrate these technologies onto airborne platforms to demonstrate, in an operational scenario, the following needed capabilities:

1. Enhanced integrated multi-intelligence sensor systems (e.g. high resolution visible/infrared, Hyper-spectral, Synthetic Aperture Radar, Chemical/Biological, Acoustic, Signals Intelligence, etc.) on multiple-networked aircraft platforms.
 - a. Specifically advancing the technology in the area of hyperspectral imaging by prototyping a small, micro-mirrored hyperspectral instrument. This new hyperspectral instrument, while being small enough to complement the current UAS sensor suite, will allow added hyperspectral ground coverage. This added ground coverage would allow similar ground coverage as electro-optical visible and infrared sensor and thus allow a much greater area of ground coverage to be fused with a single aircraft pass. Hyperspectral sensing along with this increased ground coverage

also allows for real-time cueing of other sensor systems using hyperspectral data.

- b. Signal intelligence (SIGINT) is another effective way to identify targets of interest and cue other sensors. A SIGINT sensor will be adapted for Class III UAS use and be used as another method of fusing information from other FEATHAR sensors and as a method for cueing these sensors.
2. Real-time exploitation, fusion, and networked dissemination of targeting information and intelligence products needed for time critical strike applications.
3. Real-time auto-thresholding algorithms for interactive fusion-based target detection and data mining.

To demonstrate these advanced FEATHAR capabilities, existing multi-INT sensors and aircraft will be utilized for the operational scenario. In addition, this effort would require development and advancement of sensor control processing, exploitation, fusion, and interactive link systems for the multiple sensor/UAV control, arbitration, exploitation and dissemination in a networked airborne environment.

ADDENDUM

**Senator Robert F. Bennett Appropriation Disclosure Requirements
Fiscal Year 2010**

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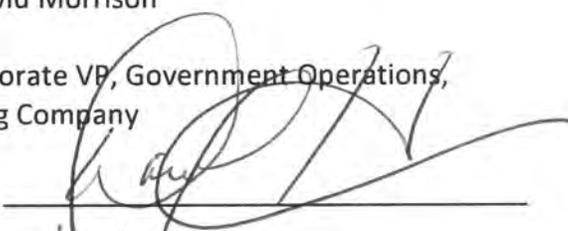
Going forward, Senator Bennett will continue to work to represent Utah's interests by ensuring Utah's priorities are adequately represented with congressionally directed spending.

Note: A signed addendum must be returned for **each appropriations request submitted** for Fiscal Year 2010.

Project Name: Ground Based Mid-course Defense - GMD

Head of the organization making request: Name: David Morrison

Title: Corporate VP, Government Operations,
The Boeing Company

Signature: 

Date: April 7, 2009

**Senator Robert Bennett FY2010
Defense Authorization and Appropriation Request Form**

If submitting multiple requests:	Priority #	1	of	3	Date:	3/6/2009
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Company/organization:		The Boeing Company					
Address where majority of the work is to be performed:		Ft. Greeley, Alaska; Vandenburg AFB, California; European Interceptor Site in Poland (TBD)					
City:		State:		Zip:			
Corporate point of contact:	Ben Cassedy						
Phone:							
Lobbyist point of contact:	Nick Abramczyk						
Phone:							

Project name:		Ground-based Midcourse Defense - Ballistic Missile Defense Midcourse Defense Segment					
Is this a request for an appropriation, authorization, or both?		Both					
Proposed funding agency:		Department of Defense					
Account:	Defense-Wide RDT&E Ballistic Missile Defense Midcourse Defense Segment / PE: 0603882C/ RDT&E, DW/04 Advanced Component Development and Prototypes (ACD&P)			Budget line number [from DoD exhibit O-1, P-1, or R-1]:			
Line title:	Ballistic Missile Defense Midcourse Defense Segment			Program Element number:	0603882C		
Is this project funded in the President's budget request? (Yes or No):			TBD	If yes, amount:	\$ TBD		
Funding request:			\$ Need adequate funding in FY10, not less than \$1.748 B (as projected in FY09) in order to maintain and expand GMD capability				
Is the project in a Service Chief's Unfunded Priority or Unfunded Requirements List? (Yes or No):			No				
If yes, ranking:		Amount:	\$				

DoD or service program manager:		Missile Defense Agency Mr. Carlos Kingston Building 5222, Martin Rd Redstone Arsenal, Al 35898		Phone:	
Office name:		Email:			
Other DoD point of contact/advocate:				Phone:	
Office name:		Email:			

Purpose of project (limit to 250 words and be as accurate and concise as possible– this language will be shared with the Senate Appropriations Committee. You may also submit a separate white paper with more detail on the project):

The Ground-Based Midcourse Defense (GMD) element is a key component of the Ballistic Missile Defense System (BMDS). This element consists of multiple sensors, a complex communications system, fire control capability, and ground-based interceptors capable of intercepting intermediate and long-range ballistic missile threats in their midcourse phase of flight.

Does the request meet an official DoD or service requirement? If so, cite official requirement documents and attach copies if available.

n/a

Proposed bill and/or report language requested:

n/a

Please list industry, academic, and government partners:

n/a

Will this request be submitted to other Senate or House offices? If so, please list:

YES. AL, AK, MO, AZ, UT, CO delegations

Have, or will, committee staff be approached regarding this project? If so, please list staff member AND committee.

SASC-
Richard Fieldhouse, maj
Dana White, min

HASC-
Frank Rose, maj
Kari Bingen, min

HACD- Sarah Young
SACD- Alycia Farrel

Has funding previously been requested for this project?	Yes
If yes, please fill out the following table as far as applicable	
Year and amount requested	Was funding provided? If so, amount:
<u>FY 2009</u>	\$1.554B
<u>FY 2008</u>	\$2.258B
<u>FY 2007</u>	\$3.055B
<u>FY 2006</u>	\$2.489B
<u>FY 2005</u>	\$3.25B

Please provide a budget breakdown for the amount requested, including locations where funding will be spent:

Ft. Greeley, Alaska; Vandenburg AFB, California; European Interceptor Site in Poland (TBD)
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ADDENDUM

Senator Robert F. Bennett Appropriation Disclosure Requirements Fiscal Year 2010

Under the new disclosure requirements announced at the beginning of the 111th Congress by the Senate and House Appropriations Committees, all members of Congress are required to post on their websites each appropriations request they submit to the respective subcommittees. The information must include an explanation of the project, a justification for the request, and the requesting entity.

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Going forward, Senator Bennett will continue to work to represent Utah's interests by ensuring Utah's priorities are adequately represented with congressionally directed spending.

Note: A signed addendum must be returned for each appropriations request submitted for Fiscal Year 2010.

Project Name: Preservation of Navy Airfield Asphalt

Project Description:

Application of asphalt preservation material to navy asphalt airfield and other critical asphalt pavements. Preservation of Navy airfield assets is critical to the Navy's ability to perform its mission. Preservation of airfield assets is significantly more cost effective, and readiness promoting, than costly corrective maintenance, or reconstruction. GAO-03-753 report on corrosion control within the DOD states, "DOD and military services do not have an effective approach to prevent and mitigate corrosion," Within the scope of that report is the significant cost of corrective maintenance to airfield asphalt pavements that could be greatly reduced with inexpensive early preventive maintenance. As an example: with 24M sq/yds applied on 160 FAA and DOD airfields, including 150 runways, GSB-88 has demonstrated a unique ability to inexpensively extend asphalt pavements by more than 29%. Navy pavement specialists have estimated that a 25% extended life of Navy airfield pavements would save the Navy more than \$125,000,000 over five years and would only cost the Navy approximately \$3.7M a year for five years to treat 100% of Navy airfield asphalt. with FY-05 congressional funding, widespread

applications of GSB-88 have occurred on Navy airfield pavements. Navy pavement specialists have subsequently evaluated those other GSB-88 airfield applications with extremely positive results.

