

Fiscal Year 2009 (FY 09) Defense Budget: Programs of Interest

by Beau Rizzo, CDI Research Assistant

Bill Status: The 110th Congress followed an unusual procedure regarding the FY 09 Authorizations and Appropriations Bills. The House and Senate each passed their own version of an authorization bill. The House passed its version, H.R. 5658, on May 22, 2008, and the Senate passed its version, S.3001, on Sept. 17, 2008. A compromise authorization bill was then worked out informally in the House and Senate Armed Services Committees as an amended version of the Senate-passed Resolution, S. 3001. The compromise authorization was passed by the House on Sept. 24, 2008. The Senate then passed the compromise authorization bill on Sept. 27, 2008. The House and Senate Defense Appropriations Subcommittees each marked up their own version of the FY 09 Appropriations Bill, neither of which was released to the public. Furthermore, neither the House nor Senate considered an Appropriations bill on the floor or held full committee markups. A compromise version of the subcommittee bills, essentially a conference agreement of the FY 09 Defense Appropriations Bill, was instead included in the FY 09 Continuing Resolution, H.R. 2638, as Division C, Department of Defense Appropriations Act, 2009. The House passed the bill on Sept. 24, 2008, and the Senate passed it on Sept. 27, 2008.¹

All Figures in millions of dollars

Program (Acronym) (Agency)	Admin. Request₂	House Auth.³	Senate Authorization₄	Compromise Authorization⁵	House Approp.⁶	Senate Approp.⁷	Continuing Resolution⁸
Space Test Bed (MDA)	\$10	\$0	\$0	\$0	-	-	\$5 Appropriators provided funds for a space based interceptor study ⁹ . Study is to be conducted by an independent organization. outside of any associated government agencies or defense contractors.
Near Field Infrared Experiment (NFIRE) (MDA)	\$9	Appears to have been authorized in full ¹⁰	Appears to have been authorized in full	Appears to have been authorized in full	Appears to have been fully appropriated ¹¹	Appears to have been fully appropriated	Appears to have been fully appropriated
Experimental	\$29.3 ¹²	Appears to	Appears to	Appears to have	Appears to	Appears to	Appears to have

Satellite Series (XSS) (USAF)		have been authorized in full	have been authorized in full	been authorized in full	have been fully appropriated	have been fully appropriated	been fully appropriated
Autonomous Nanosatellite Guardian for Evaluating Local Space (ANGELS) (USAF)	\$6.3 ¹³	Appears to have been authorized in full	Appears to have been authorized in full	Appears to have been authorized in full	Appears to have been fully appropriated	Appears to have been fully appropriated	Appears to have been fully appropriated
Starfire Optical Range (USAF)	\$44.5 ¹⁴	Appears to have been authorized in full	Appears to have been authorized in full	Appears to have been authorized in full	Appears to have been fully appropriated	Appears to have been fully appropriated	Appears to have been fully appropriated
Terminal High-Altitude Area Defense (THAAD) (MDA)	\$865	\$964	\$1,012	\$1,012	Appears to have been fully appropriated	Appears to have been fully appropriated	\$960
Ground-Based Midcourse Defense (GMD) (MDA)	\$2,077	\$1,894	\$2,076	\$1,980 ¹⁵	Appears to have been fully appropriated	Appears to have been fully appropriated	\$1,512
GMD European Site (MDA)	\$712	\$341.2 ¹⁶	\$712	\$465.8 ¹⁷	Appears to have been fully appropriated	\$467 ¹⁸	\$467
Aegis BMD (MDA)	\$1,157	\$1,121	\$1,180	\$1,177	Appears to have been fully appropriated	Appears to have been fully appropriated	\$1,117
Airborne Laser (ABL) (MDA)	\$421	\$378.6	\$375.4	\$391.7. Conference Agreement stipulated that SEC-DEF must initiate an independent study into the feasibility and practicality of Airborne Laser System. Funding for second aircraft dependent on test	Appears to have been fully appropriated	Appears to have been fully appropriated	\$402.1