Head of the organization making requests: Name: Jay Walters

Title: President

Signature: Jay Walters

Date: March 26, 2004

Senator Robert Bennett FY2010 Defense Authorization and Appropriation Request Form

If submitting multiple requests:	Priority #		of		Date:	February 25, 2009
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Company/organization:		Asphalt Systems, Inc.					
Address where majority of the work is to be performed:		P.O. Box 25511					
City:	Salt Lake City			State:	Utah	Zip:	84125
Corporate point of contact:		Mr. Gail L. Porritt					
Phone:							
Lobbyist point of contact:		Romano Romani					
Phone:							

Project name:		GSB-88 Preservation of Navy Airfield Asphalt					
Is this a request for an appropriation, authorization, or both?		Appropriation					
Proposed funding agency:		Navy Operations & Maintenance					
Account:	OM, N			Budget line number [from DoD exhibit O-1, P-1, or R-1]:		O-1	
Line title:		BSM1, Facility Sustainment Restoration & Modernization		Program Element number:		0203176N	
Is this project funded in the President's budget request? (Yes or No):			No	If yes, amount:	\$		
Funding request:			\$ 4,000,000.00				
Is the project in a Service Chief's Unfunded Priority or Unfunded Requirements List? (Yes or No):			No				
If yes, ranking:		Asst. Sec. of the Navy	Amount:	\$ 4,000,000.00			

DoD or service program manager:		*There is no DoD or Service Program Manager yet. However, if this project is established, Mr. Steven R. Beattie , Facilities Management & Sustainment PLL from the office of Naval Facilities Engineering Command will mostly likely be assigned this post. However, Mr. Gregory Cline , PE, CE Pavements, is familiar with this issue and can speak to the technical elements and validity of this project.				Phone:	
Office name:		Mr. Beattie: Naval Facilities Engineering Command, 1322 Patterson Avenue, SE, Suite 100, Washington Navy Yard, Washington, DC 20374-5065 Mr. Cline: Water Front Materials Division, NAVFAC, NFESC, Code 63, 1100 23 rd Ave., Port Hueneme, CA 93043		Email:			
Other DoD point of contact/advocate:						Phone:	
Office name:				Email:			

Purpose of project (limit to 250 words and be as accurate and concise as possible— this language will be shared with the Senate Appropriations Committee. You may also submit a separate white paper with more detail on the project):

Preservation of Navy airfield assets is critical to the Navy's ability to perform its mission. Preservation of airfield assets is significantly more cost effective, and rediness promoting, than costly corrective maintenance, or reconstruction. GAO-03-753 report on corrosion control within the DOD states, "DOD and military services do not have an effective approach to prevent and mitigate corrosion." Within the scope of that report is the significant cost of corrective maintenance to airfield asphalt pavements that could be greatly reduced with inexpensive early preventive maintenance. With 24M sq/yds applied on 160 FAA and DOD airfields, including 150 runways, GSB-88 has demonstrated a unique ability to inexpensively extend asphalt pavements by more than 29%. Navy pavement specialists have estimated that a 25% extended life of Navy airfield pavements would save the Navy more than \$125,000,000 over five years and would only cost the Navy approximately \$3.7M a year for five years to treat 100% of Navy airfield asphalt. With FY-05 congressional funding, widespread applications of GSB-88 have occurred on Navy airfield pavements. Navy pavement specialists have subsequently evaluated those and other GSB-88 airfield applications with extremely positive results, which has been confirmed by top NAVFAC officials and Asst. Sec. of Navy Buddy Penn.

Does the request meet an official DoD or service requirement? If so, cite official requirement documents and attach copies if available.

UFC 3-270-01 O&M: Asphalt Maintenance and Repair and UFC 3-270-06 O&M: PAVER Asphalt Surfaced Airfields Pavement Condition Index

Proposed bill and/or report language requested:

(Add) **\$4,000,000 additional funds to Navy O&M budget to fund first year of an ongoing GSB-88 airfield application program within the Navy.**

Please list industry, academic, and government partners:

None

Will this request be submitted to other Senate or House offices? If so, please list: Yes

Senator Orrin G. Hatch

Have, or will, committee staff be approached regarding this project? If so, please list staff member AND committee.

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Has funding previously been requested for this project?	Yes
If yes, please fill out the following table as far as applicable	
Year and amount requested	Was funding provided? If so, amount:
FY2009 (3/5/2008) Request Submitted - \$4,000,000.00	No funding was received/provided.
FY2005 – Requested \$3,000,000.00	Yes, \$2,000,000.00

Please provide a budget breakdown for the amount requested, including locations where funding will be spent:

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ADDENDUM

**Senator Robert F. Bennett Appropriation Disclosure Requirements
Fiscal Year 2010**

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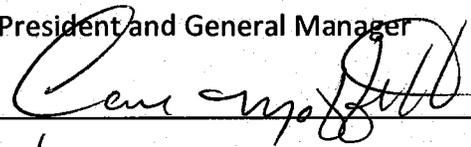
Going forward, Senator Bennett will continue to work to represent Utah's interests by ensuring Utah's priorities are adequately represented with congressionally directed spending.

Note: A signed addendum must be returned for **each appropriations request submitted** for Fiscal Year 2010.

Project Name: High Temperature Electric Flight Control Project

Head of the organization making request: Name: Carl Moffitt

Title: Vice President and General Manager

Signature: 

Date: 4-22-09

Senator Robert Bennett FY2010 Defense Authorization and Appropriation Request Form

If submitting multiple requests:	Priority #	1	of	1		Date:	
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Company/organization:		Parker Hannifin – Control Systems Division					
Address where majority of the work is to be performed:		14300 Alton Parkway					
City:	Irvine	State:	CA	Zip:	92618		
Corporate point of contact:	John Miles						
Phone:							
Lobbyist point of contact	Justin McCaulley						
Phone:							

Project name:		High Temperature Electric Flight Control Project (HTEFC)					
Is this a request for an appropriation, authorization, or both?		Appropriation					
Proposed funding agency:		Air Force					
Account:	RDTE, AF	Budget line number [from DoD exhibit O-1, P-1, or R-1]:			21		
Line title:		Program Element number:			0603216F		
Is this project funded in the President's budget request? (Yes or No):		No	If yes, amount:	\$			
Funding request:		\$ 2,475,000					
Is the project in a Service Chief's Unfunded Priority or Unfunded Requirements List? (Yes or No):		No					
If yes, ranking:		Amount:	\$				

DoD or service program manager:		Captain Michelle Libbey			Phone:	
Office name:	SAF/FMBL Congressional Liaison	Email:				
Other DoD point of contact/advocate:					Phone:	
Office name:		Email:				

Purpose of project (limit to 250 words) and be as accurate and concise as possible– this language will be shared with the Senate Appropriations Committee. You may also submit a separate white paper with more detail on the project):

Parker Hannifin Corporation seeks federal funding for the High Temperature Electric Flight Control Project (HTEFC) which will enable laboratory demonstration and testing of high temperature, Jam-Tolerant electric flight control technology that promotes reliable, safe, and energy efficient systems. Developed at Parker Hannifin's private expense, the HTEFC will be used in future military and commercial applications. Validations of designs are required for demonstrating Technology Readiness Level (TRL) 6. TRL is a scale which the Department of Defense uses to evaluate a technology's maturity for defense application. TRL 6 is the demonstration of a system or subsystem in a relevant environment.

The advancement of electric flight control systems in aviation will create engineering and manufacturing jobs at Parker

facilities in Irvine, California; Ogden, Utah; and Dublin, Georgia.

Does the request meet an official DoD or service requirement? If so, cite official requirement documents and attach copies if available.

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Proposed bill and/or report language requested:

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Please list industry, academic, and government partners:

Will this request be submitted to other Senate or House offices? If so, please list:

Senator Dianne Feinstein (CA), Senator Barbara Boxer (CA), Senator Saxby Chambliss (GA), Congressman Jim Marshall (GA-8), Congressman Rob Bishop (UT-1), Senator Orrin Hatch (UT)

Have, or will, committee staff be approached regarding this project? If so, please list staff member AND committee.

Has funding previously been requested for this project?

No

If yes, please fill out the following table as far as applicable

Year and amount requested	Was funding provided? If so, amount:

Please provide a budget breakdown for the amount requested, including locations where funding will be spent:

Detailed Budget Breakdown:

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ITEM	Parker Investment FY08 & FY09	Parker Proposed HTEFC Investment FY10	Requested Federal Component FY10	Overall Budget FY10
Engineering	\$1,310,500	\$200,000	\$600,000	\$800,000
Hardware (Actuation & Controls)	\$330,000	\$212,500	\$637,500	\$850,000
Test Equipment & Fixturing	\$50,000	\$187,500	\$562,500	\$750,000
Demonstration & Validation	\$0	\$225,000	\$675,000	\$900,000
TOTAL	\$1,690,500	\$825,000	\$2,475,000	\$3,300,000

ADDENDUM

Senator Robert F. Bennett Appropriation Disclosure Requirements
Fiscal Year 2010

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Going forward, Senator Bennett will continue to work to represent Utah's interests by ensuring Utah's priorities are adequately represented with congressionally directed spending.

Note: A signed addendum must be returned for **each appropriations request submitted** for Fiscal Year 2010.

Project Name: **A Proposal to Congress for the Development of Highly Functional, Neurally Controlled, Skeletally Attached, and Intelligent Prosthetic Devices: A Joint Request from The Department of Orthopaedics at the University of Utah (UU) and The Bioengineering Institute at Worcester Polytechnic Institute (WPI)**

Head of the organization making request: Name: Michael K. Young

Title: President, University of Utah

Signature: Michael K. Young

Date: 04/17/09

Senator Robert Bennett FY2010 Defense Authorization and Appropriation Request Form

If submitting multiple requests:	Priority #	1	of	1		Date:	4/17/09
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Company/organization:		University of Utah (UU)					
Address where majority of the work is to be performed:		201 Presidents Circle Room 201					
City:	Salt Lake City			State:	Utah	Zip:	84112
Corporate point of contact:		Michael Young, President, University of Utah OR Charles Saltzman, MD, Chairman, Department of Orthopaedics, University of Utah					
Phone:					Email:		
Lobbyist point of contact		Potomac Associates					
Phone:					Email:		

Project name:		A Proposal to Congress for the Development of Highly Functional, Neurally Controlled, Skeletally Attached and Intelligent Prosthetic Devices: A Joint Request from The Department of Orthopaedics at the University of Utah (UU) and The Bioengineering Institute at Worcester Polytechnic Institute (WPI)					
Is this a request for an appropriation, authorization, or both?		Appropriation					
Proposed funding agency:		Department of the Army					
Account:	Research, Development, Test and Evaluation			Budget line number [from DoD exhibit O-1, P-1, or R-1]:		R-1-30	
Line title:		Medical Advanced Technology		Program Element number:		0603002A	
Is this project funded in the President's budget request? (Yes or No): no				If yes, amount:		\$	
Funding request:				\$40,000,000			
Is the project in a Service Chief's Unfunded Priority or Unfunded Requirements List? (Yes or No):							
If yes, ranking:				Amount:		\$	

DoD or service program manager:		Cheryl Merritt			Phone:		
Office name:	Telemedicine and Advanced Technology Research Center			Email:			
Other DoD point of contact/advocate:					Phone:		
Office name:				Email:			

Purpose of project (limit to 250 words and be as accurate and concise as possible— this language will be shared with the Senate Appropriations Committee. You may also submit a separate white paper with more detail on the project):

Background and Significance: The conflicts in Iraq and Afghanistan have resulted in an unprecedented number of warriors surviving multiple limb loss. The resulting "short stump" amputees can not be fitted with conventional socket technology.

Goals: In joint collaboration, the University of Utah and WPI will develop new technology for these needy men and women to attach intelligently designed prostheses/ implants directly to the skeleton. This technology, with established proof of concept, could replace the standard socket technology for most patients with limb loss in the near future. In 2008, TATRC,

USAMRMC, U of U and WPI began discussions on complementary research based upon our previous individual successes in this field. Drs. Bloebaum and Saltzman at Utah and Drs. McGimpsey and Lambert at WPI have been identified as the leaders at their respective institutions.

Budget: We are requesting a total of \$40,000,000, the known industry cost for developing new orthopaedic device systems. We anticipate needing five years to accomplish this vital work on behalf of both combatant and civilian amputees. The work will involve clinical and translational research in the areas of implant design, biomechanical testing, electrical stimulation for osseointegration and infection control, microbiology and antimicrobial infection strategies, direct neuroprosthetic control, tissue regeneration, the development of pluripotent cell lines and finally, patient rehabilitation. At the end of these five years we anticipate clinical implementation.

Outcomes: We are confident that together we have the experience to deliver an advanced implantable device ready for clinical trials. The minimum result that could be expected from this collaboration is the broadening of academic knowledge and establishing academic, industrial and governmental relationships between Massachusetts and Utah as well as the economic development of each state. More importantly, the project will improve the quality of life for a significant portion of the more than 1,500,000 American amputees.

Does the request meet an official DoD or service requirement? If so, cite official requirement documents and attach copies if available.

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Proposed bill and/or report language requested:

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Please list industry, academic, and government partners:

Worcester Polytechnic Institute (WPI)
Telemedicine and Advanced Technology Research Center

Will this request be submitted to other Senate or House offices? If so, please list:

Senator Orrin G. Hatch
Senator Edward M. Kennedy

Have, or will, committee staff be approached regarding this project? If so, please list staff member AND committee.

Mr. William Castle, Military Liaison for Senator Orrin G. Hatch

Has funding previously been requested for this project?	No
If yes, please fill out the following table as far as applicable	
Year and amount requested	Was funding provided? If so, amount:

Please provide a budget breakdown for the amount requested, including locations where funding will be spent:

University of Utah Personnel and Supplies.....	\$8,637,900
University of Utah Animal Studies.....	\$6,000,000
University of Utah Facilities and Administration.....	\$4,362,100
Worcester Polytechnic Institute Personnel and Supplies.....	\$8,541,400.
Worcester Polytechnic Institute Facilities and Administration.....	\$4,458,600
Telemedicine and Advanced Technology Research Center.....	\$8,000,000

A Proposal to Congress for the Development of Highly Functional, Neurally Controlled, Skeletally Attached, and Intelligent Prosthetic Devices:

**A Joint Request from
The Department of Orthopaedics at the University of Utah (UU)
and
The Bioengineering Institute at Worcester Polytechnic Institute (WPI)**

Background and Significance

The conflicts in Iraq and Afghanistan have resulted in an unprecedented rate of extremity amputations in U.S. warriors. Body armor and advanced medical care are now saving a higher percentage of battle casualty victims than in previous conflicts. However, the cost of a life saved is often a warrior living with the residual consequences of severe multiple extremity trauma. Since armor cannot be used to protect the combatant's limbs from blast and missile injuries, these injured extremities are frequently treated only by amputation.

The resulting "short stump" amputees cannot be fitted with conventional socket attachment technology because the remaining limb is too short to hold the external prosthesis. Well intentioned attempts at socket prosthetic fitting result in skin breakdown, limited motion in the proximal girdle joints of the pelvis and shoulder, the inability to sit, pain and ultimately discarding the prostheses and resignation to life in a wheelchair or the inability to feed, groom or perform toiletry functions for themselves.

These unfortunate warriors, and others with limb loss due to cancer, trauma or disease, should have dramatic improvement in their functional independence and quality of life with a neurally controlled, skeletally attached intelligent prosthetic device. We seek support for a collaboration between two experienced groups of investigators from Utah and Massachusetts to allow the synergy needed to accomplish this clearly reachable and important goal.

Goals

The goal of this research is to deliver, at the end of the initial five-year funding period, a revolutionary osseointegrated prosthetic device that is ready for clinical trials. The device will be available for both upper and lower extremities and will incorporate soft tissue integration between the skin and the implant that is attached internally to the skeleton and remain infection free. Ultimately, the partnership between the Department of Orthopaedics at UU and the Bioengineering Institute at WPI, will develop intelligent, environmentally interactive prosthetic limbs that have all the characteristics and functionality of a human limb, including range of motion, joint articulation, nervous system control and sensory feedback. We will deliver significantly improved quality of life for the young men and women in the armed services who have made extreme sacrifices on our behalf in the conflicts of Iraq, Afghanistan and elsewhere. We believe it is our responsibility as a society to ensure that the utmost is done to heal them. This ambitious program will involve researchers from both organizations as well as the academic, corporate and industrial collaborators of each partner in their home state.

Funding

In 2008, at the suggestion and urging of TATRC and the USAMRMC, UU and WPI began discussions on complementary prosthetics research and have reached the stage where a request for congressional support, for our combined research efforts is the next logical step. This unique partnership has the ability to integrate the implant technology being developed at UU, with the tissue engineering and neurosensing technology of WPI. The collaboration will address several clinical issues that currently limit and adversely affect the quality of life of amputees including phantom pain, limited mobility, absence of sensory feedback and the elimination of complex and cumbersome external socket attachment mechanisms that restrict limb function. We seek to drive this collaboration through the support of the USAMRMC as a partnering agency. We have existing relationships with the USAMRMC that will facilitate our research and allow us to move forward to rapidly introduce this technology into the

clinical armamentarium within the five-year funding period. We are requesting total funds of \$40,000,000 which will allow us to develop the customized clinically relevant implants needed for the clinic and pursue FDA approval of our research design for the clinical trial at the end of the funding period.

UU

The Department of Orthopaedics at UU, in collaboration with the Veterans' Administration, has a long history of prosthetics research and has recently demonstrated significant advancements in several key areas of prosthetic research and implant attachment to the skeleton and skin. A rehabilitation program has been developed to work with current amputees at UU and Salt Lake City VA Medical Center to educate patients to this developing technology, evaluate patient interests, and begin preparations for the expeditious and safe introduction of this technology into the United States.

To date, support has been obtained from local industry, NIH, USAMRMC, VA Research Rehabilitation and Development programs and foundations. We have expertise in implant design, infectious disease, bioengineering, biomechanics, clinical research, surgery development, biomaterials, patient evaluation and quality of life assessment, rehabilitation, gait performance, and patient care. At the Department of Orthopaedics at UU, Principal Investigators for the proposed research will be Roy Bloebaum, Ph.D. Research Professor and Albert and Margaret Hofmann Chair in Orthopaedic Surgery and Charles Saltzman, M.D. Professor and Chair of the Department of Orthopaedics.