				results. \$3.5 to be allocated for study. ¹⁹			
Kinetic Energy Interceptor (KEI) (MDA)	\$386.8	\$286.8	\$341.8	\$341.8. Conference stipulated that SEC-DEF must initiate an independent study into the feasibility and practicality of the KEI compared to other missile defense systems.	Appears to have followed the Compromise Authorization	Appears to have followed the Compromise Authorization	Appears to have followed the Compromise Authorization
Multiple Kill Vehicle (MKV) (MDA)	\$354.5	\$254.4	\$304.5	\$304.5	Appears to have been fully appropriated	Appears to have been fully appropriated	\$284.5
Tiny, Independent, Coordinating Spacecraft (TICS) (DARPA)	- ²⁰	-	-	-	-	-	-
Falcon (DARPA)	\$25.0	Appears to have been authorized in full	Appears to have been authorized in full	Appears to have been authorized in full	Appears to have been fully appropriated	Appears to have been fully appropriated	Appears to have been fully appropriated
Blackswift Test Bed (DARPA)	\$70.0	Appears to have been authorized in full	Cut funding by \$40.0	Conf. agreed to \$40.0 cut in funding	Appears to have followed the Compromise Authorization	Appears to have followed the Compromise Authorization	Cancelled by DARPA ²¹
Micro Satellite Demonstration Science and Technology Program (MiDSTEP) (DARPA)	\$8.0	Appears to have been authorized in full.	Appears to have been authorized in full.	Appears to have been authorized in full.	Appears to have been fully appropriated	Appears to have been fully appropriated	Appears to have been fully appropriated
System F6 (DARPA)	\$37.3	Appears to have been authorized in full.	Appears to have been authorized in full.	Appears to have been authorized in full.	Appears to have been fully appropriated	Appears to have been fully appropriated	Appears to have been fully appropriated
Front End Robotics Enabling New-Term Demonstration (FREND) (DARPA)	\$10.7	Appears to have been authorized in full.	Appears to have been authorized in full.	Appears to have been authorized in full.	Appears to have been fully appropriated	Appears to have been fully appropriated	Appears to have been fully appropriated
Fast Access Spacecraft	\$12.0	Appears to have been	Appears to have been	Appears to have been authorized	Appears to have been	Appears to have been	Appears to have been fully

Testbed (FAST) (DARPA)		authorized in full.	authorized in full.	in full.	fully appropriated	fully appropriated	appropriated
Nano Payload Delivery (NPD) (DARPA)	\$6.0	Appears to have been authorized in full.	Appears to have been authorized in full.	Appears to have been authorized in full.	Appears to have been fully appropriated	Appears to have been fully appropriated	Appears to have been fully appropriated
High Delta-V Experiment (HiDVE) (DARPA)	\$7.0	Appears to have been authorized in full.	Appears to have been authorized in full.	Appears to have been authorized in full.	Appears to have been fully appropriated	Appears to have been fully appropriated	Appears to have been fully appropriated
Micro Electro-Static Propulsion (MEP) (DARPA)	Cancelled in FY2008	\$0	\$0	\$0	\$0	\$0	\$0
Space Control Technology (USAF)	\$76,845	\$76,845	\$81,845	\$76,845	Appears to have been fully appropriate	Appears to have been fully appropriated	\$86,645 ²²

¹ CRS Report for Congress, *Defense: FY2009 Authorizations and Appropriations*, Nov. 3, 2008
<http://www.fas.org/sgp/crs/natsec/RL34473.pdf>

² Department of Defense, Office of the Under Secretary of Defense (Comptroller):
 FY 2009 Missile Defense Agency (MDA) Exhibit R-2 RDT&E Budget Item Justification, February 2008
http://www.defenselink.mil/comptroller/defbudget/fy2009/budget_justification/index.html#

FY 2009 Air Force Exhibit R-2A RDT&E Project Justification, February 2008
<http://www.saffm.hq.af.mil/budget/>

FY 2009 Defense Advanced Research Projects Agency (DARPA), Exhibit R-2A RDT&E Project Justification, February 2008,
http://www.defenselink.mil/comptroller/defbudget/fy2009/budget_justification/pdfs/03_RDT_and_E/Vol_1_DARPA/DARPA%20PB09%20RDTE%20Part%201.pdf,

³ Line Item Funding Tables for FY 2009 Defense Authorization Agreement, Sept. 23, 2008
<http://armedservices.house.gov/pdfs/fy09ndaa/FY09conf/FY2009NDAAFundingTables.pdf>

⁴ Line Item Funding Tables for FY 2009 Defense Authorization Agreement, Sept. 23, 2008
<http://armedservices.house.gov/pdfs/fy09ndaa/FY09conf/FY2009NDAAFundingTables.pdf>

⁵ This Authorization Agreement was the compromise agreement between the House and Senate Authorization bills that was worked out informally in the House and Senate Armed Services Committees. Figures given are from the Line Item Funding Tables unless otherwise noted.