WPI

The Center for Neuroprosthetics in the Bioengineering Institute at WPI is a multidisciplinary group of researchers who bring broad experience and expertise to the challenges of prosthetics development. These include close relationships with the Telemedicine and Advanced Technology Research Center (TATRC) and the Military Amputee Research Program (MARF) in the USAMRMC, the University of Massachusetts Medical School, Tufts Veterinary School and Harvard Medical School, as well as companies such as Foster-Miller and Liberating Technologies.

Electrical and Biomedical engineering faculty work closely with chemists, biophysicists and biologists on many of the basic and applied research areas important to prosthetics development, including biomaterials, biofilm resistant surfaces, soft and hard tissue integration, neuron growth and tissue regeneration through the use of pluripotent cell lines. The center is housed in WPI's Gateway Park, a new \$70M laboratory facility adjacent to the WPI campus. Our new location boasts world-class faculty, equipment and core facilities in a unique setting that encourages the kind of multidisciplinary approaches needed to solve prosthetics challenges. At WPI Principal Investigators for the proposed research will be W. Grant McGimpsey Ph.D. Professor; Associate Provost for Research and Graduate Studies ad interim; Director, WPI Bioengineering Institute and Christopher Lambert Ph.D. Research Associate Professor.

Summary and the Future

We are confident that together we will deliver, within the time frame of this program, an advanced, prosthetic device ready for clinical trials. This platform device will be available for both upper and lower limb replacement. It is clear the maturation of this program will generate a synergistic research relationship that has the potential to address the mechanical, biochemical, bioelectronic and even the genetic challenges of ultra advanced future prosthetics. Such challenges can only be met by a dedicated research team that exists at UU and WPI. It should be recognized that the minimum result that could be expected from this collaboration is the broadening of academic, industrial and government relationships between Massachusetts and Utah and further economic development in each state based on the life sciences, biomaterials, implant design and human health. More importantly, the project will improve the quality of life for a significant portion of the more than 1,500,000 American amputees.

Senator Robert Bennett FY2010 Defense Authorization and Appropriation Request Form

If submitting multiple requests:	Priority #	1	of	1		Date:	4/17/09
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Company/organization:		University of Utah (UU)					
Address where majority of the work is to be performed:		201 Presidents Circle Room 201					
City:	Salt Lake City			State:	Utah	Zip:	84112
Corporate point of contact:		Michael Young, President, University of Utah OR Charles Saltzman, MD, Chairman, Department of Orthopaedics, University of Utah					
Phone:		801/581-5701 801/587/5400		Email:		president@utah.edu charles.saltzman@hsc.utah.edu	
Lobbyist point of contact		Potomac Associates					
Phone:				Email:			

Project name:		A Proposal to Congress for the Development of Highly Functional, Neurally Controlled, Skeletally Attached and Intelligent Prosthetic Devices: A Joint Request from The Department of Orthopaedics at the University of Utah (UU) and The Bioengineering Institute at Worcester Polytechnic Institute (WPI)					
Is this a request for an appropriation, authorization, or both?		Appropriation					
Proposed funding agency:		Department of the Army					
Account:	Research, Development, Test and Evaluation		Budget line number [from DoD exhibit O-1, P-1, or R-1]:		R-1-30		
Line title:		Medical Advanced Technology		Program Element number:		0603002A	
Is this project funded in the President's budget request? (Yes or No): no			If yes, amount:		\$		
Funding request:			\$40,000,000				
Is the project in a Service Chief's Unfunded Priority or Unfunded Requirements List? (Yes or No):							
If yes, ranking:		Amount:		\$			

DoD or service program manager:		Cheryl Merritt			Phone:	301/619-7929
Office name:	Telemedicine and Advanced Technology Research Center			Email:	merritt@tatrc.org	
Other DoD point of contact/advocate:					Phone:	
Office name:				Email:		

Purpose of project (**limit to 250 words** and be as accurate and concise as possible— this language will be shared with the Senate Appropriations Committee. You may also submit a separate white paper with more detail on the project):

Background and Significance: The conflicts in Iraq and Afghanistan have resulted in an unprecedented number of warriors surviving multiple limb loss. The resulting "short stump" amputees can not be fitted with conventional socket technology.

Goals: In joint collaboration, the University of Utah and WPI will develop new technology for these needy men and women to attach intelligently designed prostheses/ implants directly to the skeleton. This technology, with established proof of concept, could replace the standard socket technology for most patients with limb loss in the near future. In 2008, TATRC,

USAMRMC, U of U and WPI began discussions on complementary research based upon our previous individual successes in this field. Drs. Bloebaum and Saltzman at Utah and Drs. McGimpsey and Lambert at WPI have been identified as the leaders at their respective institutions.

Budget: We are requesting a total of \$40,000,000, the known industry cost for developing new orthopaedic device systems. We anticipate needing five years to accomplish this vital work on behalf of both combatant and civilian amputees. The work will involve clinical and translational research in the areas of implant design, biomechanical testing, electrical stimulation for osseointegration and infection control, microbiology and antimicrobial infection strategies, direct neuroprosthetic control, tissue regeneration, the development of pluripotent cell lines and finally, patient rehabilitation. At the end of these five years we anticipate clinical implementation.

Outcomes: We are confident that together we have the experience to deliver an advanced implantable device ready for clinical trials. The minimum result that could be expected from this collaboration is the broadening of academic knowledge and establishing academic, industrial and governmental relationships between Massachusetts and Utah as well as the economic development of each state. More importantly, the project will improve the quality of life for a significant portion of the more than 1,500,000 American amputees.

Does the request meet an official DoD or service requirement? If so, cite official requirement documents and attach copies if available.

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Proposed bill and/or report language requested:

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Please list industry, academic, and government partners:

Worcester Polytechnic Institute (WPI)
Telemedicine and Advanced Technology Research Center

Will this request be submitted to other Senate or House offices? If so, please list:

Senator Orrin G. Hatch
Senator Edward M. Kennedy

Have, or will, committee staff be approached regarding this project? If so, please list staff member AND committee.

Mr. William Castle, Military Liaison for Senator Orrin G. Hatch

Has funding previously been requested for this project?	No
If yes, please fill out the following table as far as applicable	
Year and amount requested	Was funding provided? If so, amount:

Please provide a budget breakdown for the amount requested, including locations where funding will be spent:

University of Utah Personnel and Supplies.....	\$8,637,900
University of Utah Animal Studies.....	\$6,000,000
University of Utah Facilities and Administration.....	\$4,362,100
Worcester Polytechnic Institute Personnel and Supplies.....	\$8,541,400.
Worcester Polytechnic Institute Facilities and Administration.....	\$4,458,600
Telemedicine and Advanced Technology Research Center.....	\$8,000,000

A Proposal to Congress for the Development of Highly Functional, Neurally Controlled, Skeletally Attached, and Intelligent Prosthetic Devices:

**A Joint Request from
The Department of Orthopaedics at the University of Utah (UU)
and
The Bioengineering Institute at Worcester Polytechnic Institute (WPI)**

Background and Significance

The conflicts in Iraq and Afghanistan have resulted in an unprecedented rate of extremity amputations in U.S. warriors. Body armor and advanced medical care are now saving a higher percentage of battle casualty victims than in previous conflicts. However, the cost of a life saved is often a warrior living with the residual consequences of severe multiple extremity trauma. Since armor cannot be used to protect the combatant's limbs from blast and missile injuries, these injured extremities are frequently treated only by amputation.

The resulting "short stump" amputees cannot be fitted with conventional socket attachment technology because the remaining limb is too short to hold the external prosthesis. Well intentioned attempts at socket prosthetic fitting result in skin breakdown, limited motion in the proximal girdle joints of the pelvis and shoulder, the inability to sit, pain and ultimately discarding the prostheses and resignation to life in a wheelchair or the inability to feed, groom or perform toiletry functions for themselves.

These unfortunate warriors, and others with limb loss due to cancer, trauma or disease, should have dramatic improvement in their functional independence and quality of life with a neurally controlled, skeletally attached intelligent prosthetic device. We seek support for a collaboration between two experienced groups of investigators from Utah and Massachusetts to allow the synergy needed to accomplish this clearly reachable and important goal.

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Electrical and Biomedical engineering faculty work closely with chemists, biophysicists and biologists on many of the basic and applied research areas important to prosthetics development, including biomaterials, biofilm resistant surfaces, soft and hard tissue integration, neuron growth and tissue regeneration through the use of pluripotent cell lines. The center is housed in WPI's Gateway Park, a new \$70M laboratory facility adjacent to the WPI campus. Our new location boasts world-class faculty, equipment and core facilities in a unique setting that encourages the kind of multidisciplinary approaches needed to solve prosthetics challenges. At WPI Principal Investigators for the proposed research will be W. Grant McGimpsey Ph.D. Professor; Associate Provost for Research and Graduate Studies ad interim; Director, WPI Bioengineering Institute and Christopher Lambert Ph.D. Research Associate Professor.

Summary and the Future

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ADDENDUM

Senator Robert F. Bennett Appropriation Disclosure Requirements Fiscal Year 2010

Under the new disclosure requirements announced at the beginning of the 111th Congress by the Senate and House Appropriations Committees, all Members of Congress are required to post on their websites each appropriations request they submit to the respective subcommittees. The information must include an explanation of the project, a justification for the request, and the requesting entity.

Senator Bennett is requiring any entity seeking federal funding to sign, date, and return this form to his office by April 6, 2009. By signing below, the requesting entity acknowledges that each Fiscal Year 2010 Appropriations Request form submitted to Senator Bennett's office, along with this addendum, will be posted on the senator's website in compliance with the new practice of the committee, and will therefore be available to the public. By signing this addendum, the requesting entity also acknowledges that the corresponding appropriations request is a priority for the city, county, council, or other organization that it represents. Each request will continue to be thoroughly reviewed by Senator Bennett's office and by the staff of the Appropriations Committee.

Going forward, Senator Bennett will continue to work to represent Utah's interests by ensuring Utah's priorities are adequately represented with congressionally directed spending.

Note: A signed addendum must be returned for **each appropriations request submitted** for Fiscal Year 2010.

Project Name: Hypothermic Management Kit

Head of the organization making request: Name: Mike Orfanakis

Title: President - Thomas EMS

Signature: Mike Orfanakis

Date: 3/24/09

Senator Robert Bennett FY2010 Defense Authorization and Appropriation Request Form

If submitting multiple requests:	Priority #	1	of	1		Date:	3/25/09
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Company/organization:		Thomas EMS					
Address where majority of the work is to be performed:		3515 South 300 West, #5					
City:	Salt Lake City			State:	Utah	Zip:	84115
Corporate point of contact:		Mike Orfanakis					
Phone:							
Lobbyist point of contact		Marc Lubin					
Phone:							

Project name:		Hypothermic Management Kit					
Is this a request for an appropriation, authorization, or both?		Appropriation					
Proposed funding agency:		DOD					
Account:	Operation and Maintenance, Marine Corp			Budget line number [from DoD exhibit O-1, P-1, or R-1]:	BA 01		
Line title:		Operating Forces		Program Element number:			
Is this project funded in the President's budget request? (Yes or No):				Not Anticipated	If yes, amount:	\$	
Funding request:				\$ 3,000,000			
Is the project in a Service Chief's Unfunded Priority or Unfunded Requirements List? (Yes or No):				No			
If yes, ranking:		Amount:		\$			

DoD or service program manager:		Kevin Joyner			Phone:	
Office name:	Marine Corps Systems Command			Email:		
Other DoD point of contact/advocate:				Phone:		
Office name:				Email:		

Purpose of project (limit to 250 words) and be as accurate and concise as possible– this language will be shared with the Senate Appropriations Committee. You may also submit a separate white paper with more detail on the project):

The Hypothermic Management Kit is an upgrade from the currently deployed hypothermia sets. It contains the new Deployable Active Warming System (DAWS), the DAWS bag (waterproof 50/50) and the Climate Control Case with batteries. The Climate Control Case can be set to maintain stable drug temperatures up to 50 degrees above and below the outside temperature in a secure militarized case. The DAWS is a two part heating system designed for dealing with

Hypothermia during patient transport. Post trauma patients are highly susceptible to shock following injury or surgery. It's imperative to maintain the patient's body temperature during transport.

Does the request meet an official DoD or service requirement? If so, cite official requirement documents and attach copies if available.

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Proposed bill and/or report language requested:

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Please list industry, academic, and government partners:

BoundTree Medical

Will this request be submitted to other Senate or House offices? If so, please list:

Senator Orrin Hatch

Have, or will, committee staff be approached regarding this project? If so, please list staff member AND committee.

Has funding previously been requested for this project?	Yes
If yes, please fill out the following table as far as applicable	
Year and amount requested	Was funding provided? If so, amount:
FY09 \$2,000,000	No

Please provide a budget breakdown for the amount requested, including locations where funding will be spent:

Will purchase 1,000 Hypothermic Management Kits with Thomas EMS of Salt Lake City providing 60% of the product
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ADDENDUM

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Going forward, Senator Bennett will continue to work to represent Utah's interests by ensuring Utah's priorities are adequately represented with congressionally directed spending.

Note: A signed addendum must be returned for **each appropriations request submitted** for Fiscal Year 2010.

Project Name: ICBM Demonstration/Validation – Command and Control

Head of the organization making request: Name: David Morrison

Title: Corporate VP, Government Operations,
The Boeing Company

Signature: _____

Date: _____


April 7, 2009

Senator Robert Bennett FY2010 Defense Authorization and Appropriation Request Form

If submitting multiple requests:	Priority #		of		Date:	March 2, 2009
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Company/organization:		The Boeing Company					
Address where majority of the work is to be performed:		880 W. Heritage Park Blvd, Suite 200					
City:	Layton	State:	UT	Zip:	84041		
Corporate point of contact:	Rick Hartle						
Phone:							
Lobbyist point of contact	Steve Bachmann						
Phone:							

Project name:		ICBM Demonstration/Validation – Command and Control					
Is this a request for an appropriation, authorization, or both?		Both					
Proposed funding agency:		Air Force					
Account:	RDT&E	Budget line number [from DoD exhibit O-1, P-1, or R-1]:			R-46 (FY09)		
Line title:	ICBM Dem/Val	Program Element number:			0603851F		
Is this project funded in the President’s budget request? (Yes or No):		TBD	If yes, amount:	\$ TBD			
Funding request:		\$ 3.6M					
Is the project in a Service Chief’s Unfunded Priority or Unfunded Requirements List? (Yes or No):		TBD					
If yes, ranking:		Amount:	\$				

DoD or service program manager:		Randy Hill			Phone:	
Office name:	509 th ICBM Systems Sqd (Ground Systems)			Email:		
Other DoD point of contact/advocate:		Lt Col Scott Diezman			Phone:	
Office name:	SAF/USAL			Email:		

Purpose of project (limit to 250 words) and be as accurate and concise as possible– this language will be shared with the Senate Appropriations Committee. You may also submit a separate white paper with more detail on the project):

The Minuteman III system, including its Command and Control (C²) system, is being life-extended through 2020. However, modern technologies that can “net-enable” Minuteman will provide improved efficiencies and security being demanded of the system today, while reducing cost of ownership. As the Air Force responds to Congressional direction to extend the life of Minuteman through 2030, studies are required now to define appropriate changes to the C² infrastructure. The Air Force is determining the optimal way to extend the life of Minuteman

through 2030, maximizing mission capability, minimizing cost. Tension between tightening budgets and demands for flawless mission execution makes it imperative that every dollar spent on sustainment and life extension yields maximum benefit. These demands cannot be met by operating, maintaining, and securing the Minuteman system as has been done for decades. Throughout FY09, Boeing continued work under a competitively-awarded Air Force contract to study C² concepts. This effort leverages Boeing-funded R&D to analyze how net-enabling Minuteman reduces ownership costs, while providing enhanced capabilities and flexibility in operating, maintaining, and securing the weapon system, such as improved field communications and situation awareness. The FY10 President's Budget request included \$TBDM for Minuteman ICBM RDT&E, but did not fund the C² application programs. Funding for C² Applications in FY10 is required to conduct weapon system-level studies that characterize potential net-enabling concepts and their benefits to security and cost of ownership. These studies are required now to support the development of the ICBM 2030+ Roadmap.

Does the request meet an official DoD or service requirement? If so, cite official requirement documents and attach copies if available.

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Proposed bill and/or report language requested:

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Please list industry, academic, and government partners:

Will this request be submitted to other Senate or House offices? If so, please list:

Yes. Senator Hatch and Representative Rob Bishop

Have, or will, committee staff be approached regarding this project? If so, please list staff member AND committee.

Has funding previously been requested for this project?	NO
If yes, please fill out the following table as far as applicable	
Year and amount requested	Was funding provided? If so, amount:

Please provide a budget breakdown for the amount requested, including locations where funding will be spent:

0.400M USAF Project Management – Hill AFB, Utah 0.800M The Boeing Company – Huntington Beach, CA 2.400M The Boeing Company – Layton, Utah

ADDENDUM

Senator Robert F. Bennett Appropriation Disclosure Requirements Fiscal Year 2010

Under the new disclosure requirements announced at the beginning of the 111th Congress by the Senate and House Appropriations Committees, all Members of Congress are required to post on their websites each appropriations request they submit to the respective subcommittees. The information must include an explanation of the project, a justification for the request, and the requesting entity.