<http://armedservices.house.gov/pdfs/fy09ndaa/FY09conf/FY2009NDAAFundingTables.pdf> date?

⁶ The House Defense Appropriations Subcommittee never released to the public the text of the bill that it passed for FY2009 defense appropriations.

<http://www.fas.org/sgp/crs/natsec/RL34473.pdf>

⁷ The Senate Defense Appropriations Subcommittee never released to the public the text of the bill that it passed for FY2009 defense appropriations.

<http://www.fas.org/sgp/crs/natsec/RL34473.pdf>

⁸ This Continuing Resolution is the compromise version of the House and Senate Defense Appropriations Subcommittee bills. Figures in this column are from the explanatory statement regarding the continuing resolution given by Rep. David R. Obey, D-WI, Chairman of the House Committee on Appropriations resolution.

http://www.rules.house.gov/110/text/hr2638cr_hamndsamndjes.pdf

⁹Samson, Victoria, "Space-Based Missile Defense: Yes? No? Maybe So?," Res Communis, July 30, 2008;

<http://www.cdi.org/program/issue/document.cfm?DocumentID=4384&IssueID=77&StartRow=1&ListRows=10&appendURL=&Orderby=DateLastUpdated&ProgramID=6&issueID=77>

¹⁰ While funding for these programs is not explicitly listed in the funding tables report, the fact that no changes are listed implies that the requested funding has been authorized in full.

¹¹ While funding for these programs is not explicitly listed in any Congressional report, the fact that no changes are listed implies that the funds have been appropriated according to the previously authorized amounts.

¹² The Experimental Satellite Series was funded under the “3834 Integrated Space Technology Demonstrations” project. It must be noted that certain elements of XSS are funded under the project, “2181 Spacecraft Payloads. Both are included in the Advanced Spacecraft Technology program, PE 0603401F, U.S. Air Force Budget Materials.

¹³ The Autonomous Nanosatellite Guardian for Evaluating Local Space is funded under the 5018 Spacecraft Protection Technology project within the Space Technology Program, PE 0602601F, U.S. Air Force Budget Materials.

¹⁴ This figure represents the total PE budget request. It should be noted that this program also includes projects not specifically associated with Starfire such as tactical lasers systems and other research. One project of concern included in the program that is associated with Starfire is the Advanced Optics and Laser Space Technology initiative with a budget request of \$16.59 million.

¹⁵ The cut in funding is most likely attributed to the compromise authorization bill stipulating that an overall assessment of the national ballistic missile defense strategy must be conducted to determine if the current focus of the missile defense policy is appropriate.

<http://thomas.loc.gov/cgi-bin/query/F?c110:8:/temp/~c1107v8LTO:e105266:>

¹⁶ HR 5658 National Defense Authorization Act Summary, May 15, 2008
<http://armedservices.house.gov/pdfs/fy09ndaa/FINAL051508.pdf>

¹⁷ S. 3001 Duncan Hunter FY 2009 National Defense Authorization Act Summary, Sept. 24, 2008
<http://armedservices.house.gov/pdfs/fy09ndaa/FY09conf/ConferencePressRelease.pdf>

¹⁸ Summary of FY 2009 DOD Appropriations, U.S. Senate Committee on Appropriations, Sept. 10, 2008
[http://appropriations.senate.gov/News/2008_09_10_Summary_of_FY_2009_Defense_Appropriations\(Subcommittee_Mark\).pdf?CFID=38277515&CFTOKEN=94766170](http://appropriations.senate.gov/News/2008_09_10_Summary_of_FY_2009_Defense_Appropriations(Subcommittee_Mark).pdf?CFID=38277515&CFTOKEN=94766170)

¹⁹ Duncan Hunter National Defense Authorization Act for Fiscal Year 2009, S. 3001: Sec 232 and Sec 235, Sept. 27, 2008 <http://thomas.loc.gov/cgi-bin/query/F?c110:5:/temp/~c110q9wG7n:e105266:Date?>

²⁰ While this program was included in the FY 08 Defense Budget Request under PE 0603287E, the TICS program was not included in the FY 09 request. This was confirmed by the Defense Advanced Research Projects Agency. The program appears to have been left out of this year’s budget request.

²¹ Due to funding cuts by Congress, DARPA announced that it was unable to proceed with the development of the Blackswift Test Bed.

²² An additional \$9.8 million was added for COTS Technology for Situational Space Awareness, Multi-mission Deployable Optical System, and Space Situational Awareness-TCN Demonstration and Deployment assets.