Senator Bennett is requiring any entity seeking federal funding to sign, date, and return this form to his office by April 6, 2009. By signing below, the requesting entity acknowledges that each Fiscal Year 2010 Appropriations Request form submitted to Senator Bennett's office, along with this addendum, will be posted on the senator's website in compliance with the new practice of the committee, and will therefore be available to the public. By signing this addendum, the requesting entity also acknowledges that the corresponding appropriations request is a priority for the city, county, council, or other organization that it represents. Each request will continue to be thoroughly reviewed by Senator Bennett's office and by the staff of the Appropriations Committee.

Going forward, Senator Bennett will continue to work to represent Utah's interests by ensuring Utah's priorities are adequately represented with congressionally directed spending.

Note: A signed addendum must be returned for **each appropriations request submitted** for Fiscal Year 2010.

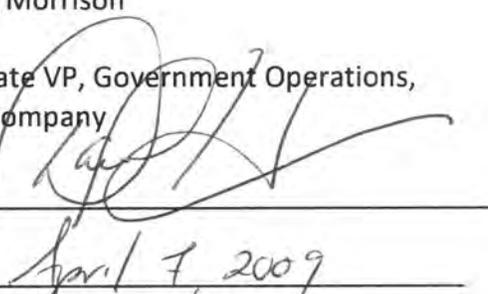
Project Name: ICBM Demonstration/Validation – Guidance

Head of the organization making request: Name: David Morrison

Title: Corporate VP, Government Operations,
The Boeing Company

Signature: _____

Date: _____



Handwritten signature of David Morrison over a horizontal line, and the date "April 7, 2009" handwritten below another horizontal line.

**Senator Robert Bennett FY2010
Defense Authorization and Appropriation Request Form**

If submitting multiple requests:	Priority #		of			Date:	March 2, 2009
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Company/organization:		The Boeing Company					
Address where majority of the work is to be performed:		5301 Bolsa Ave					
City:	Huntington Beach	State:	CA	Zip:	92647		
Corporate point of contact:	Rick Hartle						
Phone:							
Lobbyist point of contact	Steve Bachmann						
Phone:							

Project name:		ICBM Demonstration/Validation – Guidance					
Is this a request for an appropriation, authorization, or both?		Both					
Proposed funding agency:		Air Force					
Account:	RDT&E	Budget line number [from DoD exhibit O-1, P-1, or R-1]:			R-46 (FY09)		
Line title:	ICBM Dem/Val	Program Element number:			0603851F		
Is this project funded in the President’s budget request? (Yes or No):		TBD	If yes, amount:	\$ TBD			
Funding request:		\$ 4.0M					
Is the project in a Service Chief’s Unfunded Priority or Unfunded Requirements List? (Yes or No):		TBD					
If yes, ranking:		Amount:	\$				

DoD or service program manager:		Bruce Arnold			Phone:
Office name:	511 th ICBM Systems Sqd	Email:				
Other DoD point of contact/advocate:		Lt Col Scott Diezman			Phone:	
Office name:	SAF/USAL	Email:				

Purpose of project (limit to 250 words) and be as accurate and concise as possible– this language will be shared with the Senate Appropriations Committee. You may also submit a separate white paper with more detail on the project):

Through programs such as the Guidance Replacement Program (GRP), the Minuteman III system is being life-extended through 2020. However, the heart of the guidance system—the Inertial Measurement Unit (IMU)—was not replaced under GRP and remains a significant maintenance cost driver. Guidance Applications Program funding has focused on IMU instrument technology maturation. Additional funding is required

now for guidance system-level studies to evaluate IMU replacement options. As directed by Congress, the Air Force is working to determine the optimal way to extend the life of Minuteman through 2030, maximizing mission capability while minimizing cost. Growing requirements for increased security and cost avoidance necessitate changes to the Minuteman IMU, changes which must be studied now. Recent studies suggest that maturing technologies in instruments that will provide a more reliable IMU are nearing readiness for incorporation into Minuteman III. However, the seamless integration of the IMU necessitates that the next level of studies be conducted now to provide critical guidance system-level requirements to the instrument and IMU developers. Factors that must be explored and defined include: mechanical and electrical interfaces; system timing and synchronization; ground and flight software; and nuclear hardness. The study should focus on IMU/wafer concepts enabling component in-silo replacement without opening the launcher closure door or removing the warhead, keeping the launch facility as secure as possible by minimizing site penetration time.

Does the request meet an official DoD or service requirement? If so, cite official requirement documents and attach copies if available.

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Proposed bill and/or report language requested:

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Please list industry, academic, and government partners:

Will this request be submitted to other Senate or House offices? If so, please list:

Yes. Senator Hatch and Representative Rob Bishop

Have, or will, committee staff be approached regarding this project? If so, please list staff member AND committee.

Has funding previously been requested for this project?

No

If yes, please fill out the following table as far as applicable

--

Year and amount requested	Was funding provided? If so, amount:

Please provide a budget breakdown for the amount requested, including locations where funding will be spent:

0.600M USAF Project Management – Hill AFB, UT 0.800M The Boeing Company, Layton, UT 2.600M The Boeing Company, Huntington Beach, CA

ADDENDUM

**Senator Robert F. Bennett Appropriation Disclosure Requirements
Fiscal Year 2010**

Under the new disclosure requirements announced at the beginning of the 111th Congress by the Senate and House Appropriations Committees, all Members of Congress are required to post on their websites each appropriations request they submit to the respective subcommittees. The information must include an explanation of the project, a justification for the request, and the requesting entity.

Senator Bennett is requiring any entity seeking federal funding to sign, date, and return this form to his office by April 6, 2009. By signing below, the requesting entity acknowledges that each Fiscal Year 2010 Appropriations Request form submitted to Senator Bennett's office, along with this addendum, will be posted on the senator's website in compliance with the new practice of the committee, and will therefore be available to the public. By signing this addendum, the requesting entity also acknowledges that the corresponding appropriations request is a priority for the city, county, council, or other organization that it represents. Each request will continue to be thoroughly reviewed by Senator Bennett's office and by the staff of the Appropriations Committee.

Going forward, Senator Bennett will continue to work to represent Utah's interests by ensuring Utah's priorities are adequately represented with congressionally directed spending.

Note: A signed addendum must be returned for **each appropriations request submitted** for Fiscal Year 2010.

Project Name: Intercontinental Ballistic Missile – ICBM

Head of the organization making request: Name: Erin Pierce

Title: Director of Legislative Affairs

Signature: _____

Date: _____

4/6/09

**Senator Robert Bennett FY2010
Defense Authorization and Appropriation Request Form**

If submitting multiple requests:	Priority #	3	of	4		Date:	03-06-2009
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Company/organization:		Northrop Grumman Corporation					
Address where majority of the work is to be performed:		Four primary locations: Hill AFB, UT; F.E. Warren AFB, Wyoming (; Minot AFB, North Dakota; Malmstrom AFB, Montana.					
City:	Hill AFB	State:	UT	Zip:	84056		
Corporate point of contact:	Erin Pierce						
Phone:							
Lobbyist point of contact	Erin Pierce						
Phone:							

Project name:		Intercontinental Ballistic Missile - ICBM					
Is this a request for an appropriation, authorization, or both?		Appropriation					
Proposed funding agency:		Department of Defense					
Account:	Air Force, Missile Procurement	Budget line number [from DoD exhibit O-1, P-1, or R-1]:			Line 1, 11, 14		
Line title:	MISSILE REPLACEMENT EQ-BALLISTIC (1) MM III MODIFICATIONS (11) INITIAL SPARES/REPAIR PARTS (14)			Program Element number:			
Is this project funded in the President's budget request? (Yes or No):TBD.				If yes, amount:	\$ TBD.		
Funding request: Fully fund the President's FY10 Budget request.				\$			
Is the project in a Service Chief's Unfunded Priority or Unfunded Requirements List? (Yes or No):				N/A			
If yes, ranking:	N/A	Amount:	\$ N/A				

DoD or service program manager:		Brig. Gen Everett Thomas,			Phone:	
Office name:	Air Force Nuclear Weapons Center			Email:		
Other DoD point of contact/advocate:				Phone:		
Office name:				Email:		

Purpose of project (limit to 250 words) and be as accurate and concise as possible-- this language will be shared with the Senate Appropriations Committee. You may also submit a separate white paper with more detail on the project):

This program funds modifications to extend the operational capability of the Minuteman ICBM. ICBMs are an important part of America's primary strategic deterrence capability. Modernization efforts will ensure the continuing readiness of this critical weapons system. The ICBM program is managed at Hill AFB, UT with operational bases at F.E. Warren AFB, WY, Malmstrom AFB, MT, and Minot AFB, ND.

Does the request meet an official DoD or service requirement? If so, cite official requirement documents and attach copies if available.

The FY07 National Defense Authorization Act (NDAA) signed by the President directs maintaining a force of 450 Minuteman III missiles to 2030. Minuteman systems are undergoing modification programs to ensure their accuracy, availability, reliability and survivability as our land-based nuclear deterrent through 2030.

Proposed bill and/or report language requested:

N/A

Please list industry, academic, and government partners:

N/A

Will this request be submitted to other Senate or House offices? If so, please list:

Yes. Sen. Michael Bennet (D-CO), Rep. Doug Lamborn (R-CO), Sen. Max Baucus (D-MT), Sen. Jon Tester (D-MT),

Rep. Dennis Rehberg (R-MT), Sen. Ben Nelson (D-NE), Rep. Lee Terry (R-NE), Rep. Adrian Smith (R-NE),

Rep. Earl Pomeroy (D-ND), Sen. Robert Bennett (R-UT), Rep. Rob Bishop (R-UT), Sen. Mike Enzi (R-WY),

Sen. John Barrasso (R-WY)

Have, or will, committee staff be approached regarding this project? If so, please list staff member AND committee.

--

Has funding previously been requested for this project?	Yes.
If yes, please fill out the following table as far as applicable	
Year and amount requested	Was funding provided? If so, amount:
FY09 Missile Replacement Equipment, Line 1: \$26.658M MM III Modifications, Line 11: \$296.354M Missile Spares & Repair Parts, Line 14: \$26.923M	\$26.658M \$296.354M \$26.923M
FY08 Missile Replacement Equipment, Line 1: \$26.446M MM III Modifications, Line 11: \$505.395M Missile Spares & Repair Parts, Line 14: \$46.675M	\$26.446M \$515.895M \$46.675M
FY07 Missile Replacement Equipment, Line 1: \$34.344M MM III Modifications, Line 11: \$691.657M Missile Spares & Repair Parts, Line 14: \$50.602M	\$34.344M \$651.257M \$50.602M
FY06 Missile Replacement Equipment, Line 1: \$41.635 MM III Modifications, Line 11: \$672.257M Missile Spares & Repair Parts, Line 14: \$77.594M	\$38.635M \$676.633M \$77.594M
FY05 Missile Replacement Equipment, Line 1: \$23.643 MM III Modifications, Line 11: \$640.760 Missile Spares & Repair Parts, Line 14: \$62.110	\$23.643M \$648.260M \$63.810M

Please provide a budget breakdown for the amount requested, including locations where funding will be spent:

According to the FY09 President's budget request, projected FY10 funding in the accounts identified below will total approximately \$341.3M. Additional funding is budgeted across the FYDP. ** Procurement and RDTE

Missile Replacement Equipment, USAF Missile Procurement, Line 1: \$27.4M

MM III Modifications, USAF Missile Procurement, Line 11: \$159.6M

Missile Spares & Repair Parts, USAF Missile Procurement, Line 14: \$65.0M

ICBM Dem/Val, USAF RDT&E, PE 0603851F, Line 46: \$67.4M

RSLP (Space), USAF RDT&E, PE 0605860F, Line 99: \$15.1M

MEECN, USAF RDT&E PE 0303131F, Line 161, Project 4610 – Minuteman MEECN Program: \$6.8M

ADDENDUM

**Senator Robert F. Bennett Appropriation Disclosure Requirements
Fiscal Year 2010**

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Senator Bennett is requiring any entity seeking federal funding to sign, date, and return this form to his office by April 6, 2009. By signing below, the requesting entity acknowledges that each Fiscal Year 2010 Appropriations Request form submitted to Senator Bennett's office, along with this addendum, will be posted on the senator's website in compliance with the new practice of the committee, and will therefore be available to the public. By signing this addendum, the requesting entity also acknowledges that the corresponding appropriations request is a priority for the city, county, council, or other organization that it represents. Each request will continue to be thoroughly reviewed by Senator Bennett's office and by the staff of the Appropriations Committee.

Going forward, Senator Bennett will continue to work to represent Utah's interests by ensuring Utah's priorities are adequately represented with congressionally directed spending.

Note: A signed addendum must be returned for **each appropriations request submitted** for Fiscal Year 2010.

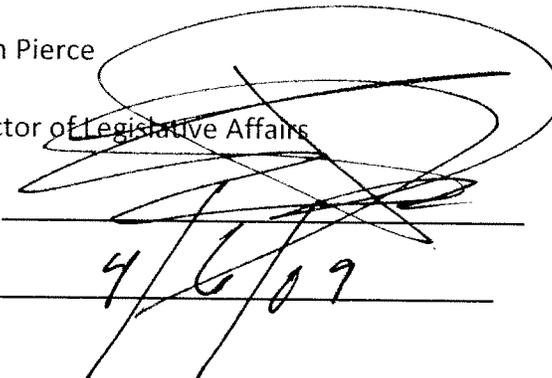
Project Name: Intercontinental Ballistic Missile – ICBM

Head of the organization making request: Name: Erin Pierce

Title: Director of Legislative Affairs

Signature: _____

Date: _____


4/6/09

Senator Robert Bennett FY2010 Defense Authorization and Appropriation Request Form

If submitting multiple requests:	Priority #	4	of	4		Date:	03-06-2009
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Company/organization:		Northrop Grumman Corporation					
Address where majority of the work is to be performed:		Four primary locations: Hill AFB, UT; F.E. Warren AFB, Wyoming (; Minot AFB, North Dakota; Malmstrom AFB, Montana.					
City:	Hill AFB	State:	UT	Zip:	84056		
Corporate point of contact:	Erin Pierce						
Phone:							
Lobbyist point of contact	Erin Pierce						
Phone:							

Project name:		Intercontinental Ballistic Missile - ICBM					
Is this a request for an appropriation, authorization, or both?		Appropriation					
Proposed funding agency:		Department of Defense					
Account:	Air Force, RDT&E	Budget line number [from DoD exhibit O-1, P-1, or R-1]:			46, 92, 99, 161		
Line title:	ICBM Dem/Val ICBM EMD RSLP (Space) MEECN	Program Element number:			PE 0603851F, PE 0604851F, PE 0605860F, PE 0303131F		
Is this project funded in the President's budget request? (Yes or No):TBD.				If yes, amount:	\$ TBD.		
Funding request: Fully fund the President's FY10 Budget request.				\$			
Is the project in a Service Chief's Unfunded Priority or Unfunded Requirements List? (Yes or No):				N/A			
If yes, ranking:	N/A	Amount:	\$ N/A				

DoD or service program manager:		Brig. Gen Everett Thomas,			Phone:	
Office name:	Air Force Nuclear Weapons Center	Email:				
Other DoD point of contact/advocate:					Phone:	
Office name:			Email:			

Purpose of project (limit to 250 words) and be as accurate and concise as possible– this language will be shared with the Senate Appropriations Committee. You may also submit a separate white paper with more detail on the project):

This program funds modifications to extend the operational capability of the Minuteman ICBM. ICBMs are an important part of America's primary strategic deterrence capability. Modernization efforts will ensure the continuing readiness of this critical weapons system. The ICBM program is managed at Hill AFB, UT with operational bases at F.E. Warren AFB, WY, Malmstrom AFB, MT, and Minot AFB, ND.

Does the request meet an official DoD or service requirement? If so, cite official requirement documents and attach copies if available.

The FY07 National Defense Authorization Act (NDAA) signed by the President directs maintaining a force of 450 Minuteman III missiles to 2030. Minuteman systems are undergoing modification programs to ensure their accuracy, availability, reliability and survivability as our land-based nuclear deterrent through 2030.

Proposed bill and/or report language requested:

N/A

Please list industry, academic, and government partners:

N/A

Will this request be submitted to other Senate or House offices? If so, please list:

Yes. Sen. Michael Bennet (D-CO), Rep. Doug Lamborn (R-CO), Sen. Max Baucus (D-MT), Sen. Jon Tester (D-MT),

Rep. Dennis Rehberg (R-MT), Sen. Ben Nelson (D-NE), Rep. Lee Terry (R-NE), Rep. Adrian Smith (R-NE),

Rep. Earl Pomeroy (D-ND), Sen. Robert Bennett (R-UT), Rep. Rob Bishop (R-UT), Sen. Mike Enzi (R-WY),

Sen. John Barrasso (R-WY)

Have, or will, committee staff be approached regarding this project? If so, please list staff member AND committee.

Has funding previously been requested for this project?	Yes.
If yes, please fill out the following table as far as applicable	
Year and amount requested	Was funding provided? If so, amount:
FY 2009: ICBM Dem/Val PE 0603851F: \$65.629M ICBM EMD PE 0604851F: \$0.0M RSLP (Space) PE 0605860F: \$14.895M MEECN, 4610 PE 0303131F: \$29.887M	\$70.429M \$0.0M \$14.895M \$29.887M
FY 2008: ICBM Dem/Val PE 0603851F: \$26.519M ICBM EMD PE 0604851F: \$0.0M RSLP (Space) PE 0605860F: \$15.145M MEECN, 4610 PE 0303131F: \$36.520M	\$31.319M \$0.0M \$19.145M \$21.5M
FY 2007: ICBM Dem/Val PE 0603851F: \$45.538M ICBM EMD PE 0604851F: \$0.0M RSLP (Space) PE 0605860F: \$14.704M MEECN, 4610 PE 0303131F: \$22.633M	\$61.138M \$0.0M \$26.104M \$22.633M
FY 2006: ICBM Dem/Val PE 0603851F: \$44.672M ICBM EMD PE 0604851F: \$32.415M RSLP (Space) PE 0605860F: \$13.773M MEECN, 4610 PE 0303131F: \$11.006M	\$57.922M \$32.415M \$26.773M \$2.6M
FY 2005:	

ICBM Dem/Val PE 0603851F: \$70.503M	\$70.503M
ICBM EMD PE 0604851F: \$91.687M	\$91.687M
RSLP (Space) PE 0605860F: \$7.984M	\$22.984M
MEECN, 4610 PE 0303131F: \$1.5M	\$1.5M

Please provide a budget breakdown for the amount requested, including locations where funding will be spent:

According to the FY09 President's budget request, projected FY10 funding in the accounts identified below will total approximately \$341.3M. Additional funding is budgeted across the FYDP. ** Procurement and RDTE

Missile Replacement Equipment, USAF Missile Procurement, Line 1: \$27.4M
MM III Modifications, USAF Missile Procurement, Line 11: \$159.6M
Missile Spares & Repair Parts, USAF Missile Procurement, Line 14: \$65.0M
ICBM Dem/Val, USAF RDT&E, PE 0603851F, Line 46: \$67.4M
RSLP (Space), USAF RDT&E, PE 0605860F, Line 99: \$15.1M
MEECN, USAF RDT&E PE 0303131F, Line 161, Project 4610 – Minuteman MEECN Program: \$6.8M

ADDENDUM

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Fiscal Year 2010**

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Senator Bennett is requiring any entity seeking federal funding to sign, date, and return this form to his office by April 6, 2009. By signing below, the requesting entity acknowledges that each Fiscal Year 2010 Appropriations Request form submitted to Senator Bennett's office, along with this addendum, will be posted on the senator's website in compliance with the new practice of the committee, and will therefore be available to the public. By signing this addendum, the requesting entity also acknowledges that the corresponding appropriations request is a priority for the city, county, council, or other organization that it represents. Each request will continue to be thoroughly reviewed by Senator Bennett's office and by the staff of the Appropriations Committee.

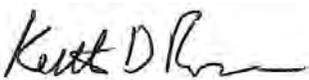
Going forward, Senator Bennett will continue to work to represent Utah's interests by ensuring Utah's priorities are adequately represented with congressionally directed spending.

Note: A signed addendum must be returned for **each appropriations request submitted** for Fiscal Year 2010.

Project Name: ICBM Solid Rocket Motor Life Extension

Head of the organization making request: Name: Keith Ross

Title: Senior Vice President, General Counsel

Signature: 

Date: April 2, 2009

Senator Robert Bennett FY2010 Defense Authorization and Appropriation Request Form

If submitting multiple requests:	Priority #	1	of	4		Date:	3/06/2009
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Company/organization:		Alliant Techsystems (ATK)					
Address where majority of the work is to be performed:		9160 North Hwy 83					
City:	Corinne	State:	UT	Zip:	84307		
Corporate point of contact:	Chad Fairchild						
Phone:							
Lobbyist point of contact:	Erin Neal						
Phone:							

Project name:		v					
Is this a request for an appropriation, authorization, or both?		Policy issue; not a funding request					
Proposed funding agency:		Department of Defense					
Account:	Missile Procurement, Air Force	Budget line number [from DoD exhibit O-1, P-1, or R-1]:			TBD		
Line title:	Minuteman III Modifications	Program Element number:		N/A			
Is this project funded in the President's budget request? (Yes or No):		Yes	If yes, amount:	TBD			
Funding request:		<p>\$ N/A: Our request is two-fold: (1) Support anticipated Administration requested funding to enable a minimum of six ICBM solid rocket motor sets in FY2010 and throughout the FYDP, and (2) assure a smooth transition from FY2009's Propulsion Replacement Program, to the FY2010 ICBM Solid Rocket Motor Life Extension program, to avoid full closeout and a cold restart, thus saving significant funds and avoiding unnecessary layoffs. Both of these efforts may require specific directions to the Air Force about congressional intent.</p>					
Is the project in a Service Chief's Unfunded Priority or Unfunded Requirements List? (Yes or No):		TBD (was on FY2009 UFR)					
If yes, ranking:	Page 4 (see attached)	Amount:	\$ 31,000,000				

DoD or service program manager:		Col James Fisher			Phone:	
Office name:	526 th ICBM Systems Squadron, HAFB, UT			Email:		
Other DoD point of contact/advocate:		Gen. C. Robert Kehler			Phone:	
Office name:	U.S. Space Command (AFSPC/CC)			Email:		

Purpose of project (limit to 250 words and be as accurate and concise as possible— this language will be shared with the Senate Appropriations Committee. You may also submit a separate white paper with more detail on the project):

Current FY2009 plans call for Minuteman III (MMIII) motor production to cease, before enough aging surveillance data can be collected and analyzed to establish potential life-limiting trends. Specifically, the last Stage 1 motor will be

delivered in March 2009, and the last Stage 2 and 3 motors will be delivered in August 2009. After these dates, if any problems are later found with these deployed systems, industry may be incapable of addressing them. As such, the Air Force opted to specially target known MMIII reliability issues using an incremental modernization effort while minimizing new technology insertion that would have driven extensive flight testing. To comply with 2007 NDAA direction extending MMIII through 2030, the Air Force will continue surveillance/sustainment efforts to identify/address emerging issues as systems age past their planned operational life while attempting to reduce total cost of ownership. The Air Force plans to keep the MMIII system operationally deployed through 2030, for a total deployed service life of over 30 years. However, no solid rocket motor weapon system has achieved 20 years of operation without experiencing age related issues. A continuous ICBM solid rocket motor warm line production program will provide that basis for sustaining and maintain key manufacturing, facility and material skill sets. It will provide an available and experienced workforce to address propulsion issues that arise in the current weapon system. This approach will provide the fundamentals to retain and sustain necessary skill sets.

Does the request meet an official DoD or service requirement? If so, cite official requirement documents and attach copies if available.

In December 2008, the Office of the Secretary of Defense issued a Program Decision Memorandum (PDM-3) calling for the initiation of a Minuteman III Solid-Rocket Motor Life Extension Production program in FY2010. (This document is classified; but, your office could ask to see a copy if you wish.)

Proposed bill and/or report language requested:

Support anticipated Administration requested funding to enable a minimum of six ICBM solid rocket motor sets in FY2010 and throughout the FYDP. Assure a smooth transition from FY2009's Propulsion Replacement Program, to the FY2010 ICBM Solid Rocket Motor Life Extension program, to avoid full closeout and a cold restart, thus saving significant funds and avoiding unnecessary layoffs. These efforts may require specific directions to the Air Force about congressional intent.

Please list industry, academic, and government partners:

ATK Space Systems, Promontory and Magna, Utah; Minot Air Force Base, Minot, North Dakota; American Pacific Corporation (AmPac), Las Vegas, Nevada and Cedar City, Utah; Francis E. Warren Air Force Base, Cheyenne, Wyoming; Malstrom Air Force Base, Great Falls, Montana; Air Force Space Command, Colorado Springs, Colorado; U.S. Strategic Command, Offutt Air Force Base, Omaha, Nebraska; Hill Air Force Base, Ogden, Utah

Will this request be submitted to other Senate or House offices? If so, please list:

Senators Conrad, Dorgan, Ben Nelson, Barasso, Baucus, Michael Bennet, Enzi, Sessions, Tester, Hatch, Johanns, Inhofe, Bill Nelson, Kyl, Mark Udall

Representatives Rob Bishop, Chaffetz,, Franks, Matheson, Rehberg, Tauscher

Have, or will, committee staff be approached regarding this project? If so, please list staff member AND committee.

Absolutely – Madelyn Creedon and TBD (SASC), Nicole DiResta and Brian Potts (SAC-D)

Has funding previously been requested for this project?

No—only policy requests have been made.

Please provide a budget breakdown for the amount requested, including locations where funding will be spent:

GFY	10	11	12	13	14	15	Total
MMLE	43M	44.5M	46.1M	47.7M	49.5M	50.5M	281.3